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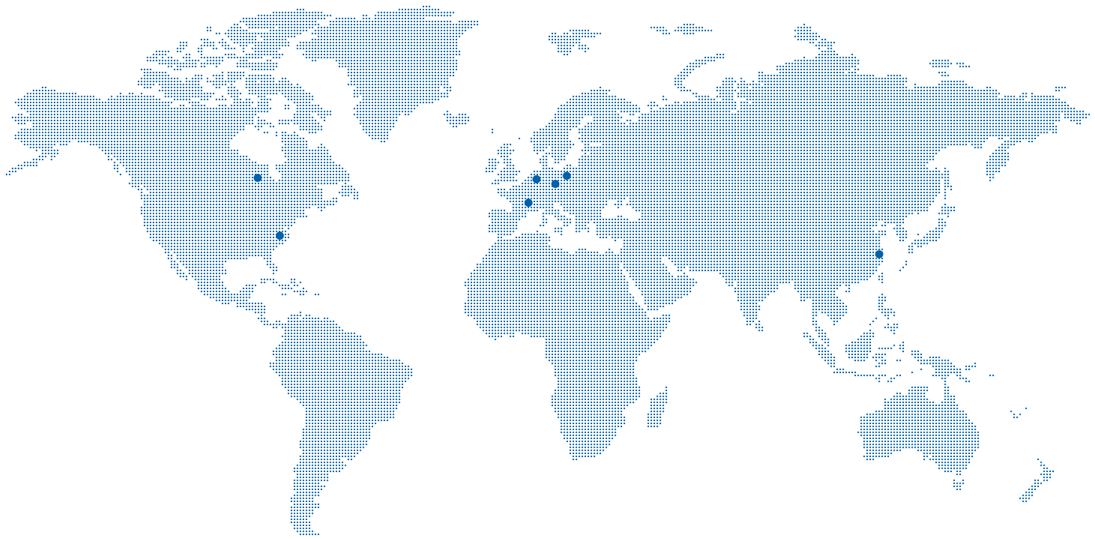

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GB

# D-SUB/IP67 D-SUB CONNECTORS

D-SUB/IP67 D-SUB CONNECTORS

TECHNOLOGY IN CONNECTORS™

IP67
Hoods
POWER
Combination D-SUB
MECH. ENGINEERING
Filter D-SUB/IP67 D-SUB
COMMUNICATIONS
Conec SlimCon
STANDARD
customized

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# CONEC®

## TECHNOLOGY IN CONNECTORS™

For more than 40 years, CONEC Elektronische Bauelemente GmbH has been developing, producing and marketing high-quality connectors, patch cable and single ended cable as well as enclosure technology.

CONEC products are used in automation, telecommunications and energy technology, machine manufacturing, agriculture and medical technology, transportation and the aviation industry.

The headquarters in Lippstadt has a large research and development department, its own tool-making department, a CNC-turning department and a synthetics injection moulding plant.

As part of the Amphenol Group, CONEC participates in the growth and development opportunities of a globally active group and at the same time acts flexibly and quickly as a medium-sized company in order to optimally adapt to changing customer needs.

CONEC Germany, Lippstadt

CONEC Canada, Brampton

CONEC USA, Garner

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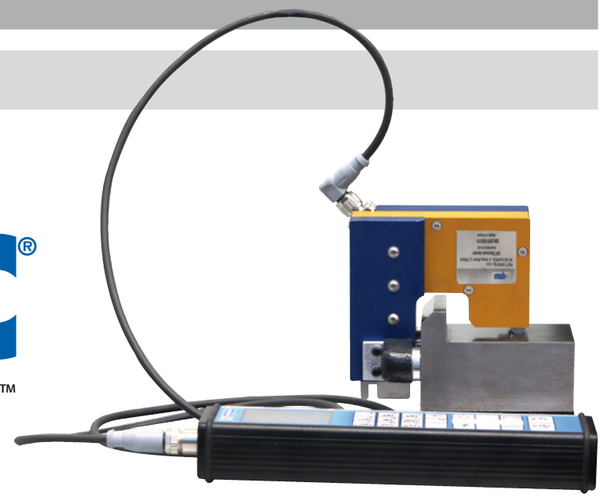
CUSTOMIZED PRODUCTS

Application-specific-solutions



# CONEC®

## TECHNOLOGY IN CONNECTORS™

Despite a comprehensive product portfolio of industrial connectors, customer requirements cannot always be satisfied from standard products. In such cases, it is essential to develop custom specific solutions for mechanical and plant engineering as quickly as possible.

Are you looking for application-specific solutions?
The experienced CONEC design team creates solutions for you, for example:

- Special interconnect solutions to customer specifications
- Prototypes and small series production batches
- Connectors with increased IP ratings for harsh environments

In addition to a variety of connectors for all current standards, our particular strength is the integrated moulding of components and assemblies and the development of customized solutions.

CONEC is a global player with its own subsidiaries and/or production sites in Canada, the USA, China, the Czech Republic, Poland and France.

The company's quality management ensures high quality by applying the international standards DIN EN ISO 9001. Depending on the product family, CONEC industrial connectors are tested and approved in accordance with UL, CSA or VDE.

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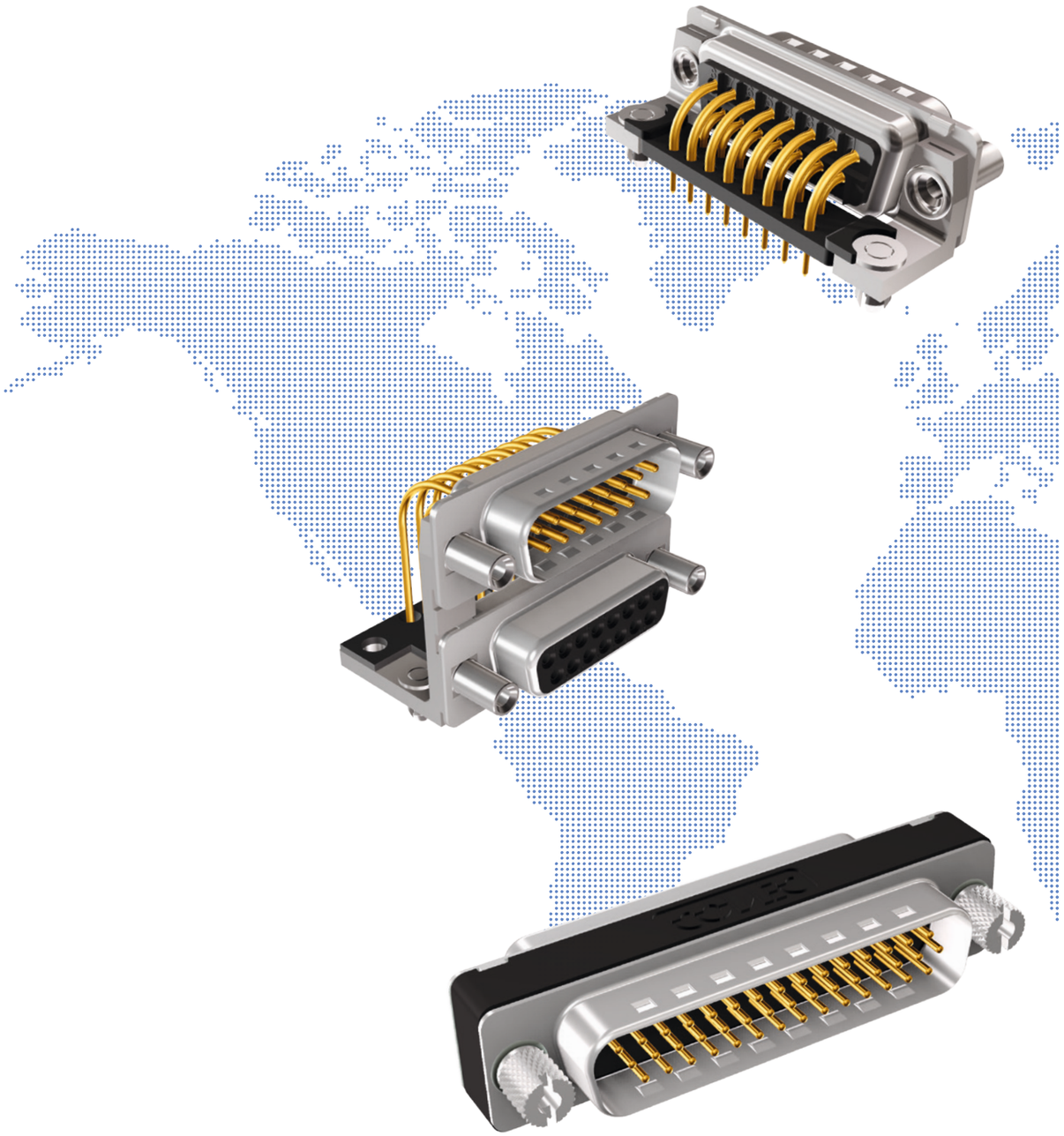
Section 1

# D-SUB Connectors



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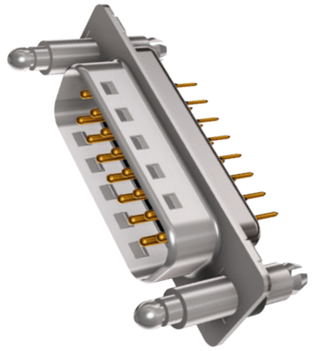

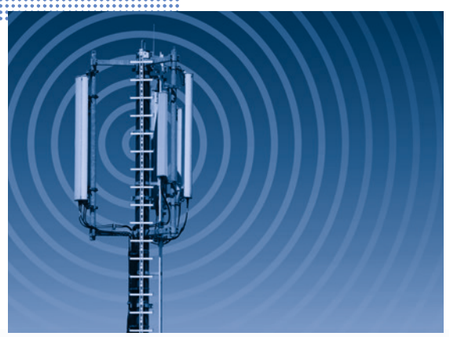



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# D-SUB Connectors

## Product specification

| Basic material | D-SUB<br>9-, 15-, 25-, 37-, 50-pos. | D-SUB High Density<br>15-, 26-, 44-, 62-, 78-pos. |
|---|---|---|
| Contact | Copper alloy | |
| Contact plating | Gold over nickel | |
| Insulator | PBT GF UL 94 V-0 | |
| Shell | Steel tin plated / nickel plated (on request brass tin plated or stainless steel) | |

| Technical Data | | |
|---|---|---|
| Test voltage | 1000 V, 50 Hz, for 1 Minute | |
| Working voltage | 125 V AC/DC<br>depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1 | 60 V AC/DC |
| Current rating | 7.5 A (UL) / 5 A (CSA, VDE) | 3 A (UL, VDE) / 2.5 A (CSA) |
| Contact resistance | max. 10 mΩ prior to stressing ΔR max. 10 mΩ after stressing per IEC 60807-2 | |
| Insulation resistance | ≥ 5 GΩ | |
| Clearance and creepage distance | Contact - Contact ≥ 1.0 mm / 0.04"<br>Contact - earth ≥ 1.2 mm / 0.047" | ≥ 0.6 mm / 0.024" |
| Operating temperature | -55 °C to +125 °C | |
| Mating and unmating forces | 9-pos. ≤ 30 N<br>15-pos. ≤ 50 N<br>25-pos. ≤ 83 N<br>37-pos. ≤ 123 N<br>50-pos. ≤ 167 N | 15-pos. ≤ 50 N<br>26-pos. ≤ 84 N<br>44-pos. ≤ 120 N<br>62-pos. ≤ 170 N<br>78-pos. ≤ 200 N |
| Quality class | A = Quality class 3 = 50 mating cycles<br>B = Quality class 2 = 200 mating cycles<br>C = Quality class 1 = 500 mating cycles | |

Technical specifications are subject to change without notice.


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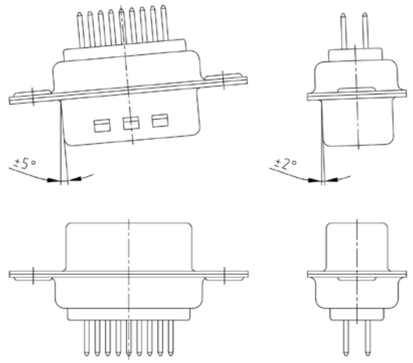
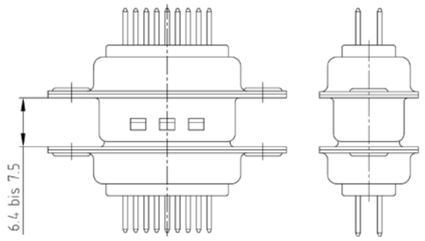
## Mating conditions

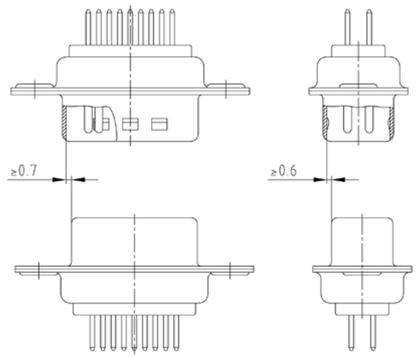
### Max. tilt angle for connector mating




### Range for safe contact

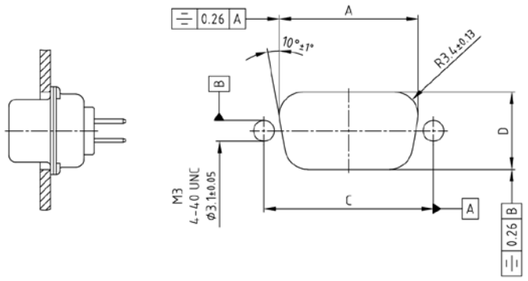



### Lock-in range

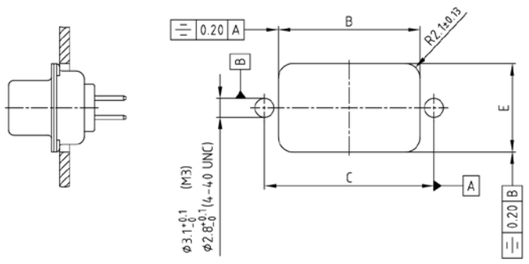



## Panel cut-out

### Back panel mounting




### Front panel mounting




| Shell size | No. of poles | | A ± 0.1 | B ± 0.1 | C ± 0.1 | D ± 0.1 | E ± 0.1 |
|---|---|---|---|---|---|---|---|
| 1 | 9 | 15 | 20.50 | 20.90 | 25.00 | 11.40 | 13.00 |
| 2 | 15 | 26 | 28.80 | 29.20 | 33.30 | 11.40 | 13.00 |
| 3 | 25 | 44 | 42.50 | 42.90 | 47.04 | 11.40 | 13.00 |
| 4 | 37 | 62 | 59.10 | 59.40 | 63.50 | 11.40 | 13.00 |
| 5 | 50 | 78 | 56.30 | 57.00 | 61.10 | 14.10 | 15.80 |

Technical specifications are subject to change without notice.



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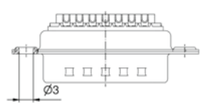
# D-SUB Connectors
## Standard

### Solder cup
### Precision machined contacts, AWG 20

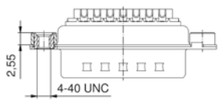
*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Through-hole Ø 3 mm**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 9 | 75 (UL) / 5 (CSA, VDE) | 125 | E202784 | 3 | 164A10019X | 163A11069X |
| 15 | | | | | 164A10029X | 163A11079X |
| 25 | | | | | 164A10039X | 163A11089X |
| 37 | | | | | 164A10049X | 163A11099X |
| 50 | | | | | 164A10059X | 163A11109X |

**4-40 UNC threaded insert**



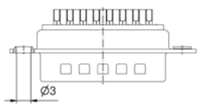

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 125 | E202784 | 3 | 164A10219X | 163A11269X |
| 15 | | | | | 164A10229X | 163A11279X |
| 25 | | | | | 164A10239X | 163A11289X |
| 37 | | | | | 164A10249X | 163A11299X |
| 50 | | | | | 164A10259X | 163A11309X |

# D-SUB Connectors
## Standard

### Solder cup
### Stamped contacts, AWG 20

*Shell: Steel nickel plated*
*Quality class 3 (A) = 50 mating cycles*

**Through-hole Ø 3 mm**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 3 | 125 | | 3 | 302A10019X | 301A10019X |
| 15 | | | | | 302A10029X | 301A10029X |
| 25 | | | | | 302A10059X | 301A10059X |
| 37 | | | | | 302A10069X | 301A10069X |
| 50 | | | | | 302A10079X | 301A10079X |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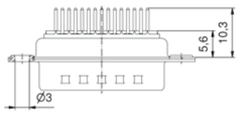
# D-SUB Connectors
## Standard

### Solder pin, straight
### Precision machined contacts

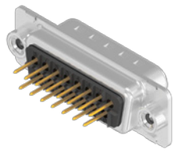
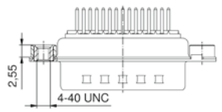
*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Through-hole Ø 3 mm**



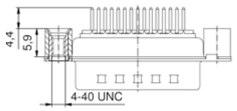

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A10069X | 163A11119X |
| 15 | | | | | 164A10079X | 163A11129X |
| 25 | | | | | 164A10089X | 163A11139X |
| 37 | | | | | 164A10099X | 163A11149X |
| 50 | | | | | 164A10109X | 163A11159X |

**4-40 UNC threaded insert**

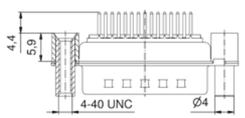

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A10319X | 163A11369X |
| 15 | | | | | 164A10329X | 163A11379X |
| 25 | | | | | 164A10339X | 163A11389X |
| 37 | | | | | 164A10349X | 163A11399X |
| 50 | | | | | 164A10359X | 163A11409X |

**4-40 UNC threaded rear spacer**



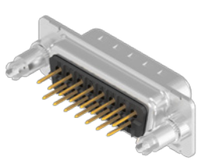
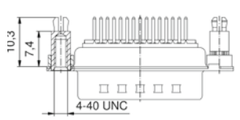

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A12029X | 163A13629X |
| 15 | | | | | 164A12039X | 163A13639X |
| 25 | | | | | 164A12049X | 163A13649X |
| 37 | | | | | 164A12059X | 163A13659X |
| 50 | | | | | 164A12069X | 163A13669X |

**4-40 UNC front, threaded rear spacer**



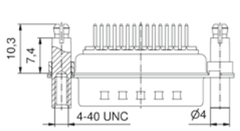

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A12129X | 163A13729X |
| 15 | | | | | 164A12139X | 163A13739X |
| 25 | | | | | 164A12149X | 163A13749X |
| 37 | | | | | 164A12159X | 163A13759X |
| 50 | | | | | 164A12169X | 163A13769X |

**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**


| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A16569X | 163A16159X |
| 15 | | | | | 164A16579X | 163A16169X |
| 25 | | | | | 164A16589X | 163A16179X |
| 37 | | | | | 164A16599X | 163A16189X |
| 50 | | | | | 164A16609X | 163A16199X |

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A16669X | 163A16259X |
| 15 | | | | | 164A16679X | 163A16269X |
| 25 | | | | | 164A16689X | 163A16279X |
| 37 | | | | | 164A16699X | 163A16289X |
| 50 | | | | | 164A16709X | 163A16299X |



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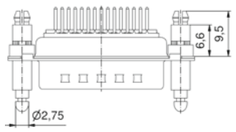
## D-SUB Connectors
### Standard

### CONEC SnapLock, Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*

**SnapLock bolt, Clip for PCB 1.6 mm [suitable for CONEC SnapLock hoods]**



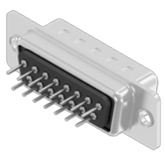

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA/VDE) | 125 | E202784 | 3 | 16-002143 | 16-002093 |
| 15 | | | | | 16-002153 | 16-002103 |
| 25 | | | | | 16-002163 | 16-002113 |
| 37 | | | | | 16-002173 | 16-002123 |
| 50 | | | | | 16-002183 | 16-002133 |

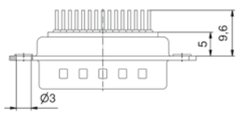
## D-SUB Connectors
### Standard

### Solder pin, straight
### Stamped contacts

*Shell: Steel nickel plated*
*Quality class 3 (A) = 50 mating cycles*

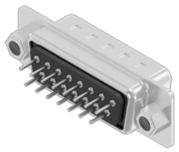
**Through-hole Ø 3 mm**

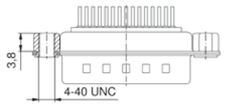





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 3 | 125 | | 3 | DLS1XS4AD01X | DLS1XP4AD01X |
| 15 | | | | | DLS2XS4AD01X | DLS2XP4AD01X |
| 25 | | | | | DLS3XS4AD01X | DLS3XP4AD01X |
| 37 | | | | | DLS4XS4AD01X | DLS4XP4AD01X |
| 50 | | | | | DLS5XS4AD01X | DLS5XP4AD01X |

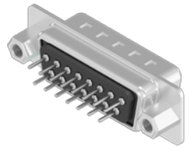
**4-40 UNC threaded insert**

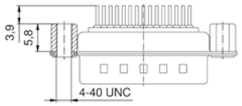





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 3 | 125 | | 3 | DLS1XS4AG06X | DLS1XP4AG06X |
| 15 | | | | | DLS2XS4AG06X | DLS2XP4AG06X |
| 25 | | | | | DLS3XS4AG06X | DLS3XP4AG06X |
| 37 | | | | | DLS4XS4AG06X | DLS4XP4AG06X |
| 50 | | | | | DLS5XS4AG06X | DLS5XP4AG06X |

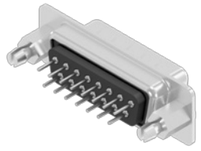
**4-40 UNC threaded rear spacer**

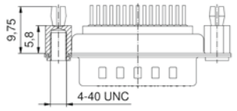





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 3 | 125 | | 3 | DLS1XS4AA37X | DLS1XP4AA37X |
| 15 | | | | | DLS2XS4AA37X | DLS2XP4AA37X |
| 25 | | | | | DLS3XS4AA37X | DLS3XP4AA37X |
| 37 | | | | | DLS4XS4AA37X | DLS4XP4AA37X |
| 50 | | | | | DLS5XS4AA37X | DLS5XP4AA37X |

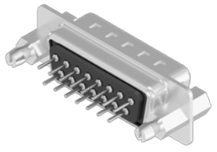
**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**

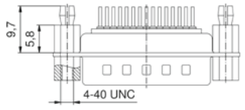





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 3 | 125 | | 3 | DLS1XS4AA35X | DLS1XP4AA35X |
| 15 | | | | | DLS2XS4AA35X | DLS2XP4AA35X |
| 25 | | | | | DLS3XS4AA35X | DLS3XP4AA35X |
| 37 | | | | | DLS4XS4AA35X | DLS4XP4AA35X |
| 50 | | | | | DLS5XS4AA35X | DLS5XP4AA35X |

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 3 | 125 | | 3 | DLS1XS4AA39X | DLS1XP4AA39X |
| 15 | | | | | DLS2XS4AA39X | DLS2XP4AA39X |
| 25 | | | | | DLS3XS4AA39X | DLS3XP4AA39X |
| 37 | | | | | DLS4XS4AA39X | DLS4XP4AA39X |
| 50 | | | | | DLS5XS4AA39X | DLS5XP4AA39X |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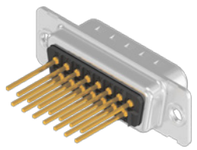
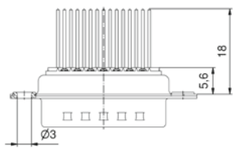
## D-SUB Connectors
Standard

### Wire wrap
Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

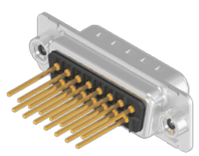
**Through-hole Ø 3 mm**

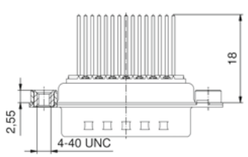





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A10119X | 163A11169X |
| 15 | | | | | 164A10129X | 163A11179X |
| 25 | | | | | 164A10139X | 163A11189X |
| 37 | | | | | 164A10149X | 163A11199X |
| 50 | | | | | 164A10159X | 163A11209X |

**4-40 UNC threaded insert**





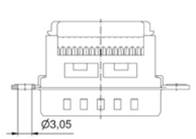

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A10419X | 163A11469X |
| 15 | | | | | 164A10429X | 163A11479X |
| 25 | | | | | 164A10439X | 163A11489X |
| 37 | | | | | 164A10449X | 163A11499X |
| 50 | | | | | 164A10459X | 163A11509X |

## D-SUB Connectors
Standard

### IDC for flat cable
Stamped contacts, AWG 26-28

*Shell: Steel nickel plated*
*Quality class 3 (A) = 50 mating cycles*
*Connector includes strain relief*

**Through-hole Ø 3 mm**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 1 | 125 | | 3 | 302A10089X | 301A10089X |
| 15 | | | | | 302A10099X | 301A10099X |
| 25 | | | | | 302A10109X | 301A10109X |
| 37 | | | | | 302A10119X | 301A10119X |



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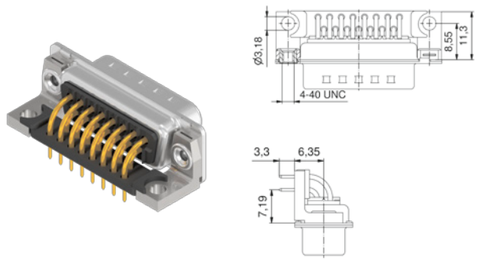
# D-SUB Connectors
## Standard

### Solder pin, angled, .318"/7.19 mm
### Precision machined contacts, metal bracket

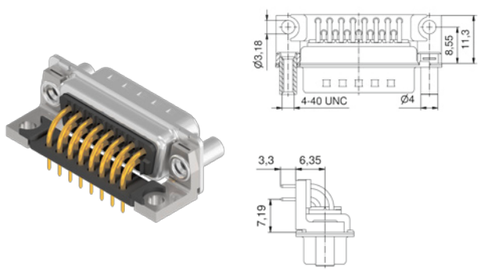
*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**



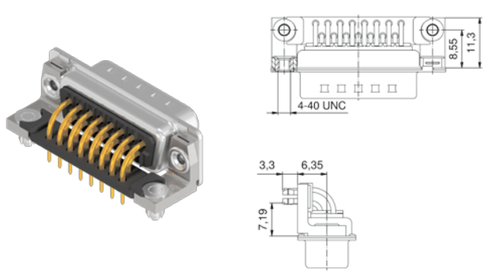

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A11519X | 163A13069X |
| 15 | | | | | 164A11529X | 163A13079X |
| 25 | | | | | 164A11539X | 163A13089X |
| 37 | | | | | 164A11549X | 163A13099X |
| 50 | | | | | 164A18969X | 163A18549X |

**4-40 UNC front spacer**



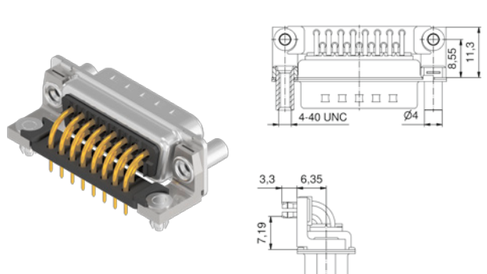

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A16929X | 163A16519X |
| 15 | | | | | 164A16939X | 163A16529X |
| 25 | | | | | 164A16949X | 163A16539X |
| 37 | | | | | 164A16959X | 163A16549X |
| 50 | | | | | 164A19019X | 163A18589X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A17939X | 163A17529X |
| 15 | | | | | 164A17949X | 163A17539X |
| 25 | | | | | 164A17959X | 163A17549X |
| 37 | | | | | 164A17969X | 163A17559X |
| 50 | | | | | 164A18989X | 163A18569X |

**Clip for PCB 1.6 mm, 4-40 UNC front spacer**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A19039X | 163A18609X |
| 15 | | | | | 164A19049X | 163A18619X |
| 25 | | | | | 164A19059X | 163A18629X |
| 37 | | | | | 164A19069X | 163A18639X |
| 50 | | | | | 164A19079X | 163A18649X |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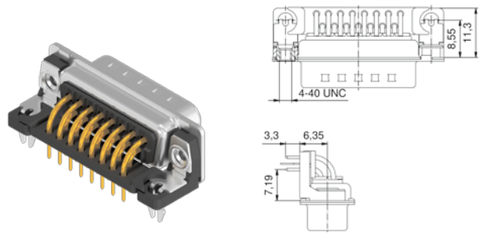
## D-SUB Connectors
Standard

### Solder pin, angled, .318"/7.19 mm
Precision machined contacts, plastic bracket

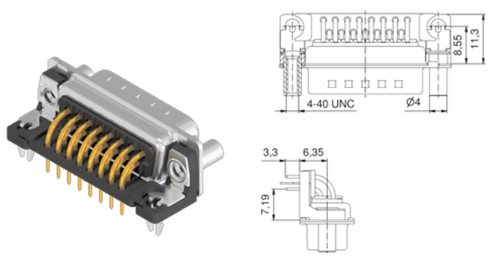
*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A18809X | 163A18389X |
| 15 | | | | | 164A18819X | 163A18399X |
| 25 | | | | | 164A18829X | 163A18409X |
| 37 | | | | | 164A18839X | 163A18419X |

**Clip for PCB 1.6 mm, 4-40 UNC front spacer**



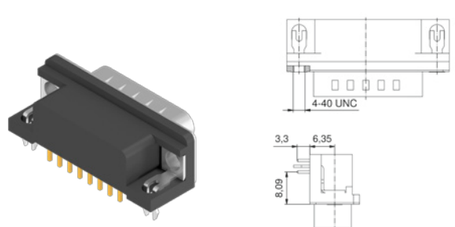

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A18889X | 163A18469X |
| 15 | | | | | 164A18899X | 163A18479X |
| 25 | | | | | 164A18909X | 163A18489X |
| 37 | | | | | 164A18919X | 163A18499X |

## D-SUB Connectors
Standard

### Solder pin, angled, .318"/8.09 mm
Stamped contacts, plastic bracket

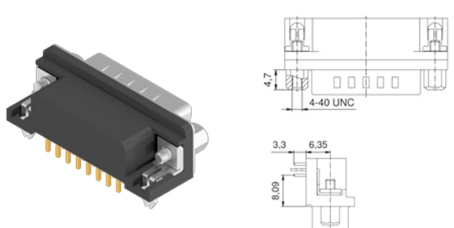
*Shell: Steel nickel plated*
*Quality class 3 (A) = 50 mating cycles*

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 3 | 125 | | 3 | 302A11339X | 301A11029X |
| 15 | | | | | 302A11349X | 301A11039X |
| 25 | | | | | 302A11359X | 301A11049X |
| 37 | | | | | 302A11369X | 301A11059X |

**Clip for PCB 1.6 mm, 4-40 UNC front spacer**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 3 | 125 | | 3 | 302A11249X | 301A10939X |
| 15 | | | | | 302A11259X | 301A10949X |
| 25 | | | | | 302A11269X | 301A10959X |
| 37 | | | | | 302A11279X | 301A10969X |



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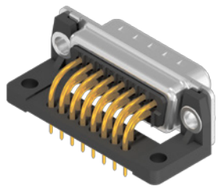
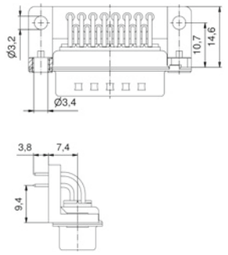
# D-SUB Connectors
## Standard

### Solder pin, angled, .370"/9.4 mm
### Precision machined contacts, plastic bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

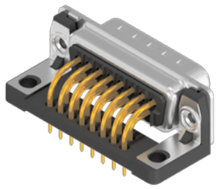
**Through-hole Ø 3,4 mm**

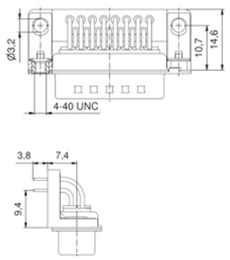





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 7,5 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A10669X | 163A11719X |
| 15 | | | | | 164A10679X | 163A11729X |
| 25 | | | | | 164A10689X | 163A11739X |
| 37 | | | | | 164A10699X | 163A11749X |
| 50 | | | | | 164A10709X | 163A11759X |

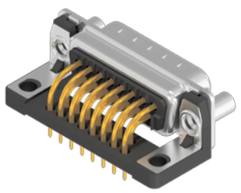
**Grounding strap, 4-40 UNC threaded insert**

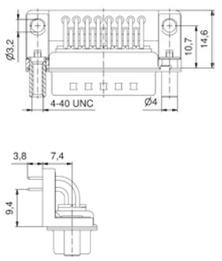





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 7,5 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A12329X | 163A14119X |
| 15 | | | | | 164A12339X | 163A14129X |
| 25 | | | | | 164A12349X | 163A14139X |
| 37 | | | | | 164A12359X | 163A14149X |

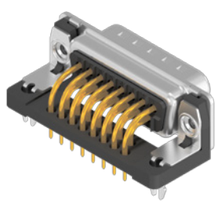
**Grounding strap, 4-40 UNC front spacer**

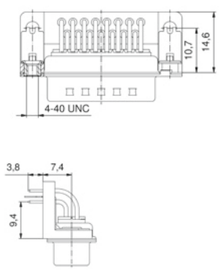





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 7,5 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A12229X | 163A13829X |
| 15 | | | | | 164A12239X | 163A13839X |
| 25 | | | | | 164A12249X | 163A13849X |
| 37 | | | | | 164A12259X | 163A13859X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 7,5 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 164A12969X | 163A14489X |
| 15 | | | | | 164A12979X | 163A14499X |
| 25 | | | | | 164A12989X | 163A14509X |
| 37 | | | | | 164A12999X | 163A14519X |
| 50 | | | | | 164A19139X | 163A18709X |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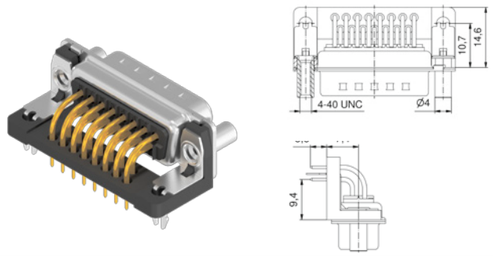
## D-SUB Connectors
Standard

### Solder pin, angled, .370"/9.4 mm
Precision machined contacts, plastic bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

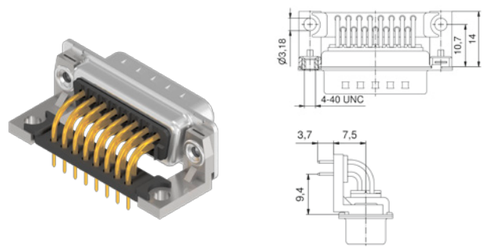
Clip for PCB 1.6 mm, 4-40 UNC front spacer




| *No. of poles* | *Current rating [A]* | *Working voltage [V]* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 125 | E202784 | 3 | 164A13089X | 163A14609X |
| 15 | | | | | 164A13099X | 163A14619X |
| 25 | | | | | 164A13109X | 163A14629X |
| 37 | | | | | 164A13119X | 163A14639X |
| 50 | | | | | 164A19159X | 163A18729X |

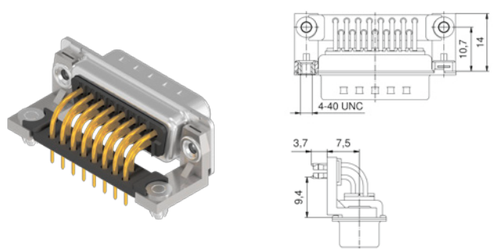
### Solder pin, angled, .370"/9.4 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert




| *No. of poles* | *Current rating [A]* | *Working voltage [V]* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 125 | E202784 | 3 | 164A10969X | 163A12019X |
| 15 | | | | | 164A10979X | 163A12029X |
| 25 | | | | | 164A10989X | 163A12039X |
| 37 | | | | | 164A10999X | 163A12049X |
| 50 | | | | | 164A18739X | 163A18319X |

Clip for PCB 1.6 mm, 4-40 UNC threaded insert



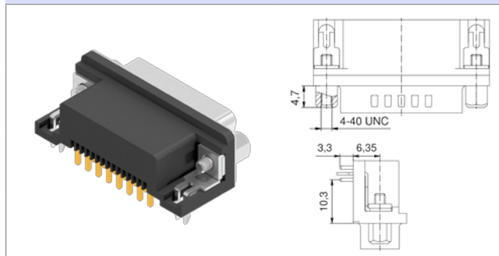

| | | | | | | |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 125 | E202784 | 3 | 164A16769X | 163A16359X |
| 15 | | | | | 164A16779X | 163A16369X |
| 25 | | | | | 164A16789X | 163A16379X |
| 37 | | | | | 164A16799X | 163A16389X |
| 50 | | | | | 164A18759X | 163A18339X |

## D-SUB Connectors
Standard

### Solder pin, angled, .370"/10.3 mm
Stamped contacts, plastic bracket

*Shell: Steel nickel plated*
*Quality class 3 (A) = 50 mating cycles*

Clip for PCB 1.6 mm, 4-40 UNC front spacer




| *No. of poles* | *Current rating [A]* | *Working voltage [V]* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 09 | 3 | 125 | | 3 | 302A10779X | 301A10679X |
| 15 | | | | | 302A10789X | 301A10689X |
| 25 | | | | | 302A10799X | 301A10699X |
| 37 | | | | | 302A10809X | 301A10709X |



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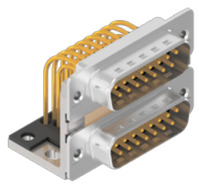
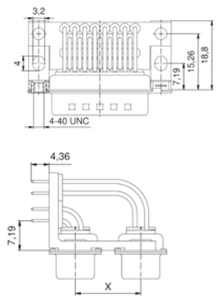
# D-SUB Connectors
## Dual Port

### Plug upper - Plug bottom
### Solder pin, angled, precision machined contacts

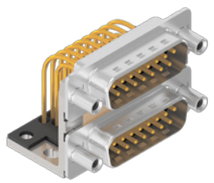
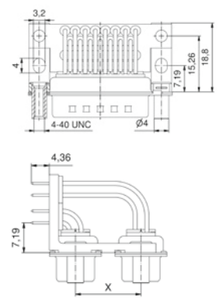
*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

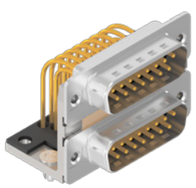
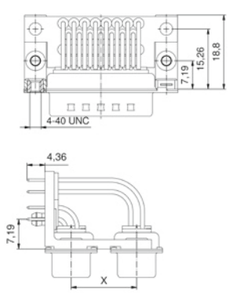

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 163A15199X |
| 15/15 | | | | | | 163A15209X |
| 25/25 | | | | | | 163A15219X |
| 37/37 | | | | | | 163A15229X |
| 09/09 | | | | | .750 19.05 | 163A15519X |
| 15/15 | | | | | | 163A15529X |
| 25/25 | | | | | | 163A15539X |
| 37/37 | | | | | | 163A15549X |

**4-40 UNC front spacer**

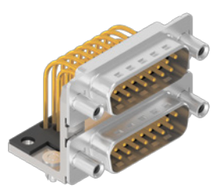
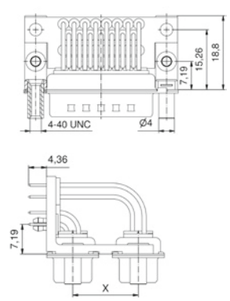

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 163A15359X |
| 15/15 | | | | | | 163A15369X |
| 25/25 | | | | | | 163A15379X |
| 37/37 | | | | | | 163A15389X |
| 09/09 | | | | | .750 19.05 | 163A15679X |
| 15/15 | | | | | | 163A15689X |
| 25/25 | | | | | | 163A15699X |
| 37/37 | | | | | | 163A15709X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**


| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 163A19969X |
| 15/15 | | | | | | 163A19979X |
| 25/25 | | | | | | 163A19989X |
| 37/37 | | | | | | 163A19999X |
| 09/09 | | | | | .750 19.05 | 163A19489X |
| 15/15 | | | | | | 163A19499X |
| 25/25 | | | | | | 163A19509X |
| 37/37 | | | | | | 163A19519X |

**Clip for PCB 1.6 mm, 4-40 UNC front spacer**


| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 163A19329X |
| 15/15 | | | | | | 163A19339X |
| 25/25 | | | | | | 163A19349X |
| 37/37 | | | | | | 163A19359X |
| 09/09 | | | | | .750 19.05 | 163A19649X |
| 25/25 | | | | | | 163A19659X |
| 25/25 | | | | | | 163A19669X |
| 37/37 | | | | | | 163A19679X |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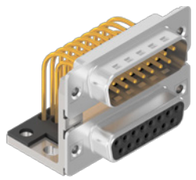
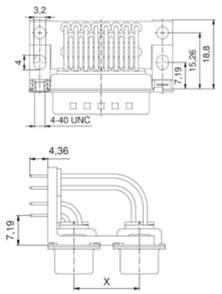
# D-SUB Connectors
## Dual Port

### Plug upper - Socket bottom
### Solder pin, angled, precision machined contacts

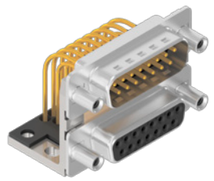
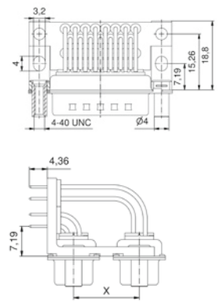
*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

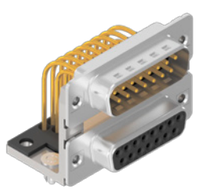
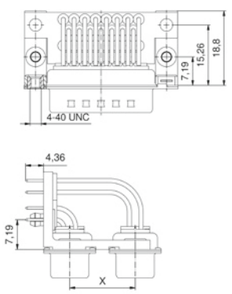

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 163A15239X |
| 15/15 | | | | | | 163A15249X |
| 25/25 | | | | | | 163A15259X |
| 37/37 | | | | | | 163A15269X |
| 09/09 | | | | | .750 19.05 | 163A15559X |
| 15/15 | | | | | | 163A15569X |
| 25/25 | | | | | | 163A15579X |
| 37/37 | | | | | | 163A15589X |

**4-40 UNC front spacer**

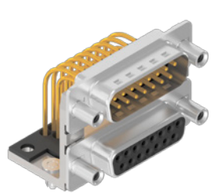
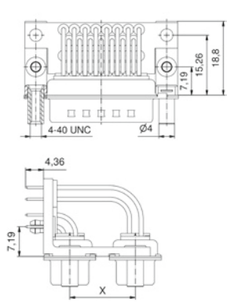

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 163A15399X |
| 15/15 | | | | | | 163A15409X |
| 25/25 | | | | | | 163A15419X |
| 37/37 | | | | | | 163A15429X |
| 09/09 | | | | | .750 19.05 | 163A15719X |
| 15/15 | | | | | | 163A15729X |
| 25/25 | | | | | | 163A15739X |
| 37/37 | | | | | | 163A15749X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**


| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 163A20009X |
| 15/15 | | | | | | 163A20019X |
| 25/25 | | | | | | 163A20029X |
| 37/37 | | | | | | 163A20039X |
| 09/09 | | | | | .750 19.05 | 163A19529X |
| 15/15 | | | | | | 163A19539X |
| 25/25 | | | | | | 163A19549X |
| 37/37 | | | | | | 163A19559X |

**Clip for PCB 1.6 mm, 4-40 UNC front spacer**


| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 163A19369X |
| 15/15 | | | | | | 163A19379X |
| 25/25 | | | | | | 163A19389X |
| 37/37 | | | | | | 163A19399X |
| 09/09 | | | | | .750 19.05 | 163A19689X |
| 15/15 | | | | | | 163A19699X |
| 25/25 | | | | | | 163A19709X |
| 37/37 | | | | | | 163A19719X |



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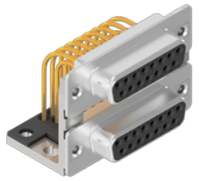
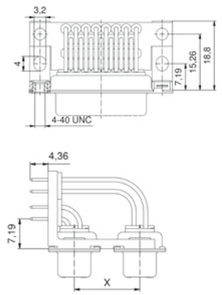
# D-SUB Connectors
## Dual Port

### Socket upper - Socket bottom
### Solder pin, angled, precision machined contacts

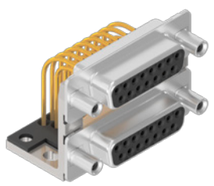
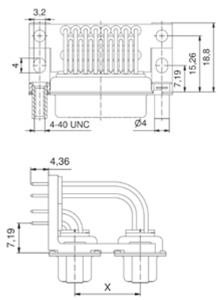
*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

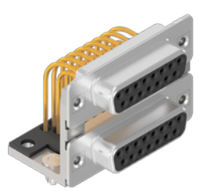
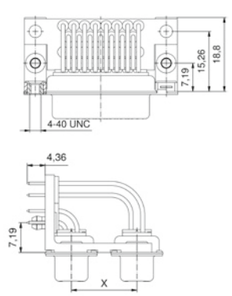

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 164A15609X |
| 15/15 | | | | | | 164A15619X |
| 25/25 | | | | | | 164A15629X |
| 37/37 | | | | | | 164A15639X |
| 09/09 | | | | | .750 19.05 | 164A15929X |
| 15/15 | | | | | | 164A15939X |
| 25/25 | | | | | | 164A15949X |
| 37/37 | | | | | | 164A15959X |

**4-40 UNC front spacer**

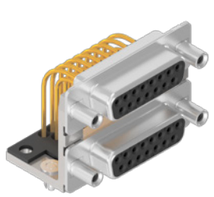
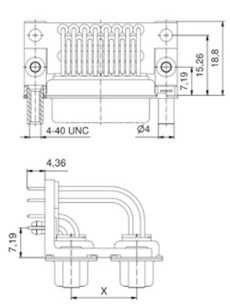

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 164A15769X |
| 15/15 | | | | | | 164A15779X |
| 25/25 | | | | | | 164A15789X |
| 37/37 | | | | | | 164A15799X |
| 09/09 | | | | | .750 19.05 | 164A16089X |
| 15/15 | | | | | | 164A16099X |
| 25/25 | | | | | | 164A16109X |
| 37/37 | | | | | | 164A16119X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**


| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 164A20409X |
| 15/15 | | | | | | 164A20419X |
| 25/25 | | | | | | 164A20429X |
| 37/37 | | | | | | 164A20439X |
| 09/09 | | | | | .750 19.05 | 164A19919X |
| 15/15 | | | | | | 164A19929X |
| 25/25 | | | | | | 164A19939X |
| 37/37 | | | | | | 164A19949X |

**Clip for PCB 1.6 mm, 4-40 UNC front spacer**


| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 164A19759X |
| 15/15 | | | | | | 164A19769X |
| 25/25 | | | | | | 164A19779X |
| 37/37 | | | | | | 164A19789X |
| 09/09 | | | | | .750 19.05 | 164A20079X |
| 15/15 | | | | | | 164A20089X |
| 25/25 | | | | | | 164A20099X |
| 37/37 | | | | | | 164A20109X |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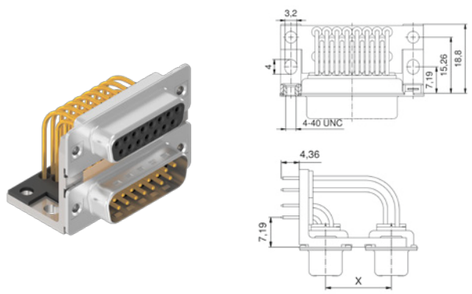
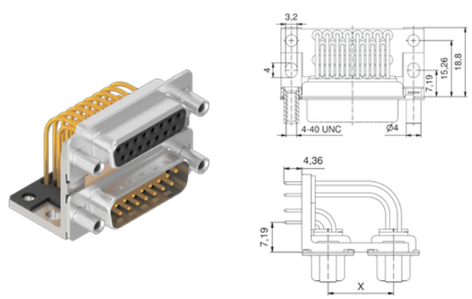
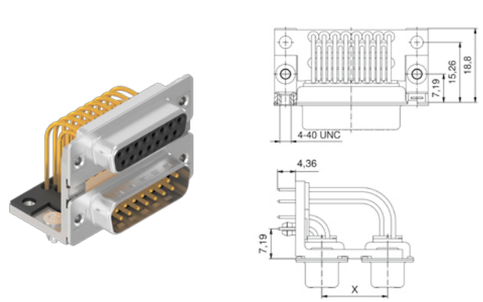
# D-SUB Connectors
## Dual Port

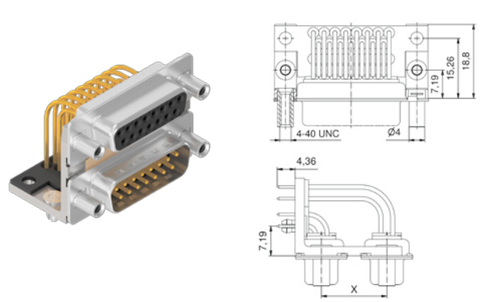
### Socket upper - Plug buttom
### Solder pin, angled, precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| 4-40 UNC threaded insert | No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|---|
|  | 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 164A15649X |
| | 15/15 | | | | | | 164A15659X |
| | 25/25 | | | | | | 164A15669X |
| | 37/37 | | | | | | 164A15679X |
| | 09/09 | | | | | .750 19.05 | 164A15969X |
| | 15/15 | | | | | | 164A15979X |
| | 25/25 | | | | | | 164A15989X |
| | 37/37 | | | | | | 164A15999X |

| 4-40 UNC front spacer | | | | | | | |
|---|---|---|---|---|---|---|---|
|  | 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 164A15809X |
| | 15/15 | | | | | | 164A15819X |
| | 25/25 | | | | | | 164A15829X |
| | 37/37 | | | | | | 164A15839X |
| | 09/09 | | | | | .750 19.05 | 164A16129X |
| | 15/15 | | | | | | 164A16139X |
| | 25/25 | | | | | | 164A16149X |
| | 37/37 | | | | | | 164A16159X |

| Clip for PCB 1.6 mm, 4-40 UNC threaded insert | | | | | | | |
|---|---|---|---|---|---|---|---|
|  | 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 164A20449X |
| | 15/15 | | | | | | 164A20459X |
| | 25/25 | | | | | | 164A20469X |
| | 37/37 | | | | | | 164A20479X |
| | 09/09 | | | | | .750 19.05 | 164A19959X |
| | 15/15 | | | | | | 164A19969X |
| | 25/25 | | | | | | 164A19979X |
| | 37/37 | | | | | | 164A19989X |

| Clip for PCB 1.6 mm, 4-40 UNC front spacer | | | | | | | |
|---|---|---|---|---|---|---|---|
|  | 09/09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | .625 15.88 | 164A19799X |
| | 15/15 | | | | | | 164A19809X |
| | 25/25 | | | | | | 164A19819X |
| | 09/09 | | | | | .750 19.05 | 164A20119X |
| | 15/15 | | | | | | 164A20129X |
| | 25/25 | | | | | | 164A20139X |
| | 37/37 | | | | | | 164A20149X |



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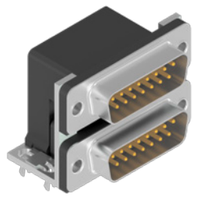
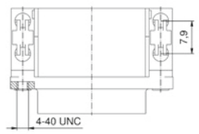
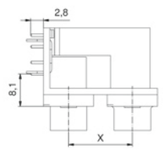
# D-SUB Connectors
## Dual Port

### Plug upper - Plug bottom
### Solder pin, angled, stamped contacts

Clip for PCB 1.6 mm, 4-40 UNC threaded insert





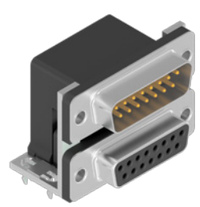



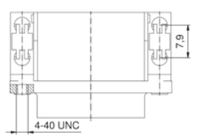

*Shell: Steel nickel plated*
*Quality class 3 (A) = 50 mating cycles*

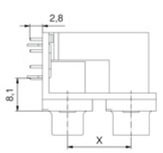
| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 3 | 125 | | 3 | .625 15.88 | DLS1PP5AN21X |
| 15/15 | | | | | | DLS2PP5AN21X |
| 25/25 | | | | | | DLS3PP5AN21X |
| 37/37 | | | | | | DLS4PP5AN21X |
| 09/09 | | | | | .750 19.05 | DLS1PP5AN23X |
| 15/15 | | | | | | DLS2PP5AN23X |
| 25/25 | | | | | | DLS3PP5AN23X |
| 37/37 | | | | | | DLS4PP5AN23X |

### Plug upper - Socket bottom
### Solder pin, angled, stamped contacts

Clip for PCB 1.6 mm, 4-40 UNC threaded insert



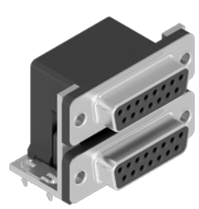


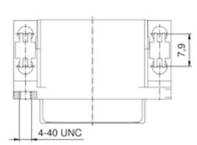



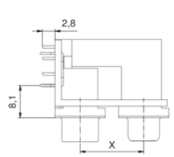

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 3 | 125 | | 3 | .625 15.88 | DLS1PS5AN21X |
| 15/15 | | | | | | DLS2PS5AN21X |
| 25/25 | | | | | | DLS3PS5AN21X |
| 37/37 | | | | | | DLS4PS5AN21X |
| 09/09 | | | | | .750 19.05 | DLS1PS5AN23X |
| 15/15 | | | | | | DLS2PS5AN23X |
| 25/25 | | | | | | DLS3PS5AN23X |
| 37/37 | | | | | | DLS4PS5AN23X |

### Socket upper - Socket bottom
### Solder pin, angled, stamped contacts

Clip for PCB 1.6 mm, 4-40 UNC threaded insert






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 3 | 125 | | 3 | .625 15.88 | DLS1SS5AN21X |
| 15/15 | | | | | | DLS2SS5AN21X |
| 25/25 | | | | | | DLS3SS5AN21X |
| 37/37 | | | | | | DLS4SS5AN21X |
| 09/09 | | | | | .750 19.05 | DLS1SS5AN23X |
| 15/15 | | | | | | DLS2SS5AN23X |
| 25/25 | | | | | | DLS3SS5AN23X |
| 37/37 | | | | | | DLS4SS5AN23X |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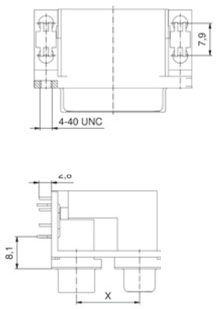
## D-SUB Connectors
### Dual Port

**Socket upper - Plug buttom**
**Solder pin, angled, stamped contacts**

*Shell: Steel nickel plated*
*Quality class 3 (A) = 50 mating cycles*

Clip for PCB 1.6 mm, 4-40 UNC threaded insert



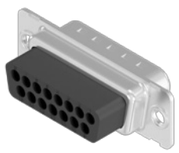

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|
| 09/09 | 3 | 125 | | 3 | .625 15.88 | DLS1SP5AN21X |
| 15/15 | | | | | | DLS2SP5AN21X |
| 25/25 | | | | | | DLS3SP5AN21X |
| 37/37 | | | | | | DLS4SP5AN21X |
| 09/09 | | | | | .750 19.05 | DLS1SP5AN23X |
| 15/15 | | | | | | DLS2SP5AN23X |
| 25/25 | | | | | | DLS3SP5AN23X |
| 37/37 | | | | | | DLS4SP5AN23X |

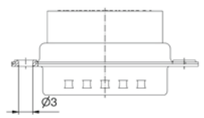
## D-SUB Connectors
### Standard

**Crimp body (without contacts)**
**For AWG 24-20 and AWG 28-24 crimp contacts**

*Shell: Steel tin plated*
*On request:*
- *Brass tin plated or stainless steel*
- *M3 thread*

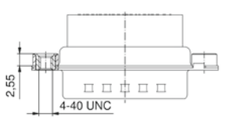
Through-hole Ø 3 mm






| No. of poles | Working voltage [V] | UL-File | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 09 | 125 | E202784 | 164X11769X | 163X10019X |
| 15 | | | 164X11779X | 163X10029X |
| 25 | | | 164X11789X | 163X10039X |
| 37 | | | 164X11799X | 163X10049X |
| 50 | | | 164X11809X | 163X10059X |

4-40 UNC threaded insert




| No. of poles | Working voltage [V] | UL-File | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 09 | 125 | E202784 | DSS1XSXXG04X | DSS1XPXXG04X |
| 15 | | | DSS2XSXXG04X | DSS2XPXXG04X |
| 25 | | | DSS3XSXXG04X | DSS3XPXXG04X |
| 37 | | | DSS4XSXXG04X | DSS4XPXXG04X |
| 50 | | | DSS5XSXXG04X | DSS5XPXXG04X |



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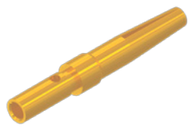
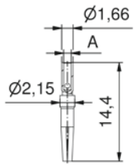
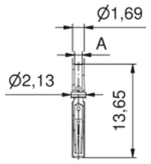
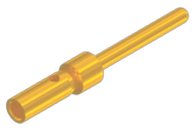
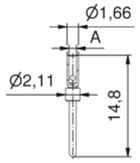
# D-SUB Connectors
## Standard

### Crimp-contacts, precision machined

*Quality class 3 (A) = 50 mating cyles*
*Quality class 1 (C) = 500 mating cycles*
*On request:*
- *Female/Male contact qualtiy class 1*
*(Closed entry version only in qualtiy class 3)*

| Female contact | Quantity [pcs] | AWG | Current rating [A] | Crimp inner Ø A = [mm] | Quality class | Loose contacts | Part No. |
|---|---|---|---|---|---|---|---|
|    | 500 | 24-20 | 7.5 | 1,12 | 3 | ✓ | 162A18709X |
| | 100 | | | | | | 16-001653 |
| | 500 | 28-24 | 5 | 0,64 | | | 162A18719X |
| | 100 | | | | | | 16-001663 |

| Female contact closed entry | | | | | | | |
|---|---|---|---|---|---|---|---|
|   | 100 | 24-20 | 7.5 | 1,12 | 1 | ✓ | 132C15019X |
| | | 28-24 | 5 | 0,6 | | | 132C15029X |

| Male contact | | | | | | | |
|---|---|---|---|---|---|---|---|
|    | 500 | 24-20 | 7.5 | 1,12 | 3 | ✓ | 161A18299X |
| | 100 | | | | | | 16-001673 |
| | 500 | 28-24 | 5 | 0,64 | | | 161A18309X |
| | 100 | | | | | | 16-001683 |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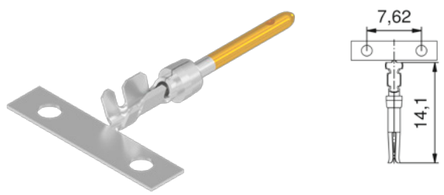
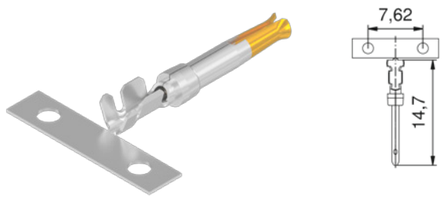
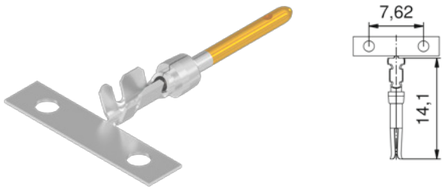
# D-SUB Connectors
## Standard

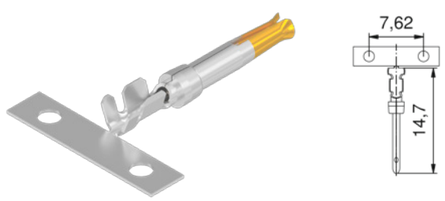
### Crimp-contacts, stamped

*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

| Female contact, AWG 24-20 | Quantity [pcs] | Current rating [A] | Loose contacts | Small reel wheeled left | Big reel wheeled left | Big reel wheeled right | Quality class | Part No. |
|---|---|---|---|---|---|---|---|---|
|   | 500 | 7.5 | ✓ | | | | 3 | 162A11849X |
| | | | | ✓ | | | | 162A11839X |
| | 10000 | | | | ✓ | | | 162A11819X |
| | | | | | | ✓ | | 162A11829X |

| Male contact, AWG 24-20 | Quantity [pcs] | Current rating [A] | Loose contacts | Small reel wheeled left | Big reel wheeled left | Big reel wheeled right | Quality class | Part No. |
|---|---|---|---|---|---|---|---|---|
|   | 500 | 7.5 | ✓ | | | | 3 | 161A13399X |
| | | | | ✓ | | | | 161A13389X |
| | 10000 | | | | ✓ | | | 161A13369X |
| | | | | | | ✓ | | 161A13379X |

| Female contact, AWG 28-24 | Quantity [pcs] | Current rating [A] | Loose contacts | Small reel wheeled left | Big reel wheeled left | Big reel wheeled right | Quality class | Part No. |
|---|---|---|---|---|---|---|---|---|
|   | 500 | 5 | ✓ | | | | 3 | 162A11889X |
| | | | | ✓ | | | | 162A11879X |
| | 10000 | | | | ✓ | | | 162A11859X |
| | | | | | | ✓ | | 162A11869X |

| Male contact, AWG 28-24 | Quantity [pcs] | Current rating [A] | Loose contacts | Small reel wheeled left | Big reel wheeled left | Big reel wheeled right | Quality class | Part No. |
|---|---|---|---|---|---|---|---|---|
|   | 500 | 5 | ✓ | | | | 3 | 161A13439X |
| | | | | ✓ | | | | 161A13429X |
| | 10000 | | | | ✓ | | | 161A13409X |
| | | | | | | ✓ | | 161A13419X |



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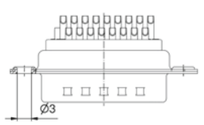
## D-SUB Connectors
### High Density

### Solder cup
### Precision machined contacts, AWG 22

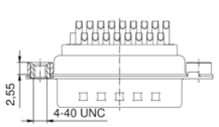
*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Through-hole Ø 3 mm**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL,VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 164A17009X | 163A16599X |
| 26 | | | | | 164A17019X | 163A16609X |
| 44 | | | | | 164A17029X | 163A16619X |
| 62 | | | | | 164A17039X | 163A16629X |
| 78 | | | | | 164A17049X | 163A16639X |

**4-40 UNC threaded insert**



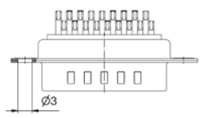

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL,VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 164A17059X | 163A16649X |
| 26 | | | | | 164A17069X | 163A16659X |
| 44 | | | | | 164A17079X | 163A16669X |
| 62 | | | | | 164A17089X | 163A16679X |
| 78 | | | | | 164A17099X | 163A16689X |

## D-SUB Connectors
### High Density

### Solder cup
### Stamped contacts, AWG 22

*Shell: Steel nickel plated*
*Quality class 3 (A) = 50 mating cycles*

**Through-hole Ø 3 mm**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 | 60 | | 3 | 302A10129X | 301A10129X |
| 26 | | | | | 302A10139X | 301A10139X |
| 44 | | | | | 302A10149X | 301A10149X |
| 62 | | | | | 302A10159X | 301A10159X |
| 78 | | | | | 302A11329X | 301A11019X |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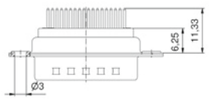
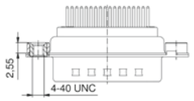
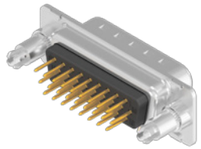
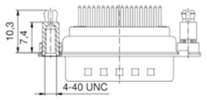
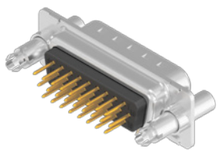
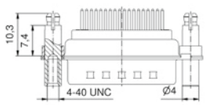
# D-SUB Connectors
## High Density

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| Through-hole Ø 3 mm | No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
|   | 15 | 3 (UL,VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 164A17159X | 163A16749X |
| | 26 | | | | | 164A17169X | 163A16759X |
| | 44 | | | | | 164A17179X | 163A16769X |
| | 62 | | | | | 164A17189X | 163A16779X |
| | 78 | | | | | 164A17199X | 163A16789X |
| **4-40 UNC threaded insert** | | | | | | | |
|   | 15 | 3 (UL,VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 164A17209X | 163A16799X |
| | 26 | | | | | 164A17219X | 163A16809X |
| | 44 | | | | | 164A17229X | 163A16819X |
| | 62 | | | | | 164A17239X | 163A16829X |
| | 78 | | | | | 164A17249X | 163A16839X |
| **4-40 UNC threaded rear spacer clip for PCB 1.6 mm** | | | | | | | |
|    | 15 | 3 (UL,VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 164A17359X | 163A16949X |
| | 26 | | | | | 164A17369X | 163A16959X |
| | 44 | | | | | 164A17379X | 163A16969X |
| | 62 | | | | | 164A17389X | 163A16979X |
| | 78 | | | | | 164A17399X | 163A16989X |
| **4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm** | | | | | | | |
|    | 15 | 3 (UL,VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 164A17459X | 163A17049X |
| | 26 | | | | | 164A17469X | 163A17059X |
| | 44 | | | | | 164A17479X | 163A17069X |
| | 62 | | | | | 164A17489X | 163A17079X |
| | 78 | | | | | 164A17499X | 163A17089X |



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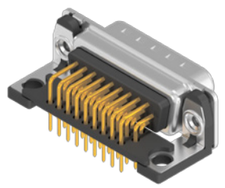
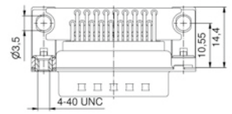
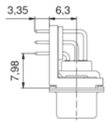
# D-SUB Connectors
## High Density

### Solder pin, angled, .350"/7.98 mm
### Precision machined contacts, plastic bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

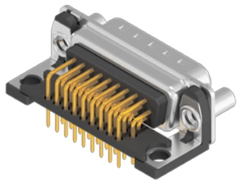
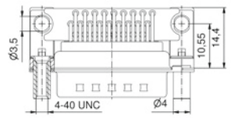
**Grounding strap, 4-40 UNC threaded insert**

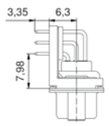






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL,VDE)/2,5 (CSA) | 60 | E202784 | 3 | 164A18019X | 163A17609X |
| 26 | | | | | 164A18029X | 163A17619X |
| 44 | | | | | 164A18039X | 163A17629X |
| 62 | | | | | 164A18049X | 163A17639X |

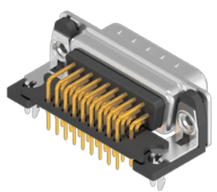
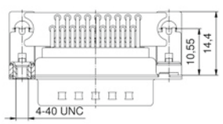
**Grounding strap, 4-40 UNC front spacer**

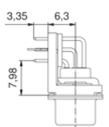






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL,VDE)/2,5 (CSA) | 60 | E202784 | 3 | 164A18099X | 163A17689X |
| 26 | | | | | 164A18109X | 163A17699X |
| 44 | | | | | 164A18119X | 163A17709X |
| 62 | | | | | 164A18129X | 163A17719X |

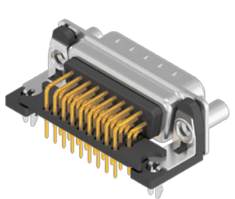
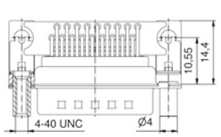
**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**

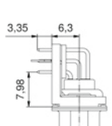






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL,VDE)/2,5 (CSA) | 60 | E202784 | 3 | 164A20929X | 163A20489X |
| 26 | | | | | 164A20939X | 163A20499X |
| 44 | | | | | 164A20949X | 163A20509X |
| 62 | | | | | 164A20959X | 163A20519X |

**Clip for PCB 1.6 mm, 4-40 UNC front spacer**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL,VDE)/2,5 (CSA) | 60 | E202784 | 3 | 164A21009X | 163A20569X |
| 26 | | | | | 164A21019X | 163A20579X |
| 44 | | | | | 164A21029X | 163A20589X |
| 62 | | | | | 164A21039X | 163A20599X |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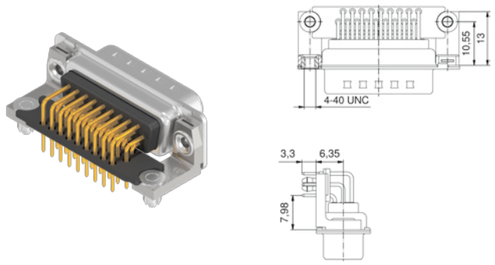
## D-SUB Connectors
### High Density

### Solder pin, angled, .350"/7.98 mm
### Precision machined contacts, metal bracket

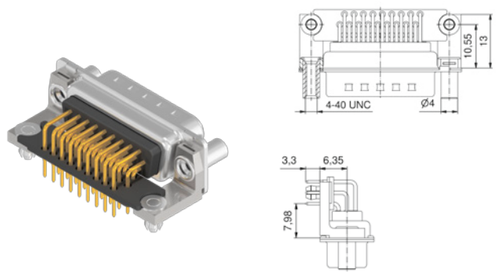
*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 164A18179X | 163A17769X |
| 26 | | | | | 164A18189X | 163A17779X |
| 44 | | | | | 164A18199X | 163A17789X |
| 62 | | | | | 164A18209X | 163A17799X |
| 78 | | | | | 164A18629X | 163A18219X |

**Clip for PCB 1.6 mm, 4-40 UNC front spacer**



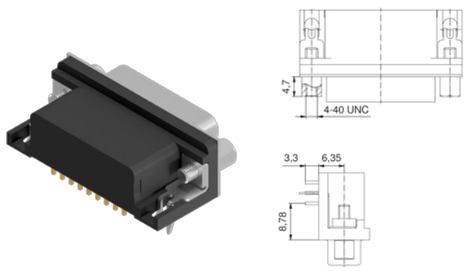

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 164A18259X | 163A17849X |
| 26 | | | | | 164A18269X | 163A17859X |
| 44 | | | | | 164A18279X | 163A17869X |
| 62 | | | | | 164A18289X | 163A17879X |
| 78 | | | | | 164A18649X | 163A18239X |

## D-SUB Connectors
### High Density

### Solder pin, angled, .350"/8.78 mm
### Precision machined contacts, plastic bracket

*Shell: Steel nickel plated*
*Quality class 3 (A) = 50 mating cycles*

**Clip for PCB 1.6 mm, 4-40 UNC front spacer**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 | 60 | | 3 | 302A10869X | 301A10869X |
| 26 | | | | | 302A10879X | 301A10879X |
| 44 | | | | | 302A10889X | 301A10889X |
| 62 | | | | | 302A10899X | 301A10899X |
| 78 | | | | | 302A11629X | 301A11369X |



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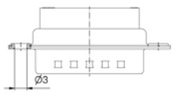
## D-SUB Connectors
### High Density

### Crimp body (without contacts)
### For AWG 28-22 crimp contacts

*Shell: Steel tin plated*
*On request:*
- *Brass tin plated or stainless steel*

**Through-hole Ø 3 mm**



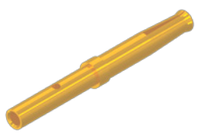

| *No. of poles* | *Working voltage [V]* | *UL-File* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|
| 15 | 60 | E202784 | 164X11949X | 163X10169X |
| 26 | | | 164X11959X | 163X10179X |
| 44 | | | 164X11969X | 163X10189X |
| 62 | | | 164X11979X | 163X10199X |
| 78 | | | 164X11989X | 163X10209X |

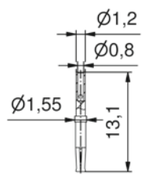
## D-SUB Connectors
### High Density

### Crimp-contacts, precision machined

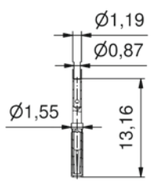
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

**Female contact, AWG 28-22**

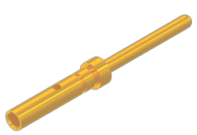


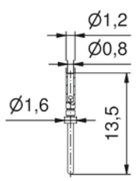



**Female contact closed entry, AWG 28-22**




**Male contact, AWG 28-22**






| *Quantity [pcs]* | *Current rating [A]* | *Loose contacts* | *Quality class* | *Part No.* |
|---|---|---|---|---|
| 500 | 3 | ✓ | 3 | 162A18419X |
| 500 | 3 | ✓ | 3 | 16-000693 |
| 500 | 3 | ✓ | 3 | 161A18009X |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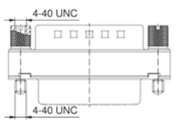
## D-SUB Connectors
### Standard

### Interface adapter, connector saver
### Plug connector - socket connector

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

4-40 UNC threaded lock



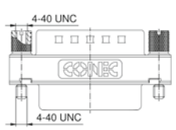

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. |
|---|---|---|---|---|---|
| 09 | 7.5 (UL), 5 (CSA, VDE) | 125 | E202784 | 3 | 163A50009X |
| 15 | | | | | 163A50019X |
| 25 | | | | | 163A50029X |
| 37 | | | | | 163A50039X |
| 50 | | | | | 163A50049X |

## D-SUB Connectors
### High Density

### Interface adapter, connector saver
### Plug connector - socket connector

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

4-40 UNC threaded lock



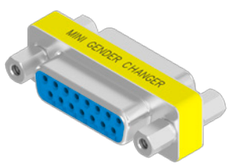

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. |
|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 164A03399X |
| 26 | | | | | 164A03919X |
| 44 | | | | | 164A03929X |
| 62 | | | | | 164A03939X |
| 78 | | | | | DAH5XAAAR04X |

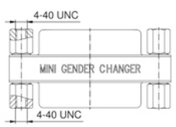
## D-SUB Connectors
### Standard

### Interface adapter, gender changer
### Socket connector - socket connector

*Shell: Steel nickel plated*
*Quality class 3 (A) = 50 mating cycles*

4-40 UNC threaded lock

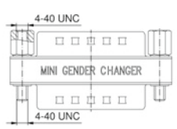



| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. |
|---|---|---|---|---|---|
| 09 | 3 | 125 | | 3 | 320X12519X |
| 15 | | | | | 320X12539X |
| 25 | | | | | 320X10559X |
| 37 | | | | | 320X12559X |

### Interface adapter, gender changer
### Plug connector- plug connector

4-40 UNC threaded lock




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. |
|---|---|---|---|---|---|
| 09 | 3 | 125 | | 3 | 320X12509X |
| 15 | | | | | 320X12529X |
| 25 | | | | | 320X10549X |
| 37 | | | | | 320X12549X |



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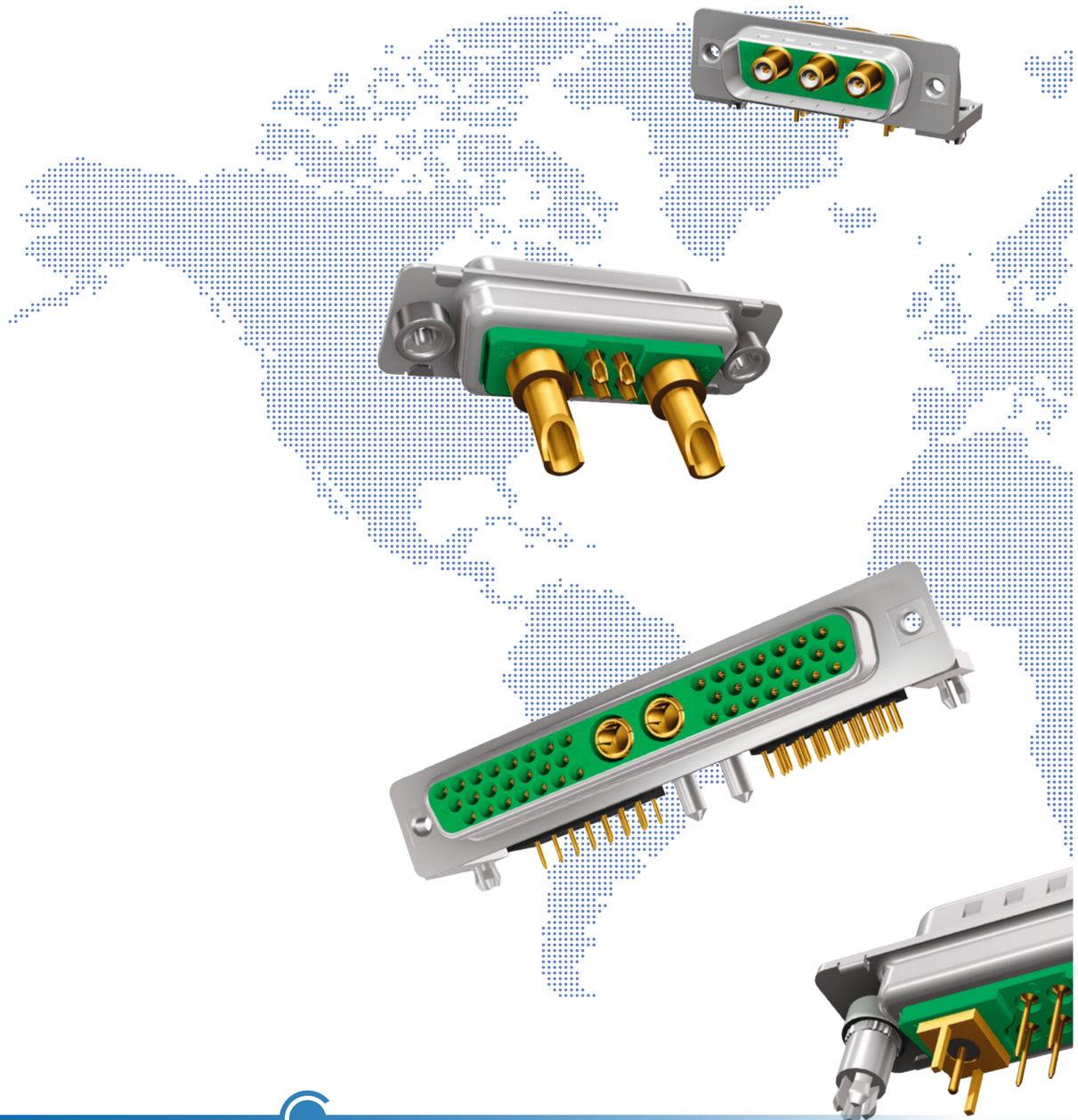
Section 2

# Combination D-SUB Connectors



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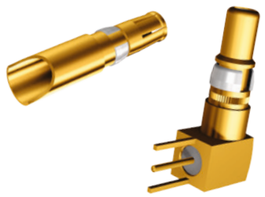

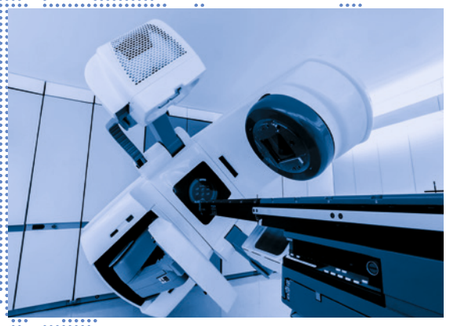

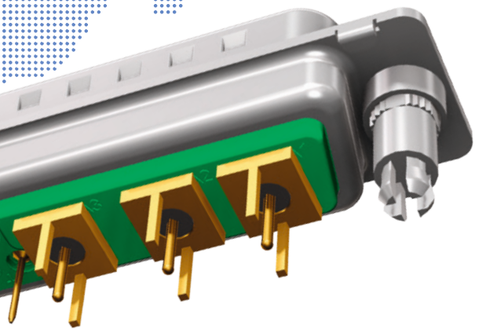

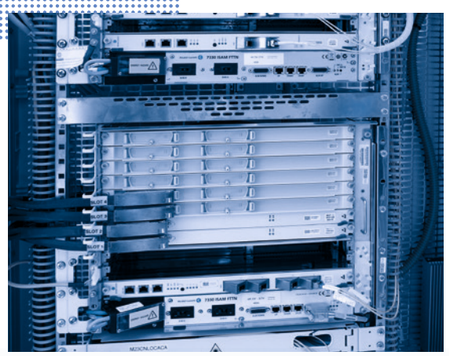



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## Part Number Creator
## Standard

3 003W3 S X X 6 1 A 1 O X

**Shell type**
3 = Steel tin plated
1 = Brass tin plated*
A = Stainless steel*
*on request

**Shell size and design**
1 = 5W1, 2W2C
2 = 3W3, 7W2, 11W1, 3W3C
3 = 5W5, 9W4, 13W3, 17W2, 21W1
4 = 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2
5 = 24W7, 36W4, 43W2, 47W1
Empty positions add "0"= 003W3

**Contact type**
P = Plug connector
S = Socket connector

**Surface/Quality class for SIGNAL contacts**
A = Quality class 3 = 50 mating cycles
B = Quality class 2 = 200 mating cycles*
C = Quality class 1 = 500 mating cycles
J = Special application = > 500 mating cycles (on request)*
X = Crimp and 3W3, 5W5, 8W8, 2W2C, 3W3C (no contacts are supplied with the connector)
*on request

**Termination only for SIGNAL contacts**
K = Crimp without contacts
M = Solder cup
N = Wire wrap, .500"/12.7 mm
P = Press fit
R = Solder pin, straight, .220"/5.6 mm
T = Solder pin, angled, .280" (3.18")/7.19 mm
U = Solder pin, angled, .370"/9.40 mm
X = 3W3, 5W5, 8W8, 2W2C, 3W3C

**Termination for HIGH POWER- or COAXIAL contacts**

**Quality class 3/Quality class 1**
61/41 = Solder cup 10 A
62/42 = Solder cup 20 A
63/43 = Solder cup 30 A
64/44 = Solder cup 40 A
68/48 = Solder pin, straight 20 A, D = .077"/1.95 mm
69/49 = Solder pin, straight 20 A, D = .102"/2.60 mm
70/50 = Solder pin, straight 20 A, D = .110"/2.85 mm
71/51 = Solder pin, straight 30 A, D = .130"/3.18 mm
72/52 = Solder pin, straight 40 A, D = .150"/3.75 mm
59/55 = Solder pin, angled 15 A
73/56 = Solder pin, angled 20 A
74/57 = Solder pin, angled 30 A
75/58 = Solder pin, angled 40 A
77/60 = Solder pin, angled 40 A
81/66 = Solder pin, angled 20 A

**Quality class 3/Quality class 1**
82/67 = Solder pin, angled 30 A
85/65 = Solder pin, angled 30 A
G7/76 = 3 Solder pins Straight 50 Ω
G8/86 = 3 Solder pins Straight 75 Ω
G9/78 = 3 Solder pins angled 50 Ω
H1/79 = 3 Solder pins angled 50 Ω
H2/88 = 3 Solder pins angled 75 Ω
H3/89 = 3 Solder pins angled 75 Ω
H4/80 = 5 Solder pins angled 50 Ω
H5/90 = 5 Solder pins angled 75 Ω
91 = Screw termination 20 A
/P1 = press fit 30 A
/P2 = press fit 30 A
/P4 = press fit 30 A
99 = no high power, coax or crimp contacts loaded

**Mounting style**
A1 = Riveted
A3 = 4-40 UNC threaded insert
A5 = 4-40 UNC threaded rear spacer
A8 = Threaded rear spacer for 4-40 UNC press fit
C2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063"/1.60 mm
E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063"/1.60 mm
E4 = 4-40 UNC threaded rear spacer with PCB clip, PCB .091"/2.30 mm
E6 = 4-40 UNC threaded rear spacer with PCB clip, PCB .126"/3.20 mm
F2 = 4-40 UNC clip and threaded rear spacer with PCB clip, PCB .063"/1.60 mm
F4 = 4-40 UNC clip and threaded rear spacer with PCB clip, PCB .091"/2.30 mm
F6 = 4-40 UNC clip and threaded rear spacer with PCB clip, PCB .126"/3.20 mm
G2 = Metal bracket, 4-40 UNC threaded insert for .370"/9.40 mm
G4 = Metal bracket, 4-40 UNC threaded insert and clip for .370"/9.40 mm
H2 = Metal bracket, 4-40 UNC threaded lock for .370"/9.40 mm
H4 = Metal bracket, 4-40 UNC threaded lock and clip for .370"/9.40 mm
N2 = Metal bracket, 4-40 UNC threaded insert for .280"/7.19 mm
N4 = Metal bracket, 4-40 UNC threaded insert and clip for .280"/7.19 mm
P2 = Metal bracket, 4-40 UNC threaded lock for .280"/7.19 mm
P4 = Metal bracket, 4-40 UNC threaded lock and clip for .280"/7.19 mm
W2 = Threaded rear spacer with 4-40 UNC press in pin

OX = Standard


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# Combination D-SUB Connectors

## Part Number Creator
## High Density

**3 H19W1 S C M 4 1 A 1 0 X**

**Shell type**
3 = Steel tin plated
1 = Brass tin plated*
A = Shell stainless steel*
*on request

**Shell size and design**
2 =19W1
3 =15W4
4 =45W2
H = High Density

**Contact type**
P = Plug connector
S = Socket connector

**Quality class for SIGNAL contacts**
A = Quality class 3 = 50 mating cycles
B = Quality class 2 = 200 mating cycles*
C = Quality class 1 = 500 mating cycles
J = Special application = > 500 mating cycles*
*on request

**Termination only for SIGNAL contacts**
M = Solder cup
P = Press-fit*
R = Solder pin, straight
T = Solder pin, angled .350"/7.98 mm
W = Solder pin, angled .450"/11.43 mm*
*on request

**Termination for HIGH POWER- or COAXIAL contacts**

**Quality class 3/Quality class 1**
61/41 = Solder cup 10 A
62/42 = Solder cup 20 A
63/43 = Solder cup 30 A
64/44 = Solder cup 40 A
68/48 = Solder pin, straight 20 A, D = .077"/1.95 mm
69/49 = Solder pin, straight 20 A, D = .102"/2.60 mm
70/50 = Solder pin, straight 20 A, D = .110"/2.85 mm
71/51 = Solder pin, straight 30 A, D = .130"/3.18 mm
72/52 = Solder pin, straight 40 A, D = .150"/3.75 mm
59/55 = Solder pin, angled 15 A
73/56 = Solder pin, angled 20 A
74/57 = Solder pin, angled 30 A
75/58 = Solder pin, angled 40 A

**Quality class 3/Quality class 1**
G7/76 = 3 Solder pins Straight 50 Ω
G9/78 = 3 Solder pins angled 50 Ω
H4/80 = 5 Solder pins angled 50 Ω
G8/86 = 3 Solder pins Straight 75 Ω
H2/88 = 3 Solder pins angled 75 Ω
H5/90 = 5 Solder pins angled 75 Ω
91 = Screw termination 20 A

**Quality class 1**
P1 = press fit 30 A
P2 = press fit 30 A
P4 = press fit 30 A
99 = no high power, coax or crimp contacts loaded

**Mounting style**
A1 = Riveted
A3 = 4-40 UNC threaded insert
A5 = 4-40 UNC threaded rear spacer
A8 = Threaded rear spacer for 4-40 UNC press fit
E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063"/1.60 mm
E4 = 4-40 UNC threaded rear spacer with PCB clip, PCB .091"/2.30 mm
E6 = 4-40 UNC threaded rear spacer with PCB clip, PCB .126"/3.20 mm
F2 = 4-40 UNC clip and threaded rear spacer with PCB clip, PCB .063"/1.60 mm
F4 = 4-40 UNC clip and threaded rear spacer with PCB clip, PCB .091"/2.30 mm
F6 = 4-40 UNC clip and threaded rear spacer with PCB clip, PCB .126"/3.20 mm
G6 = Metal bracket, 4-40 UNC threaded insert for .350" /7.98 mm
G8 = Metal bracket, 4-40 UNC threaded insert and Clip for .350"/7.98 mm
H6 = Metal bracket, 4-40 UNC threaded lock for .350"/7.98 mm
H8 = Metal bracket, 4-40 UNC threaded lock and Clip for .350"/7.98 mm
W2 = Threaded rear spacer with 4-40 UNC press in pin

0X = Standard



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## Product specification
## Standard

| Basic material | Connector with signal contacts | Coaxial contacts | High power contacts | High voltage contacts |
|---|---|---|---|---|
| Contact | Copper alloy | | | |
| Contact plating | Gold over nickel | | | |
| Insulator (Connector) green standard/ black crimp | PBT GF UL 94 V-0 | | | |
| Insulator (Contacts) | | PTFE/PBTP/PI | | PTFE |
| Shell | Steel tin plated (on request brass tin plated or stainless steel) | | | |
| Retaining clip | | Copper alloy | | |
| **Technical Data** | | | | |
| Test voltage | 1000 V, 50 Hz, 1 min. | 750 V, 50 Hz, 1 min. | 1000 V, 50 Hz, 1 min. | 3.5 kV, 50 Hz, 1 min. |
| Working voltage | 250 V AC/DC | 250 V AC/DC | 250 V AC/DC | max. 2.8 kV |
| Current rating | 7.5 A (UL) / 5 A (CSA, VDE) | 2 A | 10 - 40 A (UL) | 1.5 A |
| Resistance between mated contacts | max. 10 mΩ | max. 2.7 mΩ | max. 1 mΩ | max. 2.7 mΩ |
| Insulation resistance | ≥ 5 GΩ | ≥ 10 GΩ | ≥ 5 GΩ | ≥ 2 x $10^7$ MΩ |
| Characteristic impedance | | 50/75 Ω | | |
| Frequency range | | 0-2 GHz | | |
| VSWR-value according MIL-C-39012 | | ≤ 1.2 @ 1.2 GHz<br>≤ 1.3 @ 1.5 GHz<br>≤ 1,5 @ 2.0 GHz | | |
| Operating temperature | - 55 °C to + 125 °C | | | |
| Insertion force per contact | 3.4 N | 7 N | 7 N | 5 N |
| Extraction force per contact | 0.2 N | 7 N | approx. 5 N | approx. 2.5 N |
| Quality class | A = Quality class 3 = 50 mating cycles<br>B = Quality class 2 = 200 mating cycles<br>C = Quality class 1 = 500 mating cycles | | | |

Technical specifications are subject to change without notice.


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## Product specification
## High Density

| Basic material | Connector with signal contacts | Coaxial contacts | High power contacts | High voltage contacts |
|---|---|---|---|---|
| Contact | Copper alloy | | | |
| Contact plating | Gold over nickel | | | |
| Insulator (Connector) green standard/ black crimp | PBT GF UL 94 V-0 | | | |
| Insulator (Contacts) | | PTFE/PBTP/PI | | PTFE |
| Shell | Steel tin plated (on request brass tin plated or stainless steel) | | | |
| Retaining clip | | Copper alloy | | |
| **Technical Data** | | | | |
| Test voltage | 1000 V, 50 Hz, 1 min. | 750 V, 50 Hz, 1 min. | 1000 V, 50 Hz, 1 min. | 3.5 kV, 50 Hz, 1 min. |
| Working voltage | 60 V AC/DC | 250 V AC/DC | 250 V AC/DC | max. 2.8 kV |
| Current rating | 3 A (UL, VDE) / 2.5 A (CSA) | 2 A | 10 - 40 A (UL) | 1.5 A |
| Resistance between mated contacts | max. 10 mΩ | max. 2.7 mΩ | max. 1 mΩ | max. 2.7 mΩ |
| Insulation resistance | ≥ 5 GΩ | ≥ 10 GΩ | ≥ 5 GΩ | ≥ 2 x $10^7$ MΩ |
| Characteristic impedance | | 50/75 Ω | | |
| Frequency range | | 0-2 GHz | | |
| VSWR-value according MIL-C-39012 | | ≤ 1,2 @ 1.2 GHz<br>≤ 1.3 @ 1.5 GHz<br>≤ 1.5 @ 2.0 GHz | | |
| Operating temperature | - 55 °C to + 125 °C | | | |
| Insertion force per contact | 3.4 N | 7 N | 7 N | 5 N |
| Extraction force per contact | 0.2 N | 7 N | approx. 5 N | approx. 2.5 N |
| Quality class | A = Quality class 3 = 50 mating cycles<br>B = Quality class 2 = 200 mating cycles<br>C = Quality class 1 = 500 mating cycles | | | |

Technical specifications are subject to change without notice.



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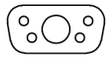
# Combination D-SUB Connectors

## Contact arrangements
Mating side of socket connector

### Shell size 1

5W1



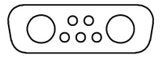
2W2C

### Shell size 2

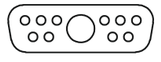
3W3

3W3C

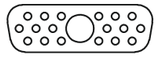
7W2



11W1



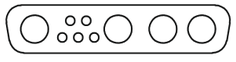
HD 19W1



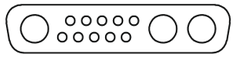
### Shell size 3

5W5

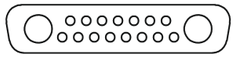
9W4



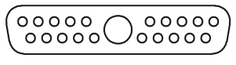
13W3



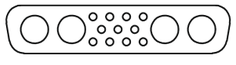
17W2



21W1



HD 15W4

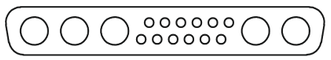


### Shell size 4

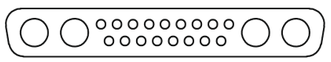
8W8

13W6

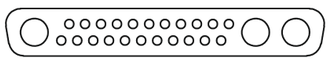
17W5



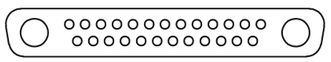
21WA4



25W3



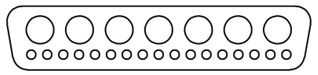
27W2



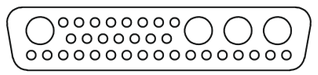
HD 45W2

### Shell size 5

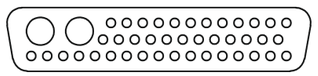
24W7



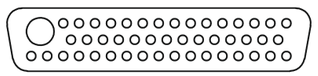
36W4



43W2



47W1



Connectors 3W3, 5W5 and 8W8 with female insulators: Socket contacts are fingerprobe safe according to UL 1950 and CSA 22.2.950.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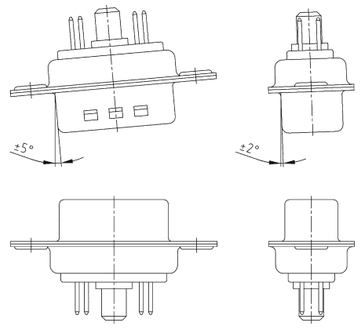
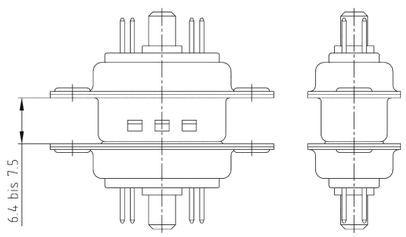
## Mating conditions

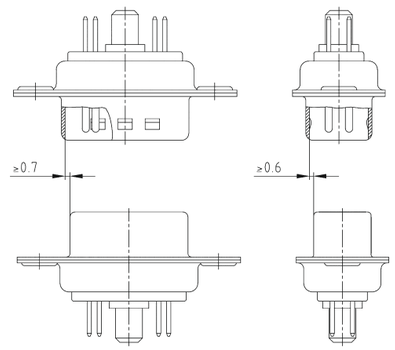
### Max. tilt angle for connector mating




### Range for safe contact

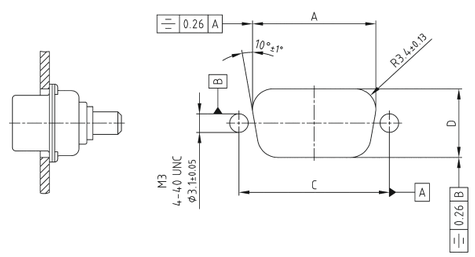



### Lock-in range

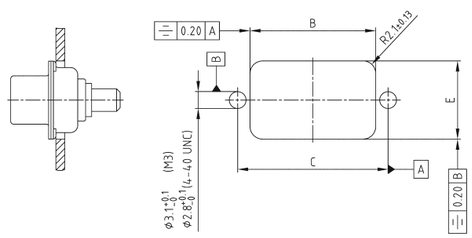



## Panel cut-out

### Back panel mounting




### Front panel mounting




| Shell size | A ± 0.1 | B ± 0.1 | C ± 0.1 | D ± 0.1 | E ± 0.1 |
|---|---|---|---|---|---|
| 1 | 20.50 | 20.90 | 25.00 | 11.40 | 13.00 |
| 2 | 28.80 | 29.20 | 33.30 | 11.40 | 13.00 |
| 3 | 42.50 | 42.90 | 47.04 | 11.40 | 13.00 |
| 4 | 59.10 | 59.40 | 63.50 | 11.40 | 13.00 |
| 5 | 56.30 | 57.00 | 61.10 | 14.10 | 15.80 |

Technical specifications are subject to change without notice.



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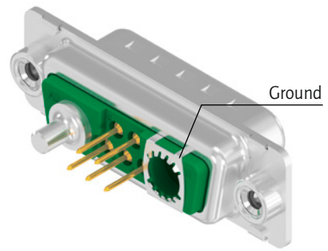
## Accessories

### Grounding for coaxial contacts

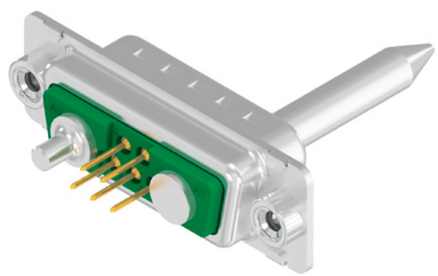
To optimize a perfect ground connection from the coaxial contact (outer conductor) to the metal shell. (Factory installed).




### Guide post

For safe blind mating of male and female connectors under cramped conditions. The corresponding contact positions in the mating connector have to remain empty to allow these guide posts to be admitted when mating the connectors.

**Part Number**
**Guide post** 160X11279X



### Hole plug

The hole plugs can be mounted from the mating side of male and female connectors to close unused contact positions.
**Material:** PBT GF UL 94 V-O
**Colour:** black

**Part Number**
**Hole plug** 160X10939X

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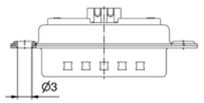
## Combination D-SUB Connectors
With signal contacts

### Solder cup
Precision machined contacts, AWG 20

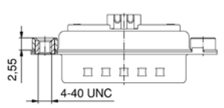
*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Through-hole Ø 3 mm**




| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAM**99**A10X | 3005W1PAM**99**A10X |
| 7W2 | | | | | 3007W2SAM**99**A10X | 3007W2PAM**99**A10X |
| 9W4 | | | | | 3009W4SAM**99**A10X | 3009W4PAM**99**A10X |
| 11W1 | | | | | 3011W1SAM**99**A10X | 3011W1PAM**99**A10X |
| 13W3 | | | | | 3013W3SAM**99**A10X | 3013W3PAM**99**A10X |
| 13W6 | | | | | 3013W6SAM**99**A10X | 3013W6PAM**99**A10X |
| 17W2 | | | | | 3017W2SAM**99**A10X | 3017W2PAM**99**A10X |
| 17W5 | | | | | 3017W5SAM**99**A10X | 3017W5PAM**99**A10X |
| 21W1 | | | | | 3021W1SAM**99**A10X | 3021W1PAM**99**A10X |
| 24W7 | | | | | 3024W7SAM**99**A10X | 3024W7PAM**99**A10X |
| 25W3 | | | | | 3025W3SAM**99**A10X | 3025W3PAM**99**A10X |
| 27W2 | | | | | 3027W2SAM**99**A10X | 3027W2PAM**99**A10X |
| 36W4 | | | | | 3036W4SAM**99**A10X | 3036W4PAM**99**A10X |
| 43W2 | | | | | 3043W2SAM**99**A10X | 3043W2PAM**99**A10X |
| 47W1 | | | | | 3047W1SAM**99**A10X | 3047W1PAM**99**A10X |
| 21WA4 | | | | | 321WA4SAM**99**A10X | 321WA4PAM**99**A10X |

**4-40 UNC threaded insert**




| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAM**99**A30X | 3005W1PAM**99**A30X |
| 7W2 | | | | | 3007W2SAM**99**A30X | 3007W2PAM**99**A30X |
| 9W4 | | | | | 3009W4SAM**99**A30X | 3009W4PAM**99**A30X |
| 11W1 | | | | | 3011W1SAM**99**A30X | 3011W1PAM**99**A30X |
| 13W3 | | | | | 3013W3SAM**99**A30X | 3013W3PAM**99**A30X |
| 13W6 | | | | | 3013W6SAM**99**A30X | 3013W6PAM**99**A30X |
| 17W2 | | | | | 3017W2SAM**99**A30X | 3017W2PAM**99**A30X |
| 17W5 | | | | | 3017W5SAM**99**A30X | 3017W5PAM**99**A30X |
| 21W1 | | | | | 3021W1SAM**99**A30X | 3021W1PAM**99**A30X |
| 24W7 | | | | | 3024W7SAM**99**A30X | 3024W7PAM**99**A30X |
| 25W3 | | | | | 3025W3SAM**99**A30X | 3025W3PAM**99**A30X |
| 27W2 | | | | | 3027W2SAM**99**A30X | 3027W2PAM**99**A30X |
| 36W4 | | | | | 3036W4SAM**99**A30X | 3036W4PAM**99**A30X |
| 43W2 | | | | | 3043W2SAM**99**A30X | 3043W2PAM**99**A30X |
| 47W1 | | | | | 3047W1SAM**99**A30X | 3047W1PAM**99**A30X |
| 21WA4 | | | | | 321WA4SAM**99**A30X | 321WA4PAM**99**A30X |



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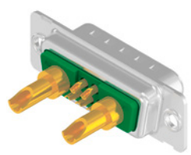
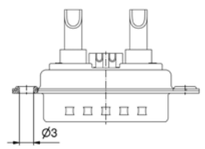
# Combination D-SUB Connectors
## With signal contacts & high power contacts 20 A

### Solder cup
### Precision machined contacts, AWG 20

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Through-hole Ø 3 mm**



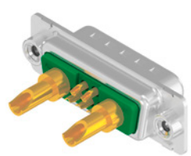


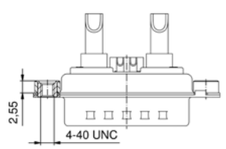

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAM**62**A10X | 3005W1PAM**62**A10X |
| 7W2 | | | | | 3007W2SAM**62**A10X | 3007W2PAM**62**A10X |
| 9W4 | | | | | 3009W4SAM**62**A10X | 3009W4PAM**62**A10X |
| 11W1 | | | | | 3011W1SAM**62**A10X | 3011W1PAM**62**A10X |
| 13W3 | | | | | 3013W3SAM**62**A10X | 3013W3PAM**62**A10X |
| 13W6 | | | | | 3013W6SAM**62**A10X | 3013W6PAM**62**A10X |
| 17W2 | | | | | 3017W2SAM**62**A10X | 3017W2PAM**62**A10X |
| 17W5 | | | | | 3017W5SAM**62**A10X | 3017W5PAM**62**A10X |
| 21W1 | | | | | 3021W1SAM**62**A10X | 3021W1PAM**62**A10X |
| 24W7 | | | | | 3024W7SAM**62**A10X | 3024W7PAM**62**A10X |
| 25W3 | | | | | 3025W3SAM**62**A10X | 3025W3PAM**62**A10X |
| 27W2 | | | | | 3027W2SAM**62**A10X | 3027W2PAM**62**A10X |
| 36W4 | | | | | 3036W4SAM**62**A10X | 3036W4PAM**62**A10X |
| 43W2 | | | | | 3043W2SAM**62**A10X | 3043W2PAM**62**A10X |
| 47W1 | | | | | 3047W1SAM**62**A10X | 3047W1PAM**62**A10X |
| 21WA4 | | | | | 321WA4SAM**62**A10X | 321WA4PAM**62**A10X |

For other Power contacts select code from spread sheet

| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |
| 63 | 10-12 | 30 A |
| 64 | 8-10 | 40 A |

**4-40 UNC threaded insert**






| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAM**62**A30X | 3005W1PAM**62**A30X |
| 7W2 | | | | | 3007W2SAM**62**A30X | 3007W2PAM**62**A30X |
| 9W4 | | | | | 3009W4SAM**62**A30X | 3009W4PAM**62**A30X |
| 11W1 | | | | | 3011W1SAM**62**A30X | 3011W1PAM**62**A30X |
| 13W3 | | | | | 3013W3SAM**62**A30X | 3013W3PAM**62**A30X |
| 13W6 | | | | | 3013W6SAM**62**A30X | 3013W6PAM**62**A30X |
| 17W2 | | | | | 3017W2SAM**62**A30X | 3017W2PAM**62**A30X |
| 17W5 | | | | | 3017W5SAM**62**A30X | 3017W5PAM**62**A30X |
| 21W1 | | | | | 3021W1SAM**62**A30X | 3021W1PAM**62**A30X |
| 24W7 | | | | | 3024W7SAM**62**A30X | 3024W7PAM**62**A30X |
| 25W3 | | | | | 3025W3SAM**62**A30X | 3025W3PAM**62**A30X |
| 27W2 | | | | | 3027W2SAM**62**A30X | 3027W2PAM**62**A30X |
| 36W4 | | | | | 3036W4SAM**62**A30X | 3036W4PAM**62**A30X |
| 43W2 | | | | | 3043W2SAM**62**A30X | 3043W2PAM**62**A30X |
| 47W1 | | | | | 3047W1SAM**62**A30X | 3047W1PAM**62**A30X |
| 21WA4 | | | | | 321WA4SAM**62**A30X | 321WA4PAM**62**A30X |

For other Power contacts select code from spread sheet

| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |
| 63 | 10-12 | 30 A |
| 64 | 8-10 | 40 A |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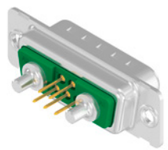
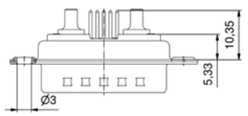
# Combination D-SUB Connectors
## With signal contacts & high power contacts 20 A

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Through-hole Ø 3 mm**

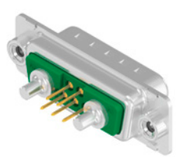


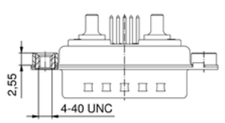



| For other Power contacts select code from spread sheet | | |
|---|---|---|
| Code | Current rating | Diameter solder pin |
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| *No. of poles* | *Current rating signal contacts [A]* | *Working voltage [V]* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**69**A10X | 3005W1PAR**69**A10X |
| 7W2 | | | | | 3007W2SAR**69**A10X | 3007W2PAR**69**A10X |
| 9W4 | | | | | 3009W4SAR**69**A10X | 3009W4PAR**69**A10X |
| 11W1 | | | | | 3011W1SAR**69**A10X | 3011W1PAR**69**A10X |
| 13W3 | | | | | 3013W3SAR**69**A10X | 3013W3PAR**69**A10X |
| 13W6 | | | | | 3013W6SAR**69**A10X | 3013W6PAR**69**A10X |
| 17W2 | | | | | 3017W2SAR**69**A10X | 3017W2PAR**69**A10X |
| 17W5 | | | | | 3017W5SAR**69**A10X | 3017W5PAR**69**A10X |
| 21W1 | | | | | 3021W1SAR**69**A10X | 3021W1PAR**69**A10X |
| 24W7 | | | | | 3024W7SAR**69**A10X | 3024W7PAR**69**A10X |
| 25W3 | | | | | 3025W3SAR**69**A10X | 3025W3PAR**69**A10X |
| 27W2 | | | | | 3027W2SAR**69**A10X | 3027W2PAR**69**A10X |
| 36W4 | | | | | 3036W4SAR**69**A10X | 3036W4PAR**69**A10X |
| 43W2 | | | | | 3043W2SAR**69**A10X | 3043W2PAR**69**A10X |
| 47W1 | | | | | 3047W1SAR**69**A10X | 3047W1PAR**69**A10X |
| 21WA4 | | | | | 321WA4SAR**69**A10X | 321WA4PAR**69**A10X |

**4-40 UNC threaded insert**






| For other Power contacts select code from spread sheet | | |
|---|---|---|
| Code | Current rating | Diameter solder pin |
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**69**A30X | 3005W1PAR**69**A30X |
| 7W2 | | | | | 3007W2SAR**69**A30X | 3007W2PAR**69**A30X |
| 9W4 | | | | | 3009W4SAR**69**A30X | 3009W4PAR**69**A30X |
| 11W1 | | | | | 3011W1SAR**69**A30X | 3011W1PAR**69**A30X |
| 13W3 | | | | | 3013W3SAR**69**A30X | 3013W3PAR**69**A30X |
| 13W6 | | | | | 3013W6SAR**69**A30X | 3013W6PAR**69**A30X |
| 17W2 | | | | | 3017W2SAR**69**A30X | 3017W2PAR**69**A30X |
| 17W5 | | | | | 3017W5SAR**69**A30X | 3017W5PAR**69**A30X |
| 21W1 | | | | | 3021W1SAR**69**A30X | 3021W1PAR**69**A30X |
| 24W7 | | | | | 3024W7SAR**69**A30X | 3024W7PAR**69**A30X |
| 25W3 | | | | | 3025W3SAR**69**A30X | 3025W3PAR**69**A30X |
| 27W2 | | | | | 3027W2SAR**69**A30X | 3027W2PAR**69**A30X |
| 36W4 | | | | | 3036W4SAR**69**A30X | 3036W4PAR**69**A30X |
| 43W2 | | | | | 3043W2SAR**69**A30X | 3043W2PAR**69**A30X |
| 47W1 | | | | | 3047W1SAR**69**A30X | 3047W1PAR**69**A30X |
| 21WA4 | | | | | 321WA4SAR**69**A30X | 321WA4PAR**69**A30X |



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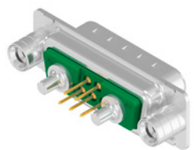
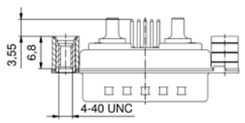
## Combination D-SUB Connectors
### With signal contacts & high power contacts 20 A

### Solder pin, straight
### Precision machined contacts

4-40 UNC threaded rear spacer






*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA,VDE) | 250 | E228329 | 3 | 3005W1SAR**69**A50X | 3005W1PAR**69**A50X |
| 7W2 | | | | | 3007W2SAR**69**A50X | 3007W2PAR**69**A50X |
| 9W4 | | | | | 3009W4SAR**69**A50X | 3009W4PAR**69**A50X |
| 11W1 | | | | | 3011W1SAR**69**A50X | 3011W1PAR**69**A50X |
| 13W3 | | | | | 3013W3SAR**69**A50X | 3013W3PAR**69**A50X |
| 13W6 | | | | | 3013W6SAR**69**A50X | 3013W6PAR**69**A50X |
| 17W2 | | | | | 3017W2SAR**69**A50X | 3017W2PAR**69**A50X |
| 17W5 | | | | | 3017W5SAR**69**A50X | 3017W5PAR**69**A50X |
| 21W1 | | | | | 3021W1SAR**69**A50X | 3021W1PAR**69**A50X |
| 24W7 | | | | | 3024W7SAR**69**A50X | 3024W7PAR**69**A50X |
| 25W3 | | | | | 3025W3SAR**69**A50X | 3025W3PAR**69**A50X |
| 27W2 | | | | | 3027W2SAR**69**A50X | 3027W2PAR**69**A50X |
| 36W4 | | | | | 3036W4SAR**69**A50X | 3036W4PAR**69**A50X |
| 43W2 | | | | | 3043W2SAR**69**A50X | 3043W2PAR**69**A50X |
| 47W1 | | | | | 3047W1SAR**69**A50X | 3047W1PAR**69**A50X |
| 21WA4 | | | | | 321WA4SAR**69**A50X | 321WA4PAR**69**A50X |

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |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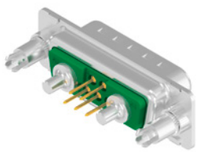
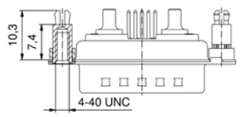
## Combination D-SUB Connectors
### With signal contacts & high power contacts 20 A

### Solder pin, straight, precision machined contacts
### Threaded rear spacer .291"/7.4 mm

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**



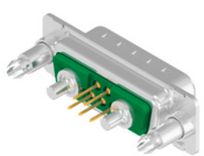


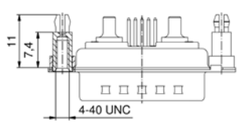

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**69**E20X | 3005W1PAR**69**E20X |
| 7W2 | | | | | 3007W2SAR**69**E20X | 3007W2PAR**69**E20X |
| 9W4 | | | | | 3009W4SAR**69**E20X | 3009W4PAR**69**E20X |
| 11W1 | | | | | 3011W1SAR**69**E20X | 3011W1PAR**69**E20X |
| 13W3 | | | | | 3013W3SAR**69**E20X | 3013W3PAR**69**E20X |
| 13W6 | | | | | 3013W6SAR**69**E20X | 3013W6PAR**69**E20X |
| 17W2 | | | | | 3017W2SAR**69**E20X | 3017W2PAR**69**E20X |
| 17W5 | | | | | 3017W5SAR**69**E20X | 3017W5PAR**69**E20X |
| 21W1 | | | | | 3021W1SAR**69**E20X | 3021W1PAR**69**E20X |
| 24W7 | | | | | 3024W7SAR**69**E20X | 3024W7PAR**69**E20X |
| 25W3 | | | | | 3025W3SAR**69**E20X | 3025W3PAR**69**E20X |
| 27W2 | | | | | 3027W2SAR**69**E20X | 3027W2PAR**69**E20X |
| 36W4 | | | | | 3036W4SAR**69**E20X | 3036W4PAR**69**E20X |
| 43W2 | | | | | 3043W2SAR**69**E20X | 3043W2PAR**69**E20X |
| 47W1 | | | | | 3047W1SAR**69**E20X | 3047W1PAR**69**E20X |
| 21WA4 | | | | | 321WA4SAR**69**E20X | 321WA4PAR**69**E20X |

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

**4-40 UNC threaded rear spacer clip for PCB 2.3 mm**






| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**69**E40X | 3005W1PAR**69**E40X |
| 7W2 | | | | | 3007W2SAR**69**E40X | 3007W2PAR**69**E40X |
| 9W4 | | | | | 3009W4SAR**69**E40X | 3009W4PAR**69**E40X |
| 11W1 | | | | | 3011W1SAR**69**E40X | 3011W1PAR**69**E40X |
| 13W3 | | | | | 3013W3SAR**69**E40X | 3013W3PAR**69**E40X |
| 13W6 | | | | | 3013W6SAR**69**E40X | 3013W6PAR**69**E40X |
| 17W2 | | | | | 3017W2SAR**69**E40X | 3017W2PAR**69**E40X |
| 17W5 | | | | | 3017W5SAR**69**E40X | 3017W5PAR**69**E40X |
| 21W1 | | | | | 3021W1SAR**69**E40X | 3021W1PAR**69**E40X |
| 24W7 | | | | | 3024W7SAR**69**E40X | 3024W7PAR**69**E40X |
| 25W3 | | | | | 3025W3SAR**69**E40X | 3025W3PAR**69**E40X |
| 27W2 | | | | | 3027W2SAR**69**E40X | 3027W2PAR**69**E40X |
| 36W4 | | | | | 3036W4SAR**69**E40X | 3036W4PAR**69**E40X |
| 43W2 | | | | | 3043W2SAR**69**E40X | 3043W2PAR**69**E40X |
| 47W1 | | | | | 3047W1SAR**69**E40X | 3047W1PAR**69**E40X |
| 21WA4 | | | | | 321WA4SAR**69**E40X | 321WA4PAR**69**E40X |

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 69 | 20 A | 2,60 |
| 71 | 30 A | 3,18 |
| 72 | 40 A | 3,75 |



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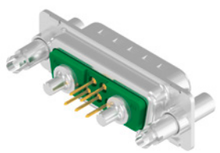
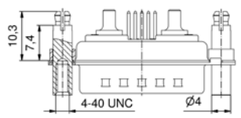
## Combination D-SUB Connectors
**With signal contacts & high power contacts 20 A**

### Solder pin, straight, precision machined contacts
### Threaded rear spacer .291"/7.4 mm

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**



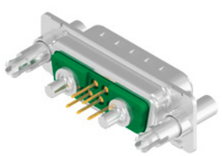


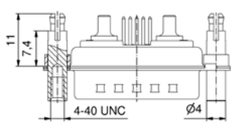

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**69**F20X | 3005W1PAR**69**F20X |
| 7W2 | | | | | 3007W2SAR**69**F20X | 3007W2PAR**69**F20X |
| 9W4 | | | | | 3009W4SAR**69**F20X | 3009W4PAR**69**F20X |
| 11W1 | | | | | 3011W1SAR**69**F20X | 3011W1PAR**69**F20X |
| 13W3 | | | | | 3013W3SAR**69**F20X | 3013W3PAR**69**F20X |
| 13W6 | | | | | 3013W6SAR**69**F20X | 3013W6PAR**69**F20X |
| 17W2 | | | | | 3017W2SAR**69**F20X | 3017W2PAR**69**F20X |
| 17W5 | | | | | 3017W5SAR**69**F20X | 3017W5PAR**69**F20X |
| 21W1 | | | | | 3021W1SAR**69**F20X | 3021W1PAR**69**F20X |
| 24W7 | | | | | 3024W7SAR**69**F20X | 3024W7PAR**69**F20X |
| 25W3 | | | | | 3025W3SAR**69**F20X | 3025W3PAR**69**F20X |
| 27W2 | | | | | 3027W2SAR**69**F20X | 3027W2PAR**69**F20X |
| 36W4 | | | | | 3036W4SAR**69**F20X | 3036W4PAR**69**F20X |
| 43W2 | | | | | 3043W2SAR**69**F20X | 3043W2PAR**69**F20X |
| 47W1 | | | | | 3047W1SAR**69**F20X | 3047W1PAR**69**F20X |
| 21WA4 | | | | | 321WA4SAR**69**F20X | 321WA4PAR**69**F20X |

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

**4-40 UNC front, threaded rear spacer clip for PCB 2.3 mm**






| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**69**F40X | 3005W1PAR**69**F40X |
| 7W2 | | | | | 3007W2SAR**69**F40X | 3007W2PAR**69**F40X |
| 9W4 | | | | | 3009W4SAR**69**F40X | 3009W4PAR**69**F40X |
| 11W1 | | | | | 3011W1SAR**69**F40X | 3011W1PAR**69**F40X |
| 13W3 | | | | | 3013W3SAR**69**F40X | 3013W3PAR**69**F40X |
| 13W6 | | | | | 3013W6SAR**69**F40X | 3013W6PAR**69**F40X |
| 17W2 | | | | | 3017W2SAR**69**F40X | 3017W2PAR**69**F40X |
| 17W5 | | | | | 3017W5SAR**69**F40X | 3017W5PAR**69**F40X |
| 21W1 | | | | | 3021W1SAR**69**F40X | 3021W1PAR**69**F40X |
| 24W7 | | | | | 3024W7SAR**69**F40X | 3024W7PAR**69**F40X |
| 25W3 | | | | | 3025W3SAR**69**F40X | 3025W3PAR**69**F40X |
| 27W2 | | | | | 3027W2SAR**69**F40X | 3027W2PAR**69**F40X |
| 36W4 | | | | | 3036W4SAR**69**F40X | 3036W4PAR**69**F40X |
| 43W2 | | | | | 3043W2SAR**69**F40X | 3043W2PAR**69**F40X |
| 47W1 | | | | | 3047W1SAR**69**F40X | 3047W1PAR**69**F40X |
| 21WA4 | | | | | 321WA4SAR**69**F40X | 321WA4PAR**69**F40X |

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 69 | 20 A | 2,60 |
| 71 | 30 A | 3,18 |
| 72 | 40 A | 3,75 |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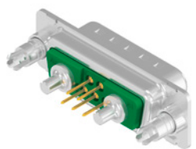
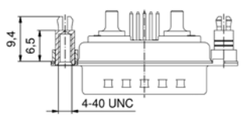
## Combination D-SUB Connectors
**With signal contacts & high power contacts 20 A**

**Solder pin, straight, precision machined contacts**
**Threaded rear spacer .256"/6.5 mm**

**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**






*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| *No. of poles* | *Current rating signal contacts [A]* | *Working voltage [V]* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA,VDE) | 250 | E228329 | 3 | 3005W1SAR**69**C20X | 3005W1PAR**69**C20X |
| 7W2 | | | | | 3007W2SAR**69**C20X | 3007W2PAR**69**C20X |
| 9W4 | | | | | 3009W4SAR**69**C20X | 3009W4PAR**69**C20X |
| 11W1 | | | | | 3011W1SAR**69**C20X | 3011W1PAR**69**C20X |
| 13W3 | | | | | 3013W3SAR**69**C20X | 3013W3PAR**69**C20X |
| 13W6 | | | | | 3013W6SAR**69**C20X | 3013W6PAR**69**C20X |
| 17W2 | | | | | 3017W2SAR**69**C20X | 3017W2PAR**69**C20X |
| 17W5 | | | | | 3017W5SAR**69**C20X | 3017W5PAR**69**C20X |
| 21W1 | | | | | 3021W1SAR**69**C20X | 3021W1PAR**69**C20X |
| 24W7 | | | | | 3024W7SAR**69**C20X | 3024W7PAR**69**C20X |
| 25W3 | | | | | 3025W3SAR**69**C20X | 3025W3PAR**69**C20X |
| 27W2 | | | | | 3027W2SAR**69**C20X | 3027W2PAR**69**C20X |
| 36W4 | | | | | 3036W4SAR**69**C20X | 3036W4PAR**69**C20X |
| 43W2 | | | | | 3043W2SAR**69**C20X | 3043W2PAR**69**C20X |
| 47W1 | | | | | 3047W1SAR**69**C20X | 3047W1PAR**69**C20X |
| 21WA4 | | | | | 321WA4SAR**69**C20X | 321WA4PAR**69**C20X |

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |



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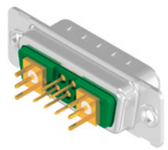
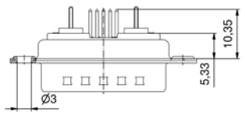
# Combination D-SUB Connectors
## With signal contacts & coaxial contacts 50 Ω

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Through-hole Ø 3 mm**



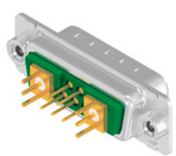


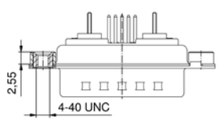

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**76**A10X | 3005W1PAR**76**A10X |
| 7W2 | | | | | 3007W2SAR**76**A10X | 3007W2PAR**76**A10X |
| 9W4 | | | | | 3009W4SAR**76**A10X | 3009W4PAR**76**A10X |
| 11W1 | | | | | 3011W1SAR**76**A10X | 3011W1PAR**76**A10X |
| 13W3 | | | | | 3013W3SAR**76**A10X | 3013W3PAR**76**A10X |
| 13W6 | | | | | 3013W6SAR**76**A10X | 3013W6PAR**76**A10X |
| 17W2 | | | | | 3017W2SAR**76**A10X | 3017W2PAR**76**A10X |
| 17W5 | | | | | 3017W5SAR**76**A10X | 3017W5PAR**76**A10X |
| 21W1 | | | | | 3021W1SAR**76**A10X | 3021W1PAR**76**A10X |
| 24W7 | | | | | 3024W7SAR**76**A10X | 3024W7PAR**76**A10X |
| 25W3 | | | | | 3025W3SAR**76**A10X | 3025W3PAR**76**A10X |
| 27W2 | | | | | 3027W2SAR**76**A10X | 3027W2PAR**76**A10X |
| 36W4 | | | | | 3036W4SAR**76**A10X | 3036W4PAR**76**A10X |
| 43W2 | | | | | 3043W2SAR**76**A10X | 3043W2PAR**76**A10X |
| 47W1 | | | | | 3047W1SAR**76**A10X | 3047W1PAR**76**A10X |
| 21WA4 | | | | | 321WA4SAR**76**A10X | 321WA4PAR**76**A10X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

**4-40 UNC threaded insert**






| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**76**A30X | 3005W1PAR**76**A30X |
| 7W2 | | | | | 3007W2SAR**76**A30X | 3007W2PAR**76**A30X |
| 9W4 | | | | | 3009W4SAR**76**A30X | 3009W4PAR**76**A30X |
| 11W1 | | | | | 3011W1SAR**76**A30X | 3011W1PAR**76**A30X |
| 13W3 | | | | | 3013W3SAR**76**A30X | 3013W3PAR**76**A30X |
| 13W6 | | | | | 3013W6SAR**76**A30X | 3013W6PAR**76**A30X |
| 17W2 | | | | | 3017W2SAR**76**A30X | 3017W2PAR**76**A30X |
| 17W5 | | | | | 3017W5SAR**76**A30X | 3017W5PAR**76**A30X |
| 21W1 | | | | | 3021W1SAR**76**A30X | 3021W1PAR**76**A30X |
| 24W7 | | | | | 3024W7SAR**76**A30X | 3024W7PAR**76**A30X |
| 25W3 | | | | | 3025W3SAR**76**A30X | 3025W3PAR**76**A30X |
| 27W2 | | | | | 3027W2SAR**76**A30X | 3027W2PAR**76**A30X |
| 36W4 | | | | | 3036W4SAR**76**A30X | 3036W4PAR**76**A30X |
| 43W2 | | | | | 3043W2SAR**76**A30X | 3043W2PAR**76**A30X |
| 47W1 | | | | | 3047W1SAR**76**A30X | 3047W1PAR**76**A30X |
| 21WA4 | | | | | 321WA4SAR**76**A30X | 321WA4PAR**76**A30X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |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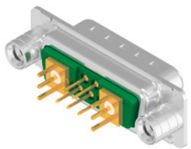
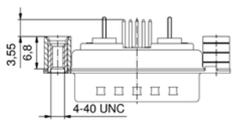
## Combination D-SUB Connectors
With signal contacts & coaxial contacts 50 Ω

### Solder pin, straight
Precision machined contacts

4-40 UNC threaded rear spacer






*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| *No. of poles* | *Current rating signal contacts [A]* | *Working voltage [V]* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA,VDE) | 250 | E228329 | 3 | 3005W1SAR**76**A50X | 3005W1PAR**76**A50X |
| 7W2 | | | | | 3007W2SAR**76**A50X | 3007W2PAR**76**A50X |
| 9W4 | | | | | 3009W4SAR**76**A50X | 3009W4PAR**76**A50X |
| 11W1 | | | | | 3011W1SAR**76**A50X | 3011W1PAR**76**A50X |
| 13W3 | | | | | 3013W3SAR**76**A50X | 3013W3PAR**76**A50X |
| 13W6 | | | | | 3013W6SAR**76**A50X | 3013W6PAR**76**A50X |
| 17W2 | | | | | 3017W2SAR**76**A50X | 3017W2PAR**76**A50X |
| 17W5 | | | | | 3017W5SAR**76**A50X | 3017W5PAR**76**A50X |
| 21W1 | | | | | 3021W1SAR**76**A50X | 3021W1PAR**76**A50X |
| 24W7 | | | | | 3024W7SAR**76**A50X | 3024W7PAR**76**A50X |
| 25W3 | | | | | 3025W3SAR**76**A50X | 3025W3PAR**76**A50X |
| 27W2 | | | | | 3027W2SAR**76**A50X | 3027W2PAR**76**A50X |
| 36W4 | | | | | 3036W4SAR**76**A50X | 3036W4PAR**76**A50X |
| 43W2 | | | | | 3043W2SAR**76**A50X | 3043W2PAR**76**A50X |
| 47W1 | | | | | 3047W1SAR**76**A50X | 3047W1PAR**76**A50X |
| 21WA4 | | | | | 321WA4SAR**76**A50X | 321WA4PAR**76**A50X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |



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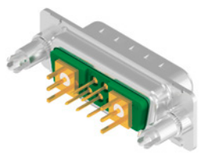
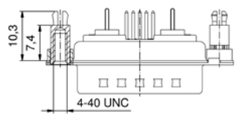
## Combination D-SUB Connectors
**With signal contacts & coaxial contacts 50 Ω**

### Solder pin, straight, precision machined contacts
### Threaded rear spacer .291"/7.4 mm

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**



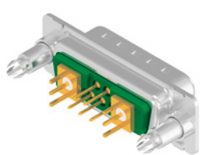


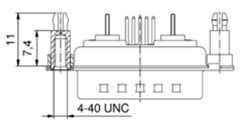

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**76**E20X | 3005W1PAR**76**E20X |
| 7W2 | | | | | 3007W2SAR**76**E20X | 3007W2PAR**76**E20X |
| 9W4 | | | | | 3009W4SAR**76**E20X | 3009W4PAR**76**E20X |
| 11W1 | | | | | 3011W1SAR**76**E20X | 3011W1PAR**76**E20X |
| 13W3 | | | | | 3013W3SAR**76**E20X | 3013W3PAR**76**E20X |
| 13W6 | | | | | 3013W6SAR**76**E20X | 3013W6PAR**76**E20X |
| 17W2 | | | | | 3017W2SAR**76**E20X | 3017W2PAR**76**E20X |
| 17W5 | | | | | 3017W5SAR**76**E20X | 3017W5PAR**76**E20X |
| 21W1 | | | | | 3021W1SAR**76**E20X | 3021W1PAR**76**E20X |
| 24W7 | | | | | 3024W7SAR**76**E20X | 3024W7PAR**76**E20X |
| 25W3 | | | | | 3025W3SAR**76**E20X | 3025W3PAR**76**E20X |
| 27W2 | | | | | 3027W2SAR**76**E20X | 3027W2PAR**76**E20X |
| 36W4 | | | | | 3036W4SAR**76**E20X | 3036W4PAR**76**E20X |
| 43W2 | | | | | 3043W2SAR**76**E20X | 3043W2PAR**76**E20X |
| 47W1 | | | | | 3047W1SAR**76**E20X | 3047W1PAR**76**E20X |
| 21WA4 | | | | | 321WA4SAR**76**E20X | 321WA4PAR**76**E20X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

**4-40 UNC threaded rear spacer clip for PCB 2.3 mm**






| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**76**E40X | 3005W1PAR**76**E40X |
| 7W2 | | | | | 3007W2SAR**76**E40X | 3007W2PAR**76**E40X |
| 9W4 | | | | | 3009W4SAR**76**E40X | 3009W4PAR**76**E40X |
| 11W1 | | | | | 3011W1SAR**76**E40X | 3011W1PAR**76**E40X |
| 13W3 | | | | | 3013W3SAR**76**E40X | 3013W3PAR**76**E40X |
| 13W6 | | | | | 3013W6SAR**76**E40X | 3013W6PAR**76**E40X |
| 17W2 | | | | | 3017W2SAR**76**E40X | 3017W2PAR**76**E40X |
| 17W5 | | | | | 3017W5SAR**76**E40X | 3017W5PAR**76**E40X |
| 21W1 | | | | | 3021W1SAR**76**E40X | 3021W1PAR**76**E40X |
| 24W7 | | | | | 3024W7SAR**76**E40X | 3024W7PAR**76**E40X |
| 25W3 | | | | | 3025W3SAR**76**E40X | 3025W3PAR**76**E40X |
| 27W2 | | | | | 3027W2SAR**76**E40X | 3027W2PAR**76**E40X |
| 36W4 | | | | | 3036W4SAR**76**E40X | 3036W4PAR**76**E40X |
| 43W2 | | | | | 3043W2SAR**76**E40X | 3043W2PAR**76**E40X |
| 47W1 | | | | | 3047W1SAR**76**E40X | 3047W1PAR**76**E40X |
| 21WA4 | | | | | 321WA4SAR**76**E40X | 321WA4PAR**76**E40X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |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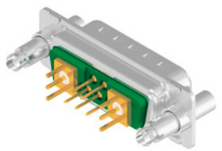
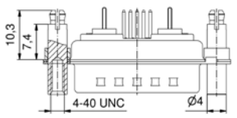
## Combination D-SUB Connectors
With signal contacts & coaxial contacts 50 Ω

### Solder pin, straight, precision machined contacts
Threaded rear spacer .291"/7.4 mm

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm



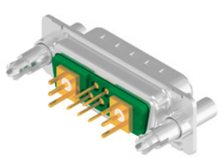


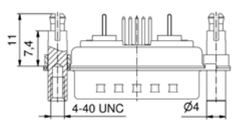

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**76**F20X | 3005W1PAR**76**F20X |
| 7W2 | | | | | 3007W2SAR**76**F20X | 3007W2PAR**76**F20X |
| 9W4 | | | | | 3009W4SAR**76**F20X | 3009W4PAR**76**F20X |
| 11W1 | | | | | 3011W1SAR**76**F20X | 3011W1PAR**76**F20X |
| 13W3 | | | | | 3013W3SAR**76**F20X | 3013W3PAR**76**F20X |
| 13W6 | | | | | 3013W6SAR**76**F20X | 3013W6PAR**76**F20X |
| 17W2 | | | | | 3017W2SAR**76**F20X | 3017W2PAR**76**F20X |
| 17W5 | | | | | 3017W5SAR**76**F20X | 3017W5PAR**76**F20X |
| 21W1 | | | | | 3021W1SAR**76**F20X | 3021W1PAR**76**F20X |
| 24W7 | | | | | 3024W7SAR**76**F20X | 3024W7PAR**76**F20X |
| 25W3 | | | | | 3025W3SAR**76**F20X | 3025W3PAR**76**F20X |
| 27W2 | | | | | 3027W2SAR**76**F20X | 3027W2PAR**76**F20X |
| 36W4 | | | | | 3036W4SAR**76**F20X | 3036W4PAR**76**F20X |
| 43W2 | | | | | 3043W2SAR**76**F20X | 3043W2PAR**76**F20X |
| 47W1 | | | | | 3047W1SAR**76**F20X | 3047W1PAR**76**F20X |
| 21WA4 | | | | | 321WA4SAR**76**F20X | 321WA4PAR**76**F20X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

#### 4-40 UNC front, threaded rear spacer clip for PCB 2.3 mm






| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**76**F40X | 3005W1PAR**76**F40X |
| 7W2 | | | | | 3007W2SAR**76**F40X | 3007W2PAR**76**F40X |
| 9W4 | | | | | 3009W4SAR**76**F40X | 3009W4PAR**76**F40X |
| 11W1 | | | | | 3011W1SAR**76**F40X | 3011W1PAR**76**F40X |
| 13W3 | | | | | 3013W3SAR**76**F40X | 3013W3PAR**76**F40X |
| 13W6 | | | | | 3013W6SAR**76**F40X | 3013W6PAR**76**F40X |
| 17W2 | | | | | 3017W2SAR**76**F40X | 3017W2PAR**76**F40X |
| 17W5 | | | | | 3017W5SAR**76**F40X | 3017W5PAR**76**F40X |
| 21W1 | | | | | 3021W1SAR**76**F40X | 3021W1PAR**76**F40X |
| 24W7 | | | | | 3024W7SAR**76**F40X | 3024W7PAR**76**F40X |
| 25W3 | | | | | 3025W3SAR**76**F40X | 3025W3PAR**76**F40X |
| 27W2 | | | | | 3027W2SAR**76**F40X | 3027W2PAR**76**F40X |
| 36W4 | | | | | 3036W4SAR**76**F40X | 3036W4PAR**76**F40X |
| 43W2 | | | | | 3043W2SAR**76**F40X | 3043W2PAR**76**F40X |
| 47W1 | | | | | 3047W1SAR**76**F40X | 3047W1PAR**76**F40X |
| 21WA4 | | | | | 321WA4SAR**76**F40X | 321WA4PAR**76**F40X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |



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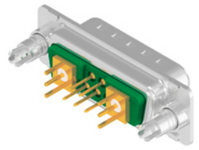
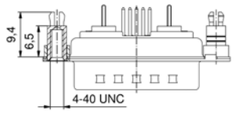
## Combination D-SUB Connectors
### With signal contacts & coaxial contacts 50 Ω

**Solder pin, straight, precision machined contacts**
**Threaded rear spacer .256"/6.5 mm**

4-40 UNC threaded rear spacer clip for PCB 1.6 mm






*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAR**76**C20X | 3005W1PAR**76**C20X |
| 7W2 | | | | | 3007W2SAR**76**C20X | 3007W2PAR**76**C20X |
| 9W4 | | | | | 3009W4SAR**76**C20X | 3009W4PAR**76**C20X |
| 11W1 | | | | | 3011W1SAR**76**C20X | 3011W1PAR**76**C20X |
| 13W3 | | | | | 3013W3SAR**76**C20X | 3013W3PAR**76**C20X |
| 13W6 | | | | | 3013W6SAR**76**C20X | 3013W6PAR**76**C20X |
| 17W2 | | | | | 3017W2SAR**76**C20X | 3017W2PAR**76**C20X |
| 17W5 | | | | | 3017W5SAR**76**C20X | 3017W5PAR**76**C20X |
| 21W1 | | | | | 3021W1SAR**76**C20X | 3021W1PAR**76**C20X |
| 24W7 | | | | | 3024W7SAR**76**C20X | 3024W7PAR**76**C20X |
| 25W3 | | | | | 3025W3SAR**76**C20X | 3025W3PAR**76**C20X |
| 27W2 | | | | | 3027W2SAR**76**C20X | 3027W2PAR**76**C20X |
| 36W4 | | | | | 3036W4SAR**76**C20X | 3036W4PAR**76**C20X |
| 43W2 | | | | | 3043W2SAR**76**C20X | 3043W2PAR**76**C20X |
| 47W1 | | | | | 3047W1SAR**76**C20X | 3047W1PAR**76**C20X |
| 21WA4 | | | | | 321WA4SAR**76**C20X | 321WA4PAR**76**C20X |

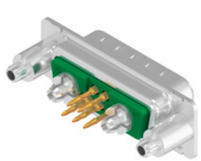
For other coaxial contacts select code from spread sheet

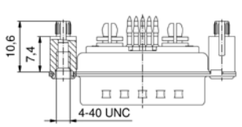
| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

## Combination D-SUB Connectors
### With signal contacts & high power contacts 30 A

**Press-fit, straight**
**Precision machined contacts**

4-40 UNC rear press-fit spacer






*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAP**P1**W20X | 3005W1PAP**P1**W20X |
| 7W2 | | | | | 3007W2SAP**P1**W20X | 3007W2PAP**P1**W20X |
| 9W4 | | | | | 3009W4SAP**P1**W20X | 3009W4PAP**P1**W20X |
| 11W1 | | | | | 3011W1SAP**P1**W20X | 3011W1PAP**P1**W20X |
| 13W3 | | | | | 3013W3SAP**P1**W20X | 3013W3PAP**P1**W20X |
| 13W6 | | | | | 3013W6SAP**P1**W20X | 3013W6PAP**P1**W20X |
| 17W2 | | | | | 3017W2SAP**P1**W20X | 3017W2PAP**P1**W20X |
| 17W5 | | | | | 3017W5SAP**P1**W20X | 3017W5PAP**P1**W20X |
| 21W1 | | | | | 3021W1SAP**P1**W20X | 3021W1PAP**P1**W20X |
| 24W7 | | | | | 3024W7SAP**P1**W20X | 3024W7PAP**P1**W20X |
| 25W3 | | | | | 3025W3SAP**P1**W20X | 3025W3PAP**P1**W20X |
| 27W2 | | | | | 3027W2SAP**P1**W20X | 3027W2PAP**P1**W20X |
| 36W4 | | | | | 3036W4SAP**P1**W20X | 3036W4PAP**P1**W20X |
| 43W2 | | | | | 3043W2SAP**P1**W20X | 3043W2PAP**P1**W20X |
| 47W1 | | | | | 3047W1SAP**P1**W20X | 3047W1PAP**P1**W20X |
| 21WA4 | | | | | 321WA4SAP**P1**W20X | 321WA4PAP**P1**W20X |

For other Power contacts select code from spread sheet

| Code | Current rating | Hole diameter PCB |
|---|---|---|
| P1 | 30 A | 3.11 |
| P2 | 30 A | 3.25 |
| P4 | 30 A | 3.20 |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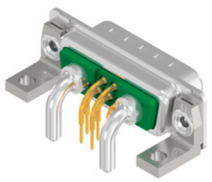
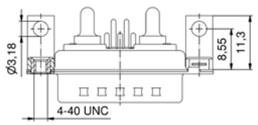
## Combination D-SUB Connectors
### With signal contacts & high power contacts 20 A

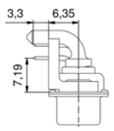
### Solder pin, angled, 3.18"/7.19 mm
### Precision machined contacts, metal bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**





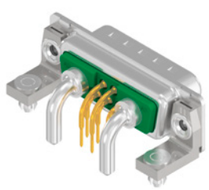



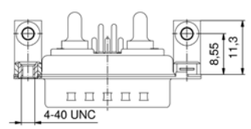

For other Power contacts select code from spread sheet

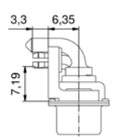
| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |
| 81 | 5 | 20 A | 2.85 |
| 82 | 5 | 30 A | 3.20 |
| 85 | 5 | 30 A | 3.20 |
| 77 | 5 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact |
|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAT**73**N20X |
| 7W2 | | | | | 3007W2SAT**73**N20X |
| 9W4 | | | | | 3009W4SAT**73**N20X |
| 11W1 | | | | | 3011W1SAT**73**N20X |
| 13W3 | | | | | 3013W3SAT**73**N20X |
| 13W6 | | | | | 3013W6SAT**73**N20X |
| 17W2 | | | | | 3017W2SAT**73**N20X |
| 17W5 | | | | | 3017W5SAT**73**N20X |
| 21W1 | | | | | 3021W1SAT**73**N20X |
| 24W7 | | | | | 3024W7SAT**81**N20X |
| 25W3 | | | | | 3025W3SAT**73**N20X |
| 27W2 | | | | | 3027W2SAT**73**N20X |
| 36W4 | | | | | 3036W4SAT**81**N20X |
| 43W2 | | | | | 3043W2SAT**81**N20X |
| 47W1 | | | | | 3047W1SAT**81**N20X |
| 21WA4 | | | | | 321WA4SAT**73**N20X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






For other Power contacts select code from spread sheet

| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |
| 81 | 5 | 20 A | 2.85 |
| 82 | 5 | 30 A | 3.20 |
| 85 | 5 | 30 A | 3.20 |
| 77 | 5 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact |
|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAT**73**N40X |
| 7W2 | | | | | 3007W2SAT**73**N40X |
| 9W4 | | | | | 3009W4SAT**73**N40X |
| 11W1 | | | | | 3011W1SAT**73**N40X |
| 13W3 | | | | | 3013W3SAT**73**N40X |
| 13W6 | | | | | 3013W6SAT**73**N40X |
| 17W2 | | | | | 3017W2SAT**73**N40X |
| 17W5 | | | | | 3017W5SAT**73**N40X |
| 21W1 | | | | | 3021W1SAT**73**N40X |
| 24W7 | | | | | 3024W7SAT**81**N40X |
| 25W3 | | | | | 3025W3SAT**73**N40X |
| 27W2 | | | | | 3027W2SAT**73**N40X |
| 36W4 | | | | | 3036W4SAT**81**N40X |
| 43W2 | | | | | 3043W2SAT**81**N40X |
| 47W1 | | | | | 3047W1SAT**81**N40X |
| 21WA4 | | | | | 321WA4SAT**73**N40X |



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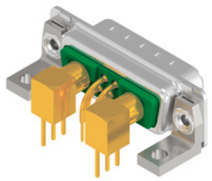
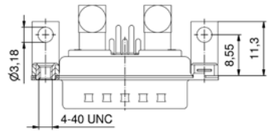
## Combination D-SUB Connectors
**With signal contacts & coaxial contacts 50 Ω**

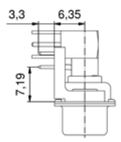
### Solder pin, angled, 3.18"/7.19 mm
**Precision machined contacts, metal bracket**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**



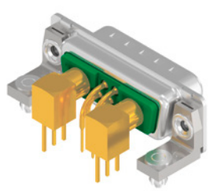


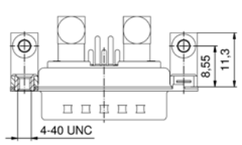



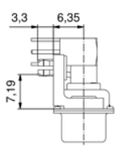

| For other coaxial contacts select code from spread sheet | | |
|---|---|---|
| Code | Impedance | Shellsize |
| 78 | 50 Ω | 1-4 |
| 79 | 50 Ω | 5 |
| 88 | 75 Ω | 1-4 |
| 89 | 75 Ω | 5 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact |
|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAT**78**N20X |
| 7W2 | | | | | 3007W2SAT**78**N20X |
| 9W4 | | | | | 3009W4SAT**78**N20X |
| 11W1 | | | | | 3011W1SAT**78**N20X |
| 13W3 | | | | | 3013W3SAT**78**N20X |
| 13W6 | | | | | 3013W6SAT**78**N20X |
| 17W2 | | | | | 3017W2SAT**78**N20X |
| 17W5 | | | | | 3017W5SAT**78**N20X |
| 21W1 | | | | | 3021W1SAT**78**N20X |
| 24W7 | | | | | 3024W7SAT**79**N20X |
| 25W3 | | | | | 3025W3SAT**78**N20X |
| 27W2 | | | | | 3027W2SAT**78**N20X |
| 36W4 | | | | | 3036W4SAT**79**N20X |
| 43W2 | | | | | 3043W2SAT**79**N20X |
| 47W1 | | | | | 3047W1SAT**79**N20X |
| 21WA4 | | | | | 321WA4SAT**78**N20X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| For other coaxial contacts select code from spread sheet | | |
|---|---|---|
| Code | Impedance | Shellsize |
| 78 | 50 Ω | 1-4 |
| 79 | 50 Ω | 5 |
| 88 | 75 Ω | 1-4 |
| 89 | 75 Ω | 5 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact |
|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAT**78**N40X |
| 7W2 | | | | | 3007W2SAT**78**N40X |
| 9W4 | | | | | 3009W4SAT**78**N40X |
| 11W1 | | | | | 3011W1SAT**78**N40X |
| 13W3 | | | | | 3013W3SAT**78**N40X |
| 13W6 | | | | | 3013W6SAT**78**N40X |
| 17W2 | | | | | 3017W2SAT**78**N40X |
| 17W5 | | | | | 3017W5SAT**78**N40X |
| 21W1 | | | | | 3021W1SAT**78**N40X |
| 24W7 | | | | | 3024W7SAT**79**N40X |
| 25W3 | | | | | 3025W3SAT**78**N40X |
| 27W2 | | | | | 3027W2SAT**78**N40X |
| 36W4 | | | | | 3036W4SAT**79**N40X |
| 43W2 | | | | | 3043W2SAT**79**N40X |
| 47W1 | | | | | 3047W1SAT**79**N40X |
| 21WA4 | | | | | 321WA4SAT**78**N40X |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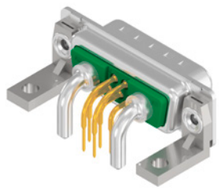
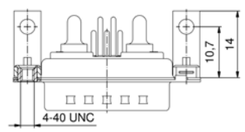
## Combination D-SUB Connectors
**With signal contacts & high power contacts 20 A**

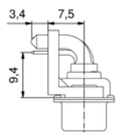
### Solder pin, angled, 3.70"/9.4 mm
**Precision machined contacts, metal bracket**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**





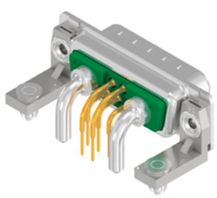



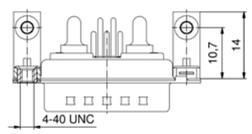

For other Power contacts select code from spread sheet

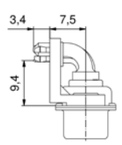
| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |
| 81 | 5 | 20 A | 2.85 |
| 82 | 5 | 30 A | 3.20 |
| 85 | 5 | 30 A | 3.20 |
| 77 | 5 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact |
|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAU**73**G20X |
| 7W2 | | | | | 3007W2SAU**73**G20X |
| 9W4 | | | | | 3009W4SAU**73**G20X |
| 11W1 | | | | | 3011W1SAU**73**G20X |
| 13W3 | | | | | 3013W3SAU**73**G20X |
| 13W6 | | | | | 3013W6SAU**73**G20X |
| 17W2 | | | | | 3017W2SAU**73**G20X |
| 17W5 | | | | | 3017W5SAU**73**G20X |
| 21W1 | | | | | 3021W1SAU**73**G20X |
| 24W7 | | | | | 3024W7SAU**81**G20X |
| 25W3 | | | | | 3025W3SAU**73**G20X |
| 27W2 | | | | | 3027W2SAU**73**G20X |
| 36W4 | | | | | 3036W4SAU**81**G20X |
| 43W2 | | | | | 3043W2SAU**81**G20X |
| 47W1 | | | | | 3047W1SAU**81**G20X |
| 21WA4 | | | | | 321WA4SAU**73**G20X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






For other Power contacts select code from spread sheet

| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |
| 81 | 5 | 20 A | 2.85 |
| 82 | 5 | 30 A | 3.20 |
| 85 | 5 | 30 A | 3.20 |
| 77 | 5 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact |
|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAU**73**G40X |
| 7W2 | | | | | 3007W2SAU**73**G40X |
| 9W4 | | | | | 3009W4SAU**73**G40X |
| 11W1 | | | | | 3011W1SAU**73**G40X |
| 13W3 | | | | | 3013W3SAU**73**G40X |
| 13W6 | | | | | 3013W6SAU**73**G40X |
| 17W2 | | | | | 3017W2SAU**73**G40X |
| 17W5 | | | | | 3017W5SAU**73**G40X |
| 21W1 | | | | | 3021W1SAU**73**G40X |
| 24W7 | | | | | 3024W7SAU**81**G40X |
| 25W3 | | | | | 3025W3SAU**73**G40X |
| 27W2 | | | | | 3027W2SAU**73**G40X |
| 36W4 | | | | | 3036W4SAU**81**G40X |
| 43W2 | | | | | 3043W2SAU**81**G40X |
| 47W1 | | | | | 3047W1SAU**81**G40X |
| 21WA4 | | | | | 321WA4SAU**73**G40X |



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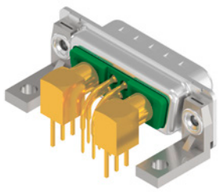
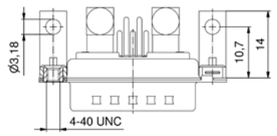
## Combination D-SUB Connectors
**With signal contacts & coaxial contacts 50 Ω**

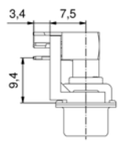
### Solder pin, angled, 3.70"/9.4 mm
**Precision machined contacts, metal bracket**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**





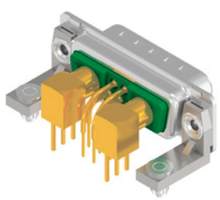



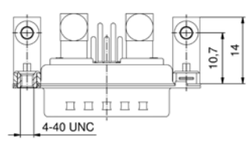

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact |
|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAU**78**G20X |
| 7W2 | | | | | 3007W2SAU**78**G20X |
| 9W4 | | | | | 3009W4SAU**78**G20X |
| 11W1 | | | | | 3011W1SAU**78**G20X |
| 13W3 | | | | | 3013W3SAU**78**G20X |
| 13W6 | | | | | 3013W6SAU**78**G20X |
| 17W2 | | | | | 3017W2SAU**78**G20X |
| 17W5 | | | | | 3017W5SAU**78**G20X |
| 21W1 | | | | | 3021W1SAU**78**G20X |
| 24W7 | | | | | 3024W7SAU**79**G20X |
| 25W3 | | | | | 3025W3SAU**78**G20X |
| 27W2 | | | | | 3027W2SAU**78**G20X |
| 36W4 | | | | | 3036W4SAU**79**G20X |
| 43W2 | | | | | 3043W2SAU**79**G20X |
| 47W1 | | | | | 3047W1SAU**79**G20X |
| 21WA4 | | | | | 321WA4SAU**78**G20X |

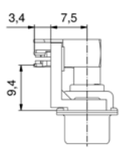
For other coaxial contacts select code from spread sheet

| Code | Impedance | Shellsize |
|---|---|---|
| 78 | 50 Ω | 1-4 |
| 79 | 50 Ω | 5 |
| 88 | 75 Ω | 1-4 |
| 89 | 75 Ω | 5 |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact |
|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 250 | E228329 | 3 | 3005W1SAU**78**G40X |
| 7W2 | | | | | 3007W2SAU**78**G40X |
| 9W4 | | | | | 3009W4SAU**78**G40X |
| 11W1 | | | | | 3011W1SAU**78**G40X |
| 13W3 | | | | | 3013W3SAU**78**G40X |
| 13W6 | | | | | 3013W6SAU**78**G40X |
| 17W2 | | | | | 3017W2SAU**78**G40X |
| 17W5 | | | | | 3017W5SAU**78**G40X |
| 21W1 | | | | | 3021W1SAU**78**G40X |
| 24W7 | | | | | 3024W7SAU**79**G40X |
| 25W3 | | | | | 3025W3SAU**78**G40X |
| 27W2 | | | | | 3027W2SAU**78**G40X |
| 36W4 | | | | | 3036W4SAU**79**G40X |
| 43W2 | | | | | 3043W2SAU**79**G40X |
| 47W1 | | | | | 3047W1SAU**79**G40X |
| 21WA4 | | | | | 321WA4SAU**78**G40X |

For other coaxial contacts select code from spread sheet

| Code | Impedance | Shellsize |
|---|---|---|
| 78 | 50 Ω | 1-4 |
| 79 | 50 Ω | 5 |
| 88 | 75 Ω | 1-4 |
| 89 | 75 Ω | 5 |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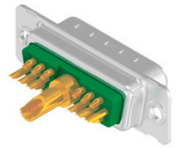
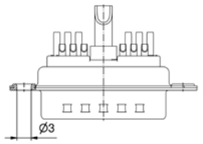
# Combination D-SUB Connectors High Density
## With signal contacts & high power contacts 20 A

### Solder cup
### Precision machined contacts, AWG 22

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Through-hole Ø 3 mm**



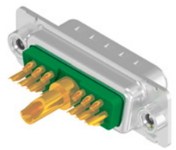


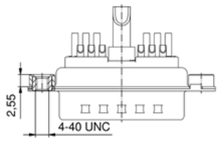

For other Power contacts select code from spread sheet

| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |
| 63 | 10-12 | 30 A |
| 64 | 8-10 | 40 A |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL VDE) / 25 (CSA) | 60 | 3 | 3H15W4SAM**62**A10X | 3H15W4PAM**62**A10X |
| 19W1 | | | | 3H19W1SAM**62**A10X | 3H19W1PAM**62**A10X |
| 45W2 | | | | 3H45W2SAM**62**A10X | 3H45W2PAM**62**A10X |

**4-40 UNC threaded insert**






For other Power contacts select code from spread sheet

| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |
| 63 | 10-12 | 30 A |
| 64 | 8-10 | 40 A |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL VDE) / 25 (CSA) | 60 | 3 | 3H15W4SAM**62**A30X | 3H15W4PAM**62**A30X |
| 19W1 | | | | 3H19W1SAM**62**A30X | 3H19W1PAM**62**A30X |
| 45W2 | | | | 3H45W2SAM**62**A30X | 3H45W2PAM**62**A30X |



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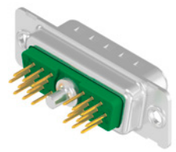
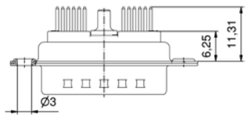
# Combination D-SUB Connectors High Density
## With signal contacts & high power contacts 20 A

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

#### Through-hole Ø 3 mm



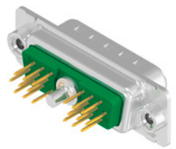


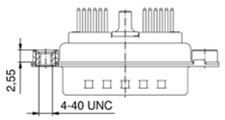

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL VDE) / 25 (CSA) | 60 | 3 | 3H15W4SAR**69**A10X | 3H15W4PAR**69**A10X |
| 19W1 | | | | 3H19W1SAR**69**A10X | 3H19W1PAR**69**A10X |
| 45W2 | | | | 3H45W2SAR**69**A10X | 3H45W2PAR**69**A10X |

#### 4-40 UNC threaded insert



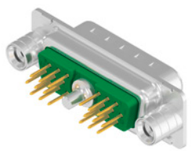


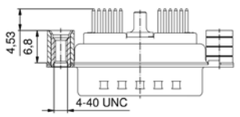

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL VDE) / 25 (CSA) | 60 | 3 | 3H15W4SAR**69**A30X | 3H15W4PAR**69**A30X |
| 19W1 | | | | 3H19W1SAR**69**A30X | 3H19W1PAR**69**A30X |
| 45W2 | | | | 3H45W2SAR**69**A30X | 3H45W2PAR**69**A30X |

#### 4-40 UNC threaded rear spacer






For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL VDE) / 25 (CSA) | 60 | 3 | 3H15W4SAR**69**A50X | 3H15W4PAR**69**A50X |
| 19W1 | | | | 3H19W1SAR**69**A50X | 3H19W1PAR**69**A50X |
| 45W2 | | | | 3H45W2SAR**69**A50X | 3H45W2PAR**69**A50X |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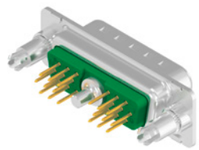
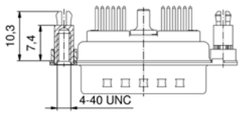
# Combination D-SUB Connectors High Density
## With signal contacts & high power contacts 20 A

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded rear spacer clip for PCB 1.6 mm



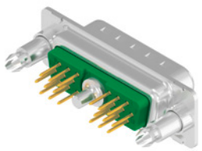


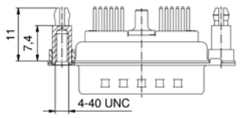

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAR**69**E20X | 3H15W4PAR**69**E20X |
| 19W1 | | | | 3H19W1SAR**69**E20X | 3H19W1PAR**69**E20X |
| 45W2 | | | | 3H45W2SAR**69**E20X | 3H45W2PAR**69**E20X |

#### 4-40 UNC threaded rear spacer clip for PCB 2.3 mm



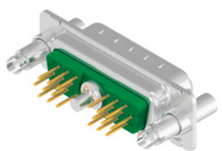


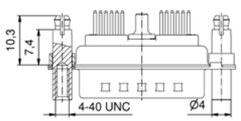

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 69 | 20 A | 2,60 |
| 71 | 30 A | 3,18 |
| 72 | 40 A | 3,75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAR**69**E40X | 3H15W4PAR**69**E40X |
| 19W1 | | | | 3H19W1SAR**69**E40X | 3H19W1PAR**69**E40X |
| 45W2 | | | | 3H45W2SAR**69**E40X | 3H45W2PAR**69**E40X |

#### 4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm






For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAR**69**F20X | 3H15W4PAR**69**F20X |
| 19W1 | | | | 3H19W1SAR**69**F20X | 3H19W1PAR**69**F20X |
| 45W2 | | | | 3H45W2SAR**69**F20X | 3H45W2PAR**69**F20X |



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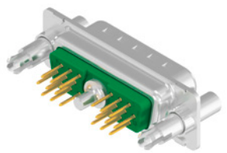
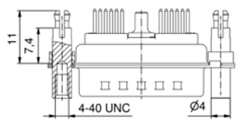
## Combination D-SUB Connectors High Density
**With signal contacts & high power contacts 20 A**

### Solder pin, straight
**Precision machined contacts**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC front, threaded rear spacer clip for PCB 2.3 mm**






| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAR**69**F40X | 3H15W4PAR**69**F40X |
| 19W1 | | | | 3H19W1SAR**69**F40X | 3H19W1PAR**69**F40X |
| 45W2 | | | | 3H45W2SAR**69**F40X | 3H45W2PAR**69**F40X |

For other Power contacts select code from spread sheet

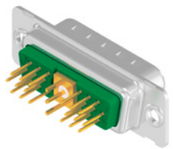
| Code | Current rating | Diameter solder pin |
|---|---|---|
| 69 | 20 A | 2,60 |
| 71 | 30 A | 3,18 |
| 72 | 40 A | 3,75 |

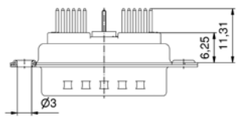
## Combination D-SUB Connectors High Density
**With signal contacts & coaxial contacts 50 Ω**

### Solder pin, straight
**Precision machined contacts**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Through-hole Ø 3 mm**



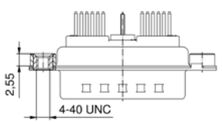



| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAR**76**A10X | 3H15W4PAR**76**A10X |
| 19W1 | | | | 3H19W1SAR**76**A10X | 3H19W1PAR**76**A10X |
| 45W2 | | | | 3H45W2SAR**76**A10X | 3H45W2PAR**76**A10X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

**4-40 UNC threaded insert**




| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAR**76**A30X | 3H15W4PAR**76**A30X |
| 19W1 | | | | 3H19W1SAR**76**A30X | 3H19W1PAR**76**A30X |
| 45W2 | | | | 3H45W2SAR**76**A30X | 3H45W2PAR**76**A30X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |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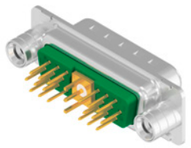
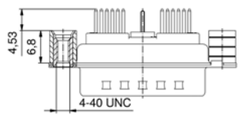
# Combination D-SUB Connectors High Density
## With signal contacts & coaxial contacts 50 Ω

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded rear spacer



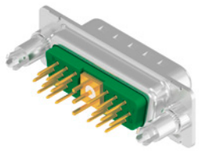


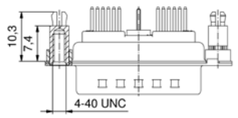

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAR**76**A50X | 3H15W4PAR**76**A50X |
| 19W1 | | | | 3H19W1SAR**76**A50X | 3H19W1PAR**76**A50X |
| 45W2 | | | | 3H45W2SAR**76**A50X | 3H45W2PAR**76**A50X |

#### 4-40 UNC threaded rear spacer clip for PCB 1.6 mm



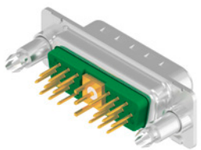


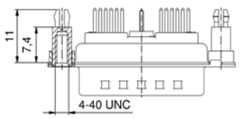

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAR**76**E20X | 3H15W4PAR**76**E20X |
| 19W1 | | | | 3H19W1SAR**76**E20X | 3H19W1PAR**76**E20X |
| 45W2 | | | | 3H45W2SAR**76**E20X | 3H45W2PAR**76**E20X |

#### 4-40 UNC threaded rear spacer clip for PCB 2.3 mm






For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAR**76**E40X | 3H15W4PAR**76**E40X |
| 19W1 | | | | 3H19W1SAR**76**E40X | 3H19W1PAR**76**E40X |
| 45W2 | | | | 3H45W2SAR**76**E40X | 3H45W2PAR**76**E40X |



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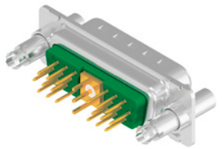
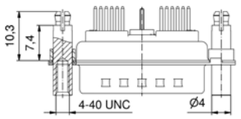
# Combination D-SUB Connectors High Density
## With signal contacts & coaxial contacts 50 Ω

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC front, threaded rear spacer clip for PCB 1,6 mm



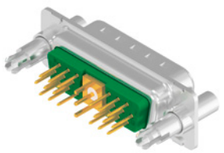


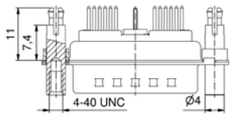

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL,VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAR**76**F20X | 3H15W4PAR**76**F20X |
| 19W1 | | | | 3H19W1SAR**76**F20X | 3H19W1PAR**76**F20X |
| 45W2 | | | | 3H45W2SAR**76**F20X | 3H45W2PAR**76**F20X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

#### 4-40 UNC front, threaded rear spacer clip for PCB 2,3 mm






| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL,VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAR**76**F40X | 3H15W4PAR**76**F40X |
| 19W1 | | | | 3H19W1SAR**76**F40X | 3H19W1PAR**76**F40X |
| 45W2 | | | | 3H45W2SAR**76**F40X | 3H45W2PAR**76**F40X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |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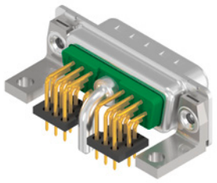
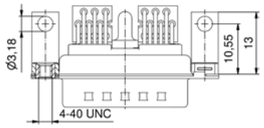
## Combination D-SUB Connectors High Density
**With signal contacts & high power contacts 20 A**

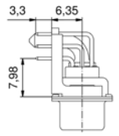
### Solder pin, angled, 3.50"/7.98 mm
**Precision machined contacts, metal bracket**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**





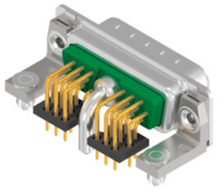



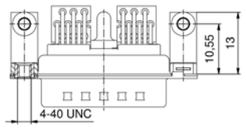

For other Power contacts select code from spread sheet

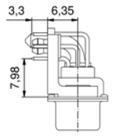
| Code | Current rating | Diameter solder pin |
|---|---|---|
| 59 | 15 A | 1.90 |
| 73 | 20 A | 2.85 |
| 74 | 30 A | 3.20 |
| 75 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL, VDE) / 25 (CSA) | 60 | 3 | 3H15W4SAT**73**G60X | 3H15W4PAT**73**G60X |
| 19W1 | | | | 3H19W1SAT**73**G60X | 3H19W1PAT**73**G60X |
| 45W2 | | | | 3H45W2SAT**73**G60X | 3H45W2PAT**73**G60X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 59 | 15 A | 1.90 |
| 73 | 20 A | 2.85 |
| 74 | 30 A | 3.20 |
| 75 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL, VDE) / 25 (CSA) | 60 | 3 | 3H15W4SAT**73**G80X | 3H15W4PAT**73**G80X |
| 19W1 | | | | 3H19W1SAT**73**G80X | 3H19W1PAT**73**G80X |
| 45W2 | | | | 3H45W2SAT**73**G80X | 3H45W2PAT**73**G80X |



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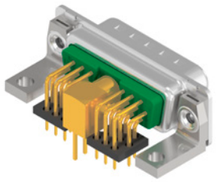
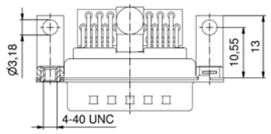
## Combination D-SUB Connectors High Density
**With signal contacts & coaxial contacts 50 Ω**

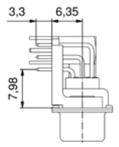
### Solder pin, angled, 3.50"/7.98 mm
**Precision machined contacts, metal bracket**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded insert





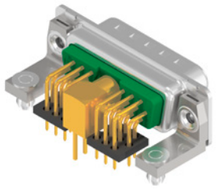



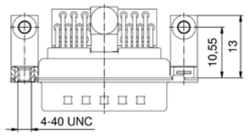

For other coaxial contacts select code from spread sheet

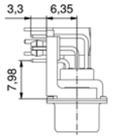
| Code | Impedance |
|---|---|
| 78 | 50 Ω |
| 88 | 75 Ω |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAT**78**G60X | 3H15W4PAT**78**G60X |
| 19W1 | | | | 3H19W1SAT**78**G60X | 3H19W1PAT**78**G60X |
| 45W2 | | | | 3H45W2SAT**78**G60X | 3H45W2PAT**78**G60X |

#### Clip for PCB 1.6 mm, 4-40 UNC threaded insert






For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 78 | 50 Ω |
| 88 | 75 Ω |

| No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15W4 | 3 (UL VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAT**78**G80X | 3H15W4PAT**78**G80X |
| 19W1 | | | | 3H19W1SAT**78**G80X | 3H19W1PAT**78**G80X |
| 45W2 | | | | 3H45W2SAT**78**G80X | 3H45W2PAT**78**G80X |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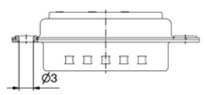
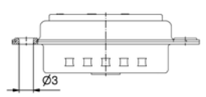
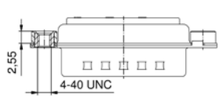
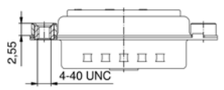
## Combination D-SUB Connectors
Without contacts

For straight high power, coaxial or
High voltage contacts

*Shell: Steel tin plated*
*On request:*
- *Brass tin plated or stainless steel*
- *M3 thread*

| | No. of poles | UL-File | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| **Through-hole Ø 3 mm** | | | | |
|   | 3W3 | E228329 | 3003W3SXX**99**A10X | 3003W3PXX**99**A10X |
| | 5W5 | | 3005W5SXX**99**A10X | 3005W5PXX**99**A10X |
| | 8W8 | | 3008W8SXX**99**A10X | 3008W8PXX**99**A10X |
| **Through-hole Ø 3 mm, coded version** | | | | |
|   | 2W2C | E228329 | 302W2CSXX**99**A10X | 302W2CPXX**99**A10X |
| | 3W3C | | 303W3CSXX**99**A10X | 303W3CPXX**99**A10X |
| **4-40 UNC threaded insert** | | | | |
|   | 3W3 | E228329 | 3003W3SXX**99**A30X | 3003W3PXX**99**A30X |
| | 5W5 | | 3005W5SXX**99**A30X | 3005W5PXX**99**A30X |
| | 8W8 | | 3008W8SXX**99**A30X | 3008W8PXX**99**A30X |
| **4-40 UNC threaded insert, coded version** | | | | |
|   | 2W2C | E228329 | 302W2CSXX**99**A30X | 302W2CPXX**99**A30X |
| | 3W3C | | 303W3CSXX**99**A30X | 303W3CPXX**99**A30X |



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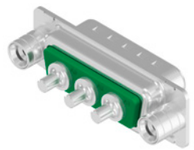
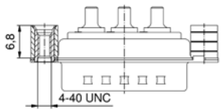
# Combination D-SUB Connectors
## With high power contacts 20 A

### Solder pin, straight

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded rear spacer



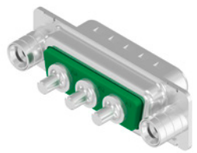


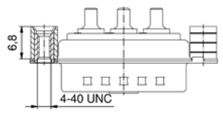

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**69**A50X | 3003W3PXX**69**A50X |
| 5W5 | | | 3005W5SXX**69**A50X | 3005W5PXX**69**A50X |
| 8W8 | | | 3008W8SXX**69**A50X | 3008W8PXX**69**A50X |

#### 4-40 UNC, threaded rear spacer, coded version



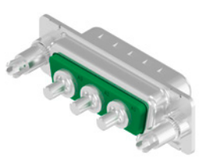


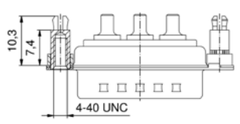

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**69**A50X | 302W2CPXX**69**A50X |
| 3W3C | | | 303W3CSXX**69**A50X | 303W3CPXX**69**A50X |

#### 4-40 UNC threaded rear spacer clip for PCB 1.6 mm






For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**69**E20X | 3003W3PXX**69**E20X |
| 5W5 | | | 3005W5SXX**69**E20X | 3005W5PXX**69**E20X |
| 8W8 | | | 3008W8SXX**69**E20X | 3008W8PXX**69**E20X |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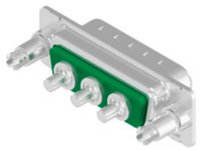
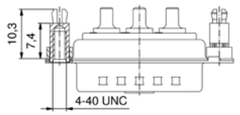
# Combination D-SUB Connectors
## With high power contacts 20 A

### Solder pin, straight

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded rear spacer clip for PCB 1.6 mm, coded version



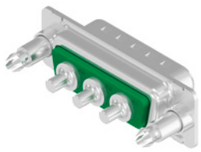


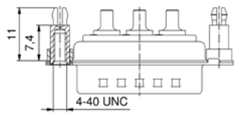

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| *No. of poles* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**69**E20X | 302W2CPXX**69**E20X |
| 3W3C | | | 303W3CSXX**69**E20X | 303W3CPXX**69**E20X |

#### 4-40 UNC threaded rear spacer clip for PCB 2.3 mm



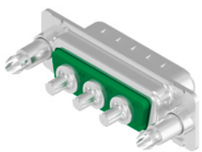


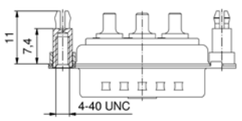

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 69 | 20 A | 2,60 |
| 71 | 30 A | 3,18 |
| 72 | 40 A | 3,75 |

| *No. of poles* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**69**E40X | 3003W3PXX**69**E40X |
| 5W5 | | | 3005W5SXX**69**E40X | 3005W5PXX**69**E40X |
| 8W8 | | | 3008W8SXX**69**E40X | 3008W8PXX**69**E40X |

#### 4-40 UNC threaded rear spacer clip for PCB 2.3 mm, coded version






For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 69 | 20 A | 2,60 |
| 71 | 30 A | 3,18 |
| 72 | 40 A | 3,75 |

| *No. of poles* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**69**E40X | 302W2CPXX**69**E40X |
| 3W3C | | | 303W3CSXX**69**E40X | 303W3CPXX**69**E40X |



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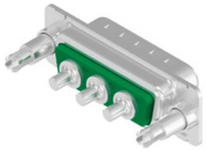
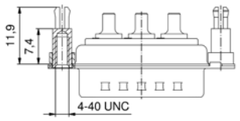
# Combination D-SUB Connectors
## With high power contacts 20 A

### Solder pin, straight

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded rear spacer clip for PCB 3.2 mm



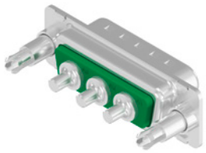


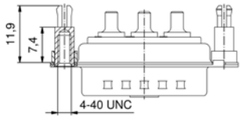

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 69 | 20 A | 2,60 |
| 71 | 30 A | 3,18 |
| 72 | 40 A | 3,75 |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**69**E60X | 3003W3PXX**69**E60X |
| 5W5 | | | 3005W5SXX**69**E60X | 3005W5PXX**69**E60X |
| 8W8 | | | 3008W8SXX**69**E60X | 3008W8PXX**69**E60X |

#### 4-40 UNC threaded rear spacer clip for PCB 3.2 mm, coded version






For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 69 | 20 A | 2,60 |
| 71 | 30 A | 3,18 |
| 72 | 40 A | 3,75 |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**69**E60X | 302W2CPXX**69**E60X |
| 3W3C | | | 303W3CSXX**69**E60X | 303W3CPXX**69**E60X |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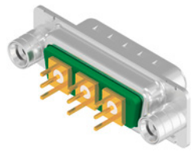
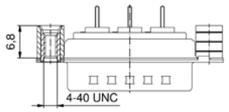
# Combination D-SUB Connectors
## With coaxial contacts 50 Ω

### Solder pin, straight

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class J >= 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded rear spacer



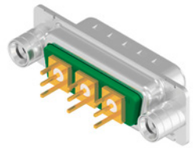


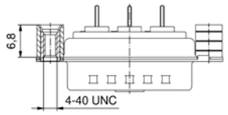

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**76**A50X | 3003W3PXX**76**A50X |
| 5W5 | | | 3005W5SXX**76**A50X | 3005W5PXX**76**A50X |
| 8W8 | | | 3008W8SXX**76**A50X | 3008W8PXX**76**A50X |

#### 4-40 UNC, threaded rear spacer, coded version



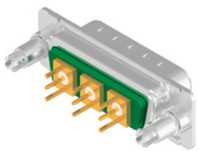


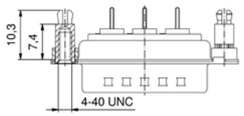

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**76**A50X | 302W2CPXX**76**A50X |
| 3W3C | | | 303W3CSXX**76**A50X | 303W3CPXX**76**A50X |

#### 4-40 UNC threaded rear spacer clip for PCB 1.6 mm






For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**76**E20X | 3003W3PXX**76**E20X |
| 5W5 | | | 3005W5SXX**76**E20X | 3005W5PXX**76**E20X |
| 8W8 | | | 3008W8SXX**76**E20X | 3008W8PXX**76**E20X |



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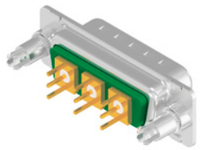
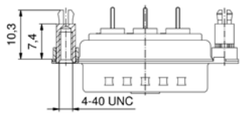
# Combination D-SUB Connectors
## With coaxial contacts 50 Ω

### Solder pin, straight

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class J >= 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded rear spacer clip for PCB 1.6 mm, coded version



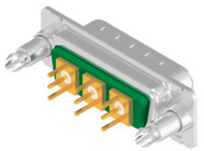


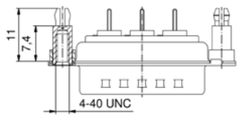

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**76**E20X | 302W2CPXX**76**E20X |
| 3W3C | | | 303W3CSXX**76**E20X | 303W3CPXX**76**E20X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

#### 4-40 UNC threaded rear spacer clip for PCB 2.3 mm



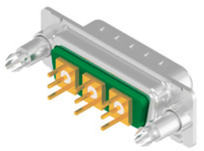


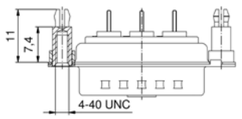

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**76**E40X | 3003W3PXX**76**E40X |
| 5W5 | | | 3005W5SXX**76**E40X | 3005W5PXX**76**E40X |
| 8W8 | | | 3008W8SXX**76**E40X | 3008W8PXX**76**E40X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

#### 4-40 UNC threaded rear spacer clip for PCB 2.3 mm, coded version






| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**76**E40X | 302W2CPXX**76**E40X |
| 3W3C | | | 303W3CSXX**76**E40X | 303W3CPXX**76**E40X |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |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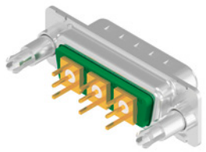
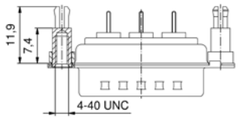
# Combination D-SUB Connectors
## With coaxial contacts 50 Ω

### Solder pin, straight

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class J >= 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded rear spacer clip for PCB 3.2 mm



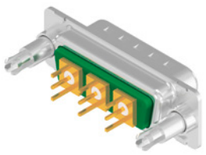


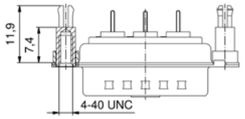

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**76**E60X | 3003W3PXX**76**E60X |
| 5W5 | | | 3005W5SXX**76**E60X | 3005W5PXX**76**E60X |
| 8W8 | | | 3008W8SXX**76**E60X | 3008W8PXX**76**E60X |

#### 4-40 UNC threaded rear spacer clip for PCB 3.2 mm, coded version






For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 76 | 50 Ω |
| 86 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**76**E60X | 302W2CPXX**76**E60X |
| 3W3C | | | 303W3CSXX**76**E60X | 303W3CPXX**76**E60X |



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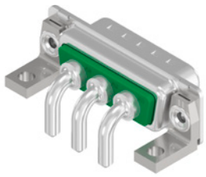
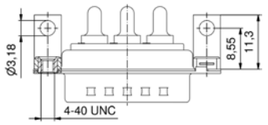
# Combination D-SUB Connectors
## With high power contacts 20 A

### Solder pin, angled
### Short metal bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded insert



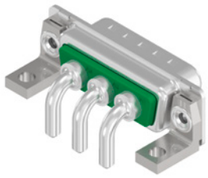


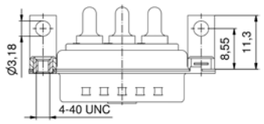

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 59 | 15 A | 1.90 |
| 73 | 20 A | 2.85 |
| 74 | 30 A | 3.20 |
| 75 | 40 A | 3.75 |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**73**N20X | 3003W3PXX**73**N20X |
| 5W5 | | | 3005W5SXX**73**N20X | 3005W5PXX**73**N20X |
| 8W8 | | | 3008W8SXX**73**N20X | 3008W8PXX**73**N20X |

#### 4-40 UNC threaded insert, coded version



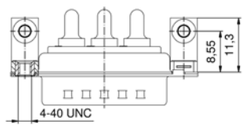



For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 59 | 15 A | 1.90 |
| 73 | 20 A | 2.85 |
| 74 | 30 A | 3.20 |
| 75 | 40 A | 3.75 |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**73**N20X | 302W2CPXX**73**N20X |
| 3W3C | | | 303W3CSXX**73**N20X | 303W3CPXX**73**N20X |

#### Clip for PCB 1.6 mm, 4-40 UNC threaded insert




For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 59 | 15 A | 1.90 |
| 73 | 20 A | 2.85 |
| 74 | 30 A | 3.20 |
| 75 | 40 A | 3.75 |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**73**N40X | 3003W3PXX**73**N40X |
| 5W5 | | | 3005W5SXX**73**N40X | 3005W5PXX**73**N40X |
| 8W8 | | | 3008W8SXX**73**N40X | 3008W8PXX**73**N40X |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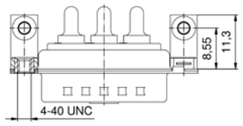
# Combination D-SUB Connectors
## With high power contacts 20 A

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

### Solder pin, angled
### Short metal bracket

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version**



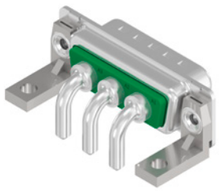

For other Power contacts select code from spread sheet

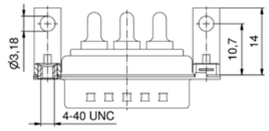
| Code | Current rating | Diameter solder pin |
|---|---|---|
| 59 | 15 A | 1.90 |
| 73 | 20 A | 2.85 |
| 74 | 30 A | 3.20 |
| 75 | 40 A | 3.75 |

| *No. of poles* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**73**N40X | 302W2CPXX**73**N40X |
| 3W3C | | | 303W3CSXX**73**N40X | 303W3CPXX**73**N40X |

### Solder pin, angled
### Long metal bracket

**4-40 UNC threaded insert**



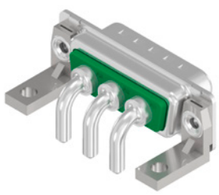


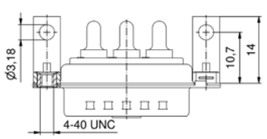

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 59 | 15 A | 1.90 |
| 73 | 20 A | 2.85 |
| 74 | 30 A | 3.20 |
| 75 | 40 A | 3.75 |

| | | | | |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**73**G20X | 3003W3PXX**73**G20X |
| 5W5 | | | 3005W5SXX**73**G20X | 3005W5PXX**73**G20X |
| 8W8 | | | 3008W8SXX**73**G20X | 3008W8PXX**73**G20X |

**4-40 UNC threaded insert, coded version**






For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 59 | 15 A | 1.90 |
| 73 | 20 A | 2.85 |
| 74 | 30 A | 3.20 |
| 75 | 40 A | 3.75 |

| | | | | |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**73**G20X | 302W2CPXX**73**G20X |
| 3W3C | | | 303W3CSXX**73**G20X | 303W3CPXX**73**G20X |



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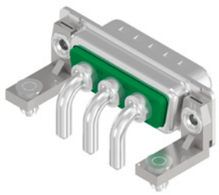
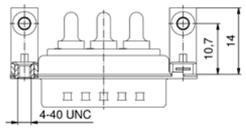
# Combination D-SUB Connectors
## With high power contacts 20 A

### Solder pin, angled
### Long metal bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**



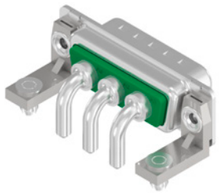


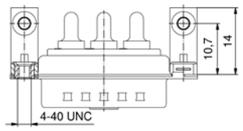

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 59 | 15 A | 1.90 |
| 73 | 20 A | 2.85 |
| 74 | 30 A | 3.20 |
| 75 | 40 A | 3.75 |

| *No. of poles* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**73**G40X | 3003W3PXX**73**G40X |
| 5W5 | | | 3005W5SXX**73**G40X | 3005W5PXX**73**G40X |
| 8W8 | | | 3008W8SXX**73**G40X | 3008W8PXX**73**G40X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version**






For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 59 | 15 A | 1.90 |
| 73 | 20 A | 2.85 |
| 74 | 30 A | 3.20 |
| 75 | 40 A | 3.75 |

| *No. of poles* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**73**G40X | 302W2CPXX**73**G40X |
| 3W3C | | | 303W3CSXX**73**G40X | 303W3CPXX**73**G40X |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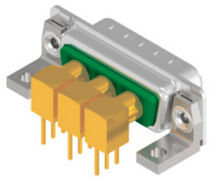
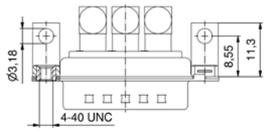
# Combination D-SUB Connectors
## With coaxial contacts 50 Ω

### Solder pin, angled
### Short metal bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class J >= 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded insert



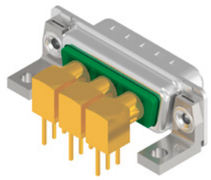


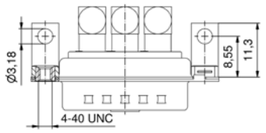

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 78 | 50 Ω |
| 88 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**78**N20X | 3003W3PXX**78**N20X |
| 5W5 | | | 3005W5SXX**78**N20X | 3005W5PXX**78**N20X |
| 8W8 | | | 3008W8SXX**78**N20X | 3008W8PXX**78**N20X |

#### 4-40 UNC threaded insert, coded version



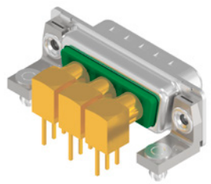


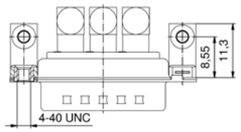

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 78 | 50 Ω |
| 88 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**78**N20X | 302W2CPXX**78**N20X |
| 3W3C | | | 303W3CSXX**78**N20X | 303W3CPXX**78**N20X |

#### Clip for PCB 1.6 mm, 4-40 UNC threaded insert






For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 78 | 50 Ω |
| 88 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**78**N40X | 3003W3PXX**78**N40X |
| 5W5 | | | 3005W5SXX**78**N40X | 3005W5PXX**78**N40X |
| 8W8 | | | 3008W8SXX**78**N40X | 3008W8PXX**78**N40X |



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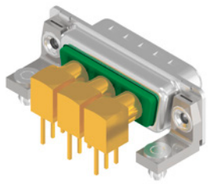
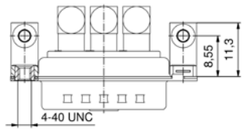
# Combination D-SUB Connectors
## With coaxial contacts 50 Ω

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class J >= 500 mating cycles*
- *M3 thread*

### Solder pin, angled
### Short metal bracket

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version**



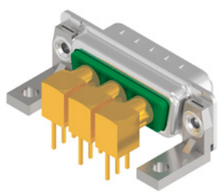


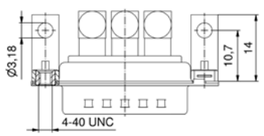

| For other coaxial contacts select code from spread sheet | |
|---|---|
| Code | Impedance |
| 78 | 50 Ω |
| 88 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**78**N40X | 302W2CPXX**78**N40X |
| 3W3C | | | 303W3CSXX**78**N40X | 303W3CPXX**78**N40X |

### Solder pin, angled
### Long metal bracket

**4-40 UNC threaded insert**

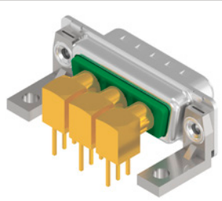


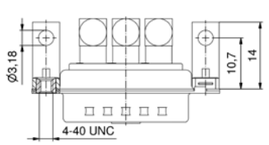



| For other coaxial contacts select code from spread sheet | |
|---|---|
| Code | Impedance |
| 78 | 50 Ω |
| 88 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**78**G20X | 3003W3PXX**78**G20X |
| 5W5 | | | 3005W5SXX**78**G20X | 3005W5PXX**78**G20X |
| 8W8 | | | 3008W8SXX**78**G20X | 3008W8PXX**78**G20X |

**4-40 UNC threaded insert, coded version**






| For other coaxial contacts select code from spread sheet | |
|---|---|
| Code | Impedance |
| 78 | 50 Ω |
| 88 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**78**G20X | 302W2CPXX**78**G20X |
| 3W3C | | | 303W3CSXX**78**G20X | 303W3CPXX**78**G20X |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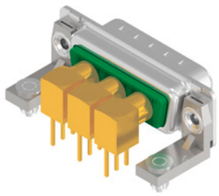
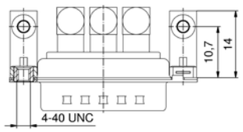
# Combination D-SUB Connectors
## With coaxial contacts 50 Ω

### Solder pin, angled
### Long metal bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class J >= 500 mating cycles*
- *M3 thread*

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**



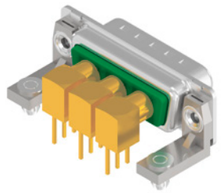


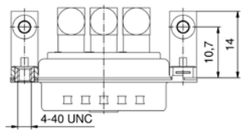

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 78 | 50 Ω |
| 88 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 3W3 | E228329 | 3 | 3003W3SXX**78**G40X | 3003W3PXX**78**G40X |
| 5W5 | | | 3005W5SXX**78**G40X | 3005W5PXX**78**G40X |
| 8W8 | | | 3008W8SXX**78**G40X | 3008W8PXX**78**G40X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version**






For other coaxial contacts select code from spread sheet

| Code | Impedance |
|---|---|
| 78 | 50 Ω |
| 88 | 75 Ω |

| No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|
| 2W2C | E228329 | 3 | 302W2CSXX**78**G40X | 302W2CPXX**78**G40X |
| 3W3C | | | 303W3CSXX**78**G40X | 303W3CPXX**78**G40X |



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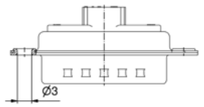
## Combination D-SUB Connectors
Without contacts

### Crimp body
AWG 20-24 and AWG 26-28

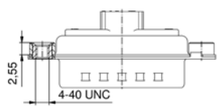
*Shell: Steel tin plated*
*On request:*
- *Brass tin plated or stainless steel*
- *M3 thread*

**Through-hole Ø 3 mm**




| *No. of poles* | *UL-File* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|
| 5W1 | E228329 | 3005W1SXK**99**A10X | 3005W1PXK**99**A10X |
| 7W2 | | 3007W2SXK**99**A10X | 3007W2PXK**99**A10X |
| 9W4 | | 3009W4SXK**99**A10X | 3009W4PXK**99**A10X |
| 11W1 | | 3011W1SXK**99**A10X | 3011W1PXK**99**A10X |
| 13W3 | | 3013W3SXK**99**A10X | 3013W3PXK**99**A10X |
| 13W6 | | 3013W6SXK**99**A10X | 3013W6PXK**99**A10X |
| 17W2 | | 3017W2SXK**99**A10X | 3017W2PXK**99**A10X |
| 17W5 | | 3017W5SXK**99**A10X | 3017W5PXK**99**A10X |
| 21W1 | | 3021W1SXK**99**A10X | 3021W1PXK**99**A10X |
| 24W7 | | 3024W7SXK**99**A10X | 3024W7PXK**99**A10X |
| 25W3 | | 3025W3SXK**99**A10X | 3025W3PXK**99**A10X |
| 27W2 | | 3027W2SXK**99**A10X | 3027W2PXK**99**A10X |
| 36W4 | | 3036W4SXK**99**A10X | 3036W4PXK**99**A10X |
| 43W2 | | 3043W2SXK**99**A10X | 3043W2PXK**99**A10X |
| 47W1 | | 3047W1SXK**99**A10X | 3047W1PXK**99**A10X |
| 21WA4 | | 321WA4SXK**99**A10X | 321WA4PXK**99**A10X |

**4-40 UNC threaded insert**




| | | | |
|---|---|---|---|
| 5W1 | E228329 | 3005W1SXK**99**A30X | 3005W1PXK**99**A30X |
| 7W2 | | 3007W2SXK**99**A30X | 3007W2PXK**99**A30X |
| 9W4 | | 3009W4SXK**99**A30X | 3009W4PXK**99**A30X |
| 11W1 | | 3011W1SXK**99**A30X | 3011W1PXK**99**A30X |
| 13W3 | | 3013W3SXK**99**A30X | 3013W3PXK**99**A30X |
| 13W6 | | 3013W6SXK**99**A30X | 3013W6PXK**99**A30X |
| 17W2 | | 3017W2SXK**99**A30X | 3017W2PXK**99**A30X |
| 17W5 | | 3017W5SXK**99**A30X | 3017W5PXK**99**A30X |
| 21W1 | | 3021W1SXK**99**A30X | 3021W1PXK**99**A30X |
| 24W7 | | 3024W7SXK**99**A30X | 3024W7PXK**99**A30X |
| 25W3 | | 3025W3SXK**99**A30X | 3025W3PXK**99**A30X |
| 27W2 | | 3027W2SXK**99**A30X | 3027W2PXK**99**A30X |
| 36W4 | | 3036W4SXK**99**A30X | 3036W4PXK**99**A30X |
| 43W2 | | 3043W2SXK**99**A30X | 3043W2PXK**99**A30X |
| 47W1 | | 3047W1SXK**99**A30X | 3047W1PXK**99**A30X |
| 21WA4 | | 321WA4SXK**99**A30X | 321WA4PXK**99**A30X |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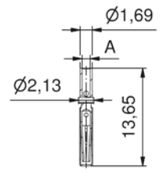
## Combination D-SUB Connectors
### Contacts

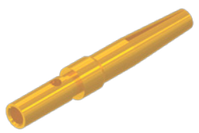
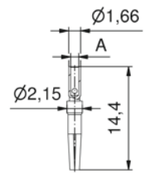
### Signal contacts
crimp

*Quality class 3 (A) = 50 mating cyles*
*Quality class 1 (C) = 500 mating cycles*

**Socket contact closed entry**

| | AWG | Current rating [A] | ØA [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|---|
|   | 20-24 | 75 (UL) / 5 (CSA VDE) | 1.12 | C | E228329 | 132C15019X |
| | 24-28 | | 0.6 | | | 132C15029X |

**Socket contact**

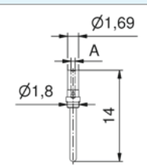
| | AWG | Current rating [A] | ØA [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|---|
|    | 20-24 | 75 (UL) / 5 (CSA VDE) | 1.12 | A | E228329 | 162A18709X |
| | 24-28 | | 0.64 | | | 162A18719X |

## Combination D-SUB Connectors
### Contacts

### Signal contacts
crimp

*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

**Plug contact**

| | AWG | Current rating [A] | ØA [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|---|
|   | 20-24 | 75 (UL) / 5 (CSA VDE) | 1.1 | A | E228329 | 131A15019X |
| | 24-28 | | 0.65 | | | 131A15029X |



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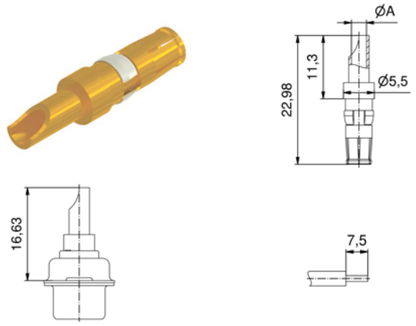
## Combination D-SUB Connectors
Contacts

### High power contacts
Solder cup, straight

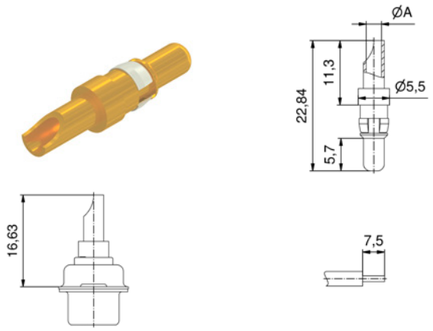
*Quality class 3 (A) = 50 mating cyles*
*Quality class 1 (C) = 500 mating cycles*

**Socket contact**




| AWG | Current rating [A] | Code use with part no. creator | Ø Termination A= [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|---|
| 16-20 | 10 | 41 | 1.8 | C | E228329 | 132C10019X |
| | | 61 | | A | | 132A10019X |
| 12-14 | 20 | 42 | 2.7 | C | | 132C10029X |
| | | 62 | | A | | 132A10029X |
| 10-12 | 30 | 43 | 3.5 | C | | 132C10039X |
| | | 63 | | A | | 132A10039X |
| 8-10 | 40 | 44 | 4.8 | C | | 132C10049X |
| | | 64 | | A | | 132A10049X |

**Plug contact**



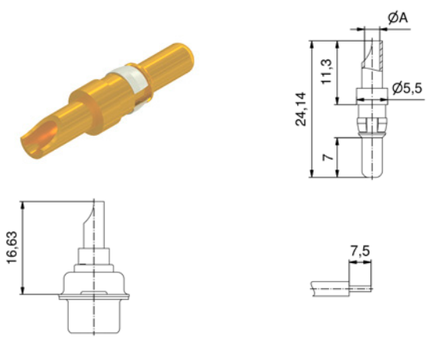

| AWG | Current rating [A] | Code use with part no. creator | Ø Termination A= [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|---|
| 16-20 | 10 | 41 | 1.8 | C | E228329 | 131C10019X |
| | | 61 | | A | | 131A10019X |
| 12-14 | 20 | 42 | 2.7 | C | | 131C10029X |
| | | 62 | | A | | 131A10029X |
| 10-12 | 30 | 43 | 3.5 | C | | 131C10039X |
| | | 63 | | A | | 131A10039X |
| 8-10 | 40 | 44 | 4.8 | C | | 131C10049X |
| | | 64 | | A | | 131A10049X |

## Combination D-SUB Connectors
Contacts

### High power contacts
Solder cup, straight

*Quality class 1 (C) = 500 mating cyles*
*On request:*
- *Quality class 3 (A) = 50 mating cycles*

**Plug contact, premating**




| AWG | Current rating [A] | Ø Termination A= [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 16-20 | 10 | 1.8 | C | E228329 | 131C10119X |
| 12-14 | 20 | 2.7 | | | 131C10129X |
| 10-12 | 30 | 3.5 | | | 131C10139X |
| 8-10 | 40 | 4.8 | | | 131C10149X |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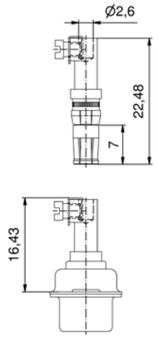
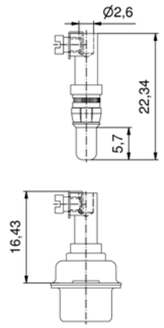
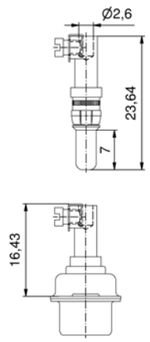
# Combination D-SUB Connectors
## Contacts

### High power contacts
### Screw termination

*Quality class 3 (A) = 50 mating cyles*
*Quality class 1 (C) = 500 mating cycles*

| Socket contact | AWG | Current rating [A] | | UL-File | Part No. |
|---|---|---|---|---|---|
|   | 14 | 20 | C | E228329 | 132C36009X |
| | | | A | | 132A36009X |

| Plug contact | AWG | Current rating [A] | | UL-File | Part No. |
|---|---|---|---|---|---|
|   | 14 | 20 | C | E228329 | 131C36009X |
| | | | A | | 131A36009X |

| Plug contact, premating | AWG | Current rating [A] | | UL-File | Part No. |
|---|---|---|---|---|---|
|   | 14 | 20 | C | E228329 | 131C36109X |



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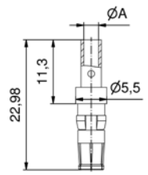
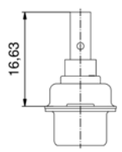
# Combination D-SUB Connectors
## Contacts

### High power contacts
### Crimp, straight

*Quality class 3 (A) = 50 mating cyles*
*Quality class 1 (C) = 500 mating cycles*

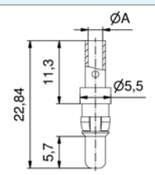
**Socket contact**

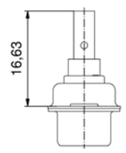


| AWG | Current rating [A] | Ø Termination A= [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 16-20 | 10 | 1.7 | C | E228329 | 132C11019X |
| | | | A | | 132A11019X |
| 12-14 | 20 | 2.6 | C | | 132C11029X |
| | | | A | | 132A11029X |
| 10-12 | 30 | 3.7 | C | | 132C11039X |
| | | | A | | 132A11039X |
| 8-10 | 40 | 4.6 | C | | 132C11049X |
| | | | A | | 132A11049X |

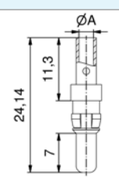
**Plug contact**

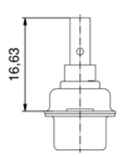


| AWG | Current rating [A] | Ø Termination A= [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 16-20 | 10 | 1.7 | C | E228329 | 131C11019X |
| | | | A | | 131A11019X |
| 12-14 | 20 | 2.6 | C | | 131C11029X |
| | | | A | | 131A11029X |
| 10-12 | 30 | 3.7 | C | | 131C11039X |
| | | | A | | 131A11039X |
| 8-10 | 40 | 4.6 | C | | 131C11049X |
| | | | A | | 131A11049X |

**Plug contact, premating**



| AWG | Current rating [A] | Ø Termination A= [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 16-20 | 10 | 1.7 | C | E228329 | 131C11119X |
| 12-14 | 20 | 2.6 | | | 131C11129X |
| 10-12 | 30 | 3.7 | | | 131C11139X |
| 8-10 | 40 | 4.6 | | | 131C11149X |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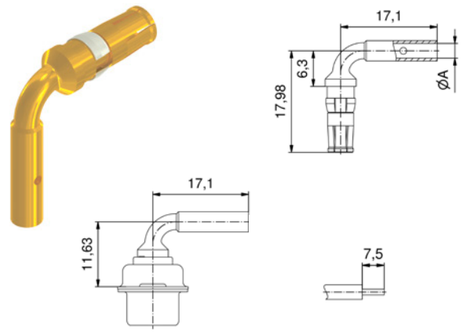
## Combination D-SUB Connectors
Contacts

### High power contacts
Crimp, angled

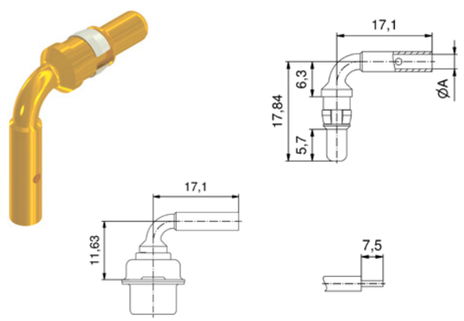
*Quality class 3 (A) = 50 mating cyles*
*Quality class 1 (C) = 500 mating cycles*

**Socket contact**




| AWG | Current rating [A] | Ø Termination A= [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 16-20 | 10 | 1.7 | C | E228329 | 132C16019X |
| | | | A | | 132A16019X |
| 12-14 | 20 | 2.6 | C | | 132C16029X |
| | | | A | | 132A16029X |
| 10-12 | 30 | 3.7 | C | | 132C16039X |
| | | | A | | 132A16039X |
| 8-10 | 40 | 4.6 | C | | 132C16049X |
| | | | A | | 132A16049X |

**Plug contact**



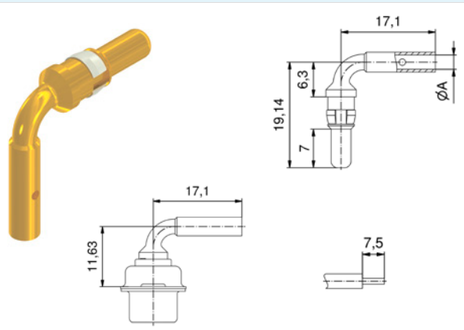

| AWG | Current rating [A] | Ø Termination A= [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 16-20 | 10 | 1.7 | C | E228329 | 131C16019X |
| | | | A | | 131A16019X |
| 12-14 | 20 | 2.6 | C | | 131C16029X |
| 10-12 | | 3.7 | A | | 131A16029X |
| 8-10 | 30 | 4.6 | C | | 131C16039X |
| | | | A | | 131A16039X |
| 12-14 | 40 | 2.6 | C | | 131C16049X |
| 10-12 | | 3.7 | A | | 131A16049X |

## Combination D-SUB Connectors
Contacts

### High power contacts
Crimp, angled

*Quality class 1 (C) = 500 mating cyles*
*On request:*
- *Quality class 3 (A) = 50 mating cycles*

**Plug contact, premating**




| AWG | Current rating [A] | Ø Termination A= [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 16-20 | 10 | 1.7 | C | E228329 | 131C16119X |
| 12-14 | 20 | 2.6 | | | 131C16129X |
| 16-20 | 30 | 3.7 | | | 131C16139X |
| 8-10 | 40 | 4.6 | | | 131C16149X |



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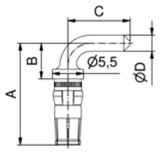
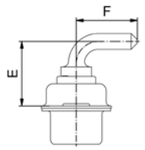
## High power contacts
## Solder pin, angled

*Quality class 3 (A) = 50 mating cyles*
*Quality class 1 (C) = 500 mating cycles*

### Socket contact




| Shell size | Current rating [A] | Code use with part no. creator | Hole diameter of PCB [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|---|
| 1-4 | 15 | 55 | 2.3 | C | E228329 | 132C13009X |
| | | 59 | | A | | 132A13009X |
| | 20 | 56 | 3.2 | C | | 132C13019X |
| | | 73 | | A | | 132A13019X |
| | 30 | 57 | 3.6 | C | | 132C13029X |
| | | 74 | | A | | 132A13029X |
| | 40 | 58 | 4.1 | C | | 132C13039X |
| | | 75 | | A | | 132A13039X |
| 5 | 20 | 66 | 3.2 | C | | 132C13060X |
| | | 81 | | A | | 132A13060X |
| | 30 | 67 | 3.6 | C | | 132C13070X |
| | | 82 | | A | | 132A13070X |
| | | 65 | | C | | 132C13059X |
| | | 85 | | A | | 132A13059X |
| | 40 | 60 | 4.1 | C | | 132C13049X |
| | | 77 | | A | | 132A13049X |

| Shellsize | Current rating [A] | Termination | A | B | C | D Ø | E | F |
|---|---|---|---|---|---|---|---|---|
| 1-4 | 15 | 55/59 | 14.68 | 3.00 | 10.50 | 1.90 | 8.35 | 10.50 |
| 1-4 | 20 | 56/73 | 17.98 | 6.30 | 11.00 | 2.85 | 11.65 | 11.00 |
| 1-4 | 30 | 57/74 | 26.68 | 15.00 | 9.50 | 3.20 | 20.35 | 9.50 |
| 1-4 | 40 | 58/75 | 17.98 | 6.30 | 11.00 | 3.75 | 11.65 | 11.00 |
| 5 | 20 | 66/81 | 20.53 | 8.85 | 14.00 | 2.85 | 14.20 | 12.58 |
| 5 | 30 | 67/82 | 20.53 | 8.85 | 14.00 | 3.20 | 14.20 | 12.58 |
| 5 | 30 | 65/85 | 26.68 | 15.00 | 13.50 | 3.20 | 20.35 | 12.08 |
| 5 | 40 | 60/77 | 20.53 | 8.85 | 14.00 | 3.75 | 14.20 | 12.58 |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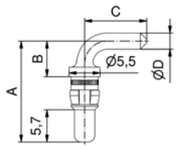
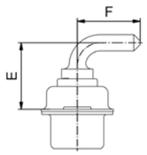
## High power contacts
## Solder pin, angled

*Quality class 3 (A) = 50 mating cyles*
*Quality class 1 (C) = 500 mating cycles*

**Plug contact**




| Shell size | Current rating [A] | Code use with part no. creator | Hole diameter of PCB [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|---|
| 1-4 | 15 | 55 | 2.3 | C | E228329 | 131C13009X |
| | | 59 | | A | | 131A13009X |
| | 20 | 56 | 3.2 | C | | 131C13019X |
| | | 73 | | A | | 131A13019X |
| | 30 | 57 | 3.6 | C | | 131C13029X |
| | | 74 | | A | | 131A13029X |
| | 40 | 58 | 4.1 | C | | 131C13039X |
| | | 75 | | A | | 131A13039X |
| 5 | 20 | 66 | 3.2 | C | | 131C13060X |
| | | 81 | | A | | 131A13060X |
| | 30 | 67 | 3.6 | C | | 131C13070X |
| | | 82 | | A | | 131A13070X |
| | | 65 | | C | | 131C13059X |
| | | 85 | | A | | 131A13059X |
| | 40 | 60 | 4.1 | C | | 131C13049X |
| | | 77 | | A | | 131A13049X |

| Shellsize | Current rating [A] | Termination | A | B | C | D Ø | E | F |
|---|---|---|---|---|---|---|---|---|
| 1-4 | 15 | 55/59 | 14.54 | 3.00 | 10.50 | 1.90 | 8.35 | 10.50 |
| 1-4 | 20 | 56/73 | 17.84 | 6.30 | 11.00 | 2.85 | 11.65 | 11.00 |
| 1-4 | 30 | 57/74 | 26.54 | 15.00 | 9.50 | 3.20 | 20.35 | 9.50 |
| 1-4 | 40 | 58/75 | 17.84 | 6.30 | 11.00 | 3.75 | 11.65 | 11.00 |
| 5 | 20 | 66/81 | 20.39 | 8.85 | 14.00 | 2.85 | 14.20 | 12.58 |
| 5 | 30 | 67/82 | 20.39 | 8.85 | 14.00 | 3.20 | 14.20 | 12.58 |
| 5 | 30 | 65/85 | 26.54 | 15.00 | 13.50 | 3.20 | 20.35 | 12.08 |
| 5 | 40 | 60/77 | 20.39 | 8.85 | 14.00 | 3.75 | 14.20 | 12.58 |



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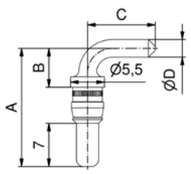
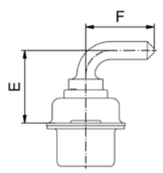
# Combination D-SUB Connectors
## Contacts

### High power contacts
### Solder pin, angled

*Quality class 1 (C) = 500 mating cyles*
*On request:*
- *Quality class 3 (A) = 50 mating cycles*

**Plug contact, premating**




| *Shell size* | *Current rating [A]* | *Hole diameter of PCB [mm]* | *Quality class* | *Part No.* |
|---|---|---|---|---|
| 1-4 | 15 | 2.3 | C | 131C13109X |
| | 20 | 3.2 | | 131C13119X |
| | 30 | 3.6 | | 131C13129X |
| | 40 | 4.1 | | 131C13139X |
| 5 | 20 | 3.2 | | 131C13160X |
| | 30 | 3.6 | | 131C13170X |
| | | | | 131C13159X |
| | 40 | 4.1 | | 131C13149X |

| Shellsize | Current rating [A] | A | B | C | D Ø | E | F |
|---|---|---|---|---|---|---|---|
| 1-4 | 15 | 15.84 | 3.00 | 10.50 | 1.90 | 8.35 | 10.50 |
| 1-4 | 20 | 19.14 | 6.30 | 11.00 | 2.85 | 11.65 | 11.00 |
| 1-4 | 30 | 27.84 | 15.00 | 9.50 | 3.20 | 20.35 | 9.50 |
| 1-4 | 40 | 19.14 | 6.30 | 11.00 | 3.75 | 11.65 | 11.00 |
| 5 | 20 | 21.65 | 8.85 | 14.00 | 2.85 | 14.20 | 12.58 |
| 5 | 30 | 21.65 | 8.85 | 14.00 | 3.20 | 14.20 | 12.58 |
| 5 | 30 | 27.84 | 15.00 | 13.50 | 3.20 | 20.35 | 12.08 |
| 5 | 40 | 21.65 | 8.85 | 14.00 | 3.75 | 14.20 | 12.58 |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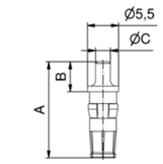
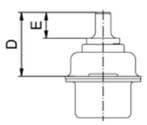
# Combination D-SUB Connectors
## Contacts

### High power contacts
### Solder pin, straight

*Quality class 3 (A) = 50 mating cyles*
*Quality class 1 (C) = 500 mating cycles*

**Socket contact**

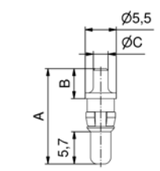


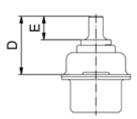




| Shell size | Current rating [A] | Code use with part no. creator | Hole diameter of PCB [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|---|
| 1-5 | 20 | 48 | 2.3 | C | E228329 | 132C12019X |
| | | 68 | | A | | 132A12019X |
| | | 49 | 3 | C | | 132C12029X |
| | | 69 | | A | | 132A12029X |
| | | 50 | 3.2 | C | | 132C12039X |
| | | 70 | | A | | 132A12039X |
| | 30 | 51 | 3.6 | C | | 132C12049X |
| | | 71 | | A | | 132A12049X |
| | 40 | 52 | 4.1 | C | | 132C12059X |
| | | 72 | | A | | 132A12059X |

| Current rating [A] | Termination | A | B | C Ø | D | E |
|---|---|---|---|---|---|---|
| 20 | 48/68 | 15.98 | 4.60 | 1.95 | 9.65 | 3.80 |
| 20 | 49/69 | 16.98 | 5.30 | 2.60 | 10.65 | 4.30 |
| 20 | 50/70 | 16.38 | 4.70 | 2.85 | 10.05 | 3.70 |
| 30 | 51/71 | 19.18 | 7.50 | 3.18 | 12.85 | 6.70 |
| 40 | 52/72 | 17.43 | 5.75 | 3.75 | 11.10 | 4.75 |

**Plug contact**




| Shell size | Current rating [A] | Code use with part no. creator | Hole diameter of PCB [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|---|
| 1-5 | 20 | 48 | 2.3 | C | E228329 | 131C12019X |
| | | 68 | | A | | 131A12019X |
| | | 49 | 3 | C | | 131C12029X |
| | | 69 | | A | | 131A12029X |
| | | 50 | 3.2 | C | | 131C12039X |
| | | 70 | | A | | 131A12039X |
| | 30 | 51 | 3.6 | C | | 131C12049X |
| | | 71 | | A | | 131A12049X |
| | 40 | 52 | 4.1 | C | | 131C12059X |
| | | 72 | | A | | 131A12059X |

| Current rating [A] | Termination | A | B | C Ø | D | E |
|---|---|---|---|---|---|---|
| 20 | 48/68 | 15.84 | 4.60 | 1.95 | 9.65 | 3.80 |
| 20 | 49/69 | 16.84 | 5.30 | 2.60 | 10.65 | 4.30 |
| 20 | 50/70 | 16.24 | 4.70 | 2.85 | 10.05 | 3.70 |
| 30 | 51/71 | 19.04 | 7.50 | 3.18 | 12.85 | 6.70 |
| 40 | 52/72 | 17.29 | 5.75 | 3.75 | 11.10 | 4.75 |



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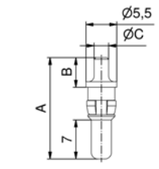
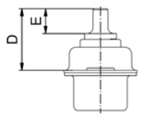
# Combination D-SUB Connectors
## Contacts

### High power contacts
### Solder pin, straight

*Quality class 1 (C) = 500 mating cyles*
*On request:*
- *Quality class 3 (A) = 50 mating cycles*

**Plug contact, premating**




| *Shell size* | *Current rating [A]* | *Hole diameter of PCB [mm]* | *Quality class* | *Part No.* |
|---|---|---|---|---|
| 1-5 | 20 | 2.3 | C | 131C12119X |
| | | 3.0 | | 131C12129X |
| | | 3.2 | | 131C12139X |
| | 30 | 3.6 | | 131C12149X |
| | 40 | 4.1 | | 131C12159X |

| Current rating [A] | A | B | C Ø | D | E |
|---|---|---|---|---|---|
| 20 | 17.14 | 4.60 | 1.95 | 9.65 | 3.80 |
| 20 | 18.14 | 5.30 | 2.60 | 10.65 | 4.30 |
| 20 | 17.54 | 4.70 | 2.85 | 10.05 | 3.70 |
| 30 | 20.34 | 7.50 | 3.18 | 12.85 | 6.70 |
| 40 | 18.59 | 5.75 | 3.75 | 11.10 | 4.75 |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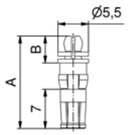
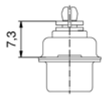
# Combination D-SUB Connectors
## Contacts

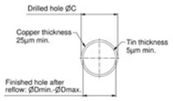
### High power contacts
### Press-fit version, straight

*Quality class 1 (C) = 500 mating cyles*
*On request:*
- *Quality class 3 (A) = 50 mating cycles*

**Socket contact**



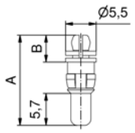



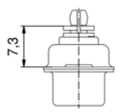



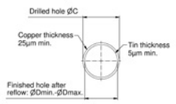

| Shell size | Current rating [A] | Code use with part no. creator | Hole diameter of PCB [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|---|
| 1-5 | 30 | P1 | 3.11 | C | E228329 | 132C00229A |
| | | P2 | 3.25 | | | 132C00299A |
| | | P4 | 3.2 | | | 132C19019X |

| Current rating [A] | Termination | A | B | C Ø ±0.03 | D min. | D max. |
|---|---|---|---|---|---|---|
| 30 | P1 | 16.48 | 4.80 | 3.13 | 2.96 | 3.11 |
| 30 | P2 | 16.48 | 4.80 | 3.27 | 3.10 | 3.25 |
| 30 | P3 | 16.08 | 4.40 | 3.22 | 3.02 | 3.20 |

**Plug contact**




| Shell size | Current rating [A] | Code use with part no. creator | Hole diameter of PCB [mm] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|---|
| 1-5 | 30 | P1 | 3.11 | C | E228329 | 131C00319A |
| | | P2 | 3.25 | | | 131C00389A |
| | | P4 | 3.2 | | | 131C19019X |

| Current rating [A] | Termination | A | B | C Ø ±0.03 | D min. | D max. |
|---|---|---|---|---|---|---|
| 30 | P1 | 16.34 | 4.80 | 3.13 | 2.96 | 3.11 |
| 30 | P2 | 16.34 | 4.80 | 3.27 | 3.10 | 3.25 |
| 30 | P3 | 15.94 | 4.40 | 3.22 | 3.02 | 3.20 |



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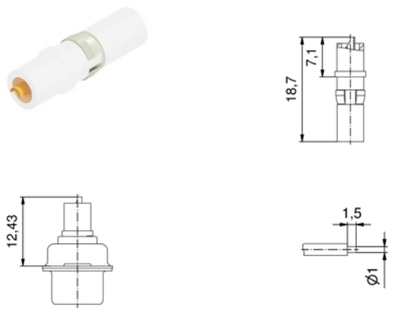
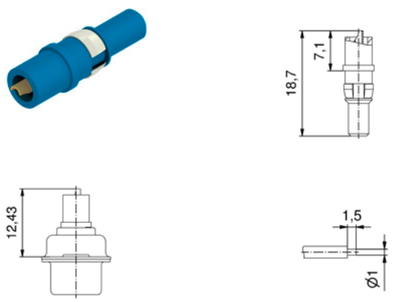
# Combination D-SUB Connectors
## Contacts

### High voltage contacts
### Solder termination, straight

*Quality class J >= 500 mating cyles*

| | AWG | Working voltage max. [kV] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| **Socket contact** | | | | | |
|   | 20 | 2.8 | J | E228329 | 132J14019X |
| **Plug contact** | | | | | |
|   | 20 | 2.8 | J | E228329 | 131J14019X |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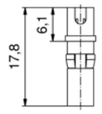
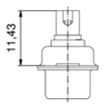
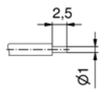
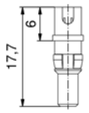
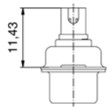
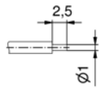
# Combination D-SUB Connectors
## Contacts

### High voltage contacts
### Solder termination, angled

*Quality class J >= 500 mating cyles*

| Socket contact | AWG | Working voltage max. [kV] | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
|       | 20 | 2.8 | J | E228329 | 132J14519X |

| Plug contact | | | | | |
|---|---|---|---|---|---|
|       | 20 | 2.8 | J | E228329 | 131J14519X |



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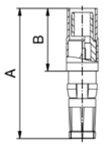
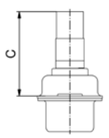
# Combination D-SUB Connectors
## Contacts

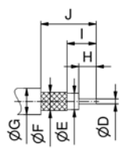
### Coaxial contacts, straight
**Inner conductor solder-, outer conductor crimp-/solder termination**

*Quality class J >= 500 mating cyles*
*Quality class 3 (A) = 50 mating cyles*

**Socket contact**



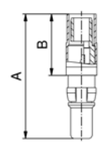



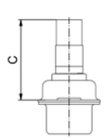



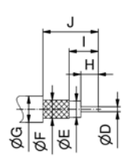

| Impedance [ Ω] | Cable | Quality class | UL-File | Part No. |
|---|---|---|---|---|
| 50 | 178 B/U, 196 A/U, 404 /U | J | E228329 | 132J20019X |
| | | A | | 132A20019X |
| | 174 /U, 188 A/U, 316 /U | J | | 132J20029X |
| | | A | | 132A20029X |
| | 180 B/U | J | | 132J20039X |
| | | A | | 132A20039X |
| | 58 C/U, 141 A/U | J | | 132J20049X |
| | | A | | 132A20049X |
| | 316 /U double braided | J | | 132J20059X |
| | | A | | 132A20059X |
| 75 | 179 B/U, 187 A/U (B=7.3 mm) | J | | 132J30019X |
| | | A | | 132A30019X |
| | 179 B/U, 187 A/U (B=11.2 mm) | J | | 132J30029X |
| | | A | | 132A30029X |

| Impedance Ω | Usable Cable RG | A | B | C | D Ø | E Ø | F Ø | G Ø | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 178BU, 196AU,404 U | 23.00 | 11.20 | 17.55 | 0.85 | 1.20 | 1.40 | 2.30 | 3.00 | 5.00 | 9.50 |
| | 174U, 188AU, 316U | 23.00 | 11.20 | 17.55 | 0.85 | 1.90 | 2.30 | 3.20 | 3.00 | 5.00 | 9.50 |
| | 180BU | 23.00 | 11.20 | 17.55 | 0.85 | 2.80 | 3.10 | 4.50 | 3.00 | 5.00 | 9.50 |
| | 58CU, 141AU | 26.80 | 14.80 | 20.15 | 1.00 | 3.00 | 3.60 | 5.20 | 3.00 | 5.00 | 9.50 |
| | 316U double braided | 24.00 | 12.20 | 17.55 | 0.85 | 1.90 | 2.70 | 3.20 | 3.00 | 5.00 | 9.50 |
| 75 | 179BU, 187AU | 19.05 | 7.30 | 12.80 | 0.50 | 1.90 | 2.30 | 3.20 | 2.00 | 3.10 | 6.00 |
| | 179BU, 187AU | 23.00 | 11.20 | 16.70 | 0.50 | 1.90 | 2.30 | 3.20 | 3.00 | 5.00 | 9.50 |

**Plug contact**




| Impedance [ Ω] | Cable | Quality class | UL-File | Part No. |
|---|---|---|---|---|
| 50 | 178 B/U, 196 A/U, 404 /U | J | E228329 | 131J20019X |
| | | A | | 131A20019X |
| | 174 /U, 188 A/U, 316 /U | J | | 131J20029X |
| | | A | | 131A20029X |
| | 180 B/U | J | | 131J20039X |
| | | A | | 131A20039X |
| | 58 C/U, 141 A/U | J | | 131J20049X |
| | | A | | 131A20049X |
| | 316 /U double braided | J | | 131J20059X |
| | | A | | 131A20059X |
| 75 | 179 B/U, 187 A/U (B=7.3 mm) | J | | 131J30019X |
| | | A | | 131A30019X |
| | 179 B/U, 187 A/U (B=11.2 mm) | J | | 131J30029X |
| | | A | | 131A30029X |

| Impedance Ω | Usable Cable RG | A | B | C | D Ø | E Ø | F Ø | G Ø | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 178BU, 196AU,404 U | 22.50 | 11.20 | 17.55 | 0.85 | 1.20 | 1.40 | 2.30 | 3.00 | 5.00 | 9.50 |
| | 174U, 188AU, 316U | 22.50 | 11.20 | 17.55 | 0.85 | 1.90 | 2.30 | 3.20 | 3.00 | 5.00 | 9.50 |
| | 180BU | 22.50 | 11.20 | 17.55 | 0.85 | 2.80 | 3.10 | 4.50 | 3.00 | 5.00 | 9.50 |
| | 58CU, 141AU | 26.30 | 14.80 | 20.15 | 1.00 | 3.00 | 3.60 | 5.20 | 3.00 | 5.00 | 9.50 |
| | 316U double braided | 23.50 | 12.20 | 17.55 | 0.85 | 1.90 | 2.70 | 3.20 | 3.00 | 5.00 | 9.50 |
| 75 | 179BU, 187AU | 18.55 | 7.30 | 12.80 | 0.50 | 1.90 | 2.30 | 3.20 | 2.00 | 3.10 | 6.00 |
| | 179BU, 187AU | 22.50 | 11.20 | 16.70 | 0.50 | 1.90 | 2.30 | 3.20 | 3.00 | 5.00 | 9.50 |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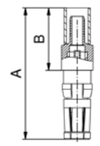
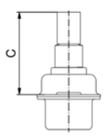
# Combination D-SUB Connectors
## Contacts

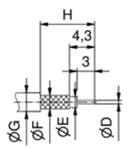
### Coaxial contacts, straight
### Inner and outer conductor crimp termination

*Quality class J >= 500 mating cyles*
*Quality class 3 (A) = 50 mating cyles*

**Socket contact**



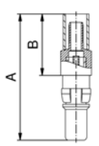



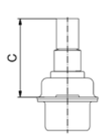



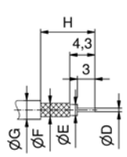

| Impedance [ Ω] | Cable | Quality class | UL-File | Part No. |
|---|---|---|---|---|
| 50 | 174 /U, 188 A/U, 316 /U | J | E228329 | 132J21019X |
| | | A | | 132A21019X |
| | 316 /U double braided | J | | 132J21029X |
| | | A | | 132A21029X |
| | 58 C/U, 141 A/U | J | | 132J21039X |
| | | A | | 132A21039X |
| 75 | 179 B/U, 187 A/U | J | | 132J31019X |
| | | A | | 132A31019X |
| | 180 B/U | J | | 132J31029X |
| | | A | | 132A31029X |

| Impedance Ω | Usable Cable RG | A | B | C | D Ø | E Ø | F Ø | G Ø | H |
|---|---|---|---|---|---|---|---|---|---|
| 50 | 174U, 188AU, 316U | 23.00 | 11.20 | 16.60 | 0.60 | 1.90 | 2.30 | 3.20 | 9.30 |
| | 316U double braided | 23.00 | 11.20 | 16.60 | 0.60 | 1.90 | 3.00 | 3.80 | 9.30 |
| | 58CU, 141AU | 22.70 | 10.90 | 16.30 | 1.30 | 3.70 | 4.30 | 5.20 | 9.30 |
| 75 | 179BU, 187AU | 22.95 | 11.20 | 16.70 | 0.60 | 1.90 | 2.30 | 3.20 | 9.30 |
| | 180BU | 22.15 | 10.40 | 15.90 | 0.60 | 2.80 | 4.50 | 4.50 | 8.80 |

**Plug contact**




| Impedance [ Ω] | Cable | Quality class | UL-File | Part No. |
|---|---|---|---|---|
| 50 | 174 /U, 188 A/U, 316 /U | J | E228329 | 131J21019X |
| | | A | | 131A21019X |
| | 316 /U double braided | J | | 131J21029X |
| | | A | | 131A21029X |
| | 58 C/U, 141 A/U | J | | 131J21039X |
| | | A | | 131A21039X |
| 75 | 179 B/U, 187 A/U | J | | 131J31019X |
| | | A | | 131A31019X |
| | 180 B/U | J | | 131J31029X |
| | | A | | 131A31029X |

| Impedance Ω | Usable Cable RG | A | B | C | D Ø | E Ø | F Ø | G Ø | H |
|---|---|---|---|---|---|---|---|---|---|
| 50 | 174U, 188AU, 316U | 22.50 | 11.20 | 16.60 | 0.60 | 1.90 | 2.30 | 3.20 | 9.30 |
| | 316U double braided | 22.50 | 11.20 | 16.60 | 0.60 | 1.90 | 3.00 | 3.80 | 9.30 |
| | 58CU, 141AU | 22.20 | 10.90 | 16.30 | 1.30 | 3.70 | 4.30 | 5.20 | 9.30 |
| 75 | 179BU, 187AU | 22.45 | 11.20 | 16.70 | 0.60 | 1.90 | 2.30 | 3.20 | 9.30 |
| | 180BU | 21.65 | 10.40 | 15.90 | 0.60 | 2.80 | 4.50 | 4.50 | 8.80 |



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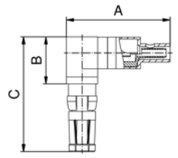
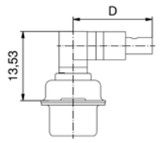
# Combination D-SUB Connectors
## Contacts

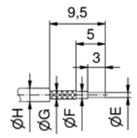
### Coaxial contacts, angled
Inner conductor solder-, outer conductor crimp-/solder termination

*Quality class J >= 500 mating cyles*
*Quality class 3 (A) = 50 mating cyles*

**Socket contact**



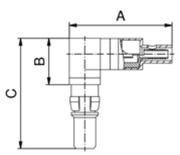



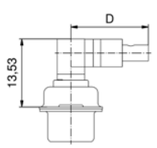



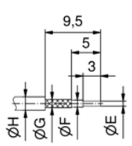

| Impedance [ Ω] | Cable | Quality class | UL-File | Part No. |
|---|---|---|---|---|
| 50 | 174 /U, 188 A/U, 316 /U | J | E228329 | 132J22019X |
| | | A | | 132A22019X |
| | 178 B/U, 196 A/U, 404 /U | J | | 132J22029X |
| | | A | | 132A22029X |
| | 316 /U double braided | J | | 132J22039X |
| | | A | | 132A22039X |

| Impedance Ω | Usable Cable RG | A | B | C | D | E Ø | F Ø | G Ø | H Ø |
|---|---|---|---|---|---|---|---|---|---|
| 50 | 174U, 188AU, 316U | 18.50 | 8.20 | 19.80 | 15.70 | 0.85 | 1.90 | 2.30 | 3.20 |
| | 178BU, 196AU, 404U | 18.50 | 8.20 | 19.80 | 15.70 | 0.85 | 1.20 | 1.40 | 2.30 |
| | 316U double braided | 19.50 | 8.20 | 19.80 | 16.70 | 0.85 | 1.90 | 2.70 | 3.50 |

**Plug contact**




| Impedance [ Ω] | Cable | Quality class | UL-File | Part No. |
|---|---|---|---|---|
| 50 | 174 /U, 188 A/U, 316 /U | J | E228329 | 131J22019X |
| | | A | | 131A22019X |
| | 178 B/U, 196 A/U, 404 /U | J | | 131J22029X |
| | | A | | 131A22029X |
| | 316 /U double braided | J | | 131J22039X |
| | | A | | 131A22039X |

| Impedance Ω | Usable Cable RG | A | B | C | D | E Ø | F Ø | G Ø | H Ø |
|---|---|---|---|---|---|---|---|---|---|
| 50 | 174U, 188AU, 316U | 18.50 | 8.20 | 19.30 | 15.70 | 0.85 | 1.90 | 2.30 | 3.20 |
| | 178BU, 196AU, 404U | 18.50 | 8.20 | 19.30 | 15.70 | 0.85 | 1.20 | 1.40 | 2.30 |
| | 316U double braided | 19.50 | 8.20 | 19.30 | 16.70 | 0.85 | 1.90 | 2.70 | 3.50 |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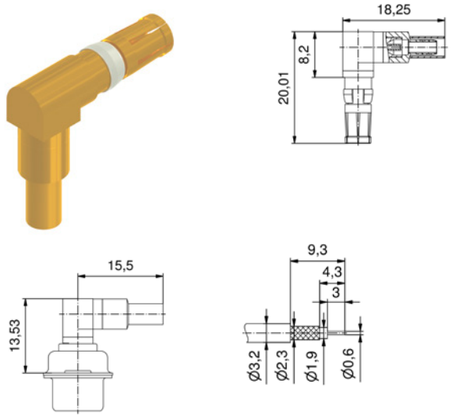
# Combination D-SUB Connectors
## Contacts

### Coaxial contacts, angled
### Inner and outer conductor crimp termination

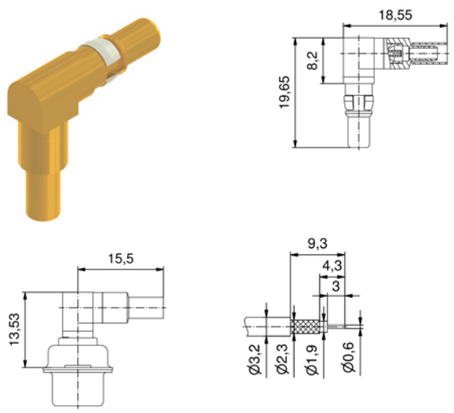
*Quality class J >= 500 mating cyles*
*Quality class 3 (A) = 50 mating cyles*

**Socket contact**




| Impedance [ Ω ] | Cable | Quality class | UL-File | Part No. |
|---|---|---|---|---|
| 50 | 174 /U, 188 A/U, 316 /U | J | E228329 | 132J23019X |
| | | A | | 132A23019X |
| 75 | 179 B/U, 187 A/U | J | | 132J33019X |
| | | A | | 132A33019X |

**Plug contact**




| Impedance [ Ω ] | Cable | Quality class | UL-File | Part No. |
|---|---|---|---|---|
| 50 | 174 /U, 188 A/U, 316 /U | J | E228329 | 131J23019X |
| | | A | | 131A23019X |
| 75 | 179 B/U, 187 A/U | J | | 131J33019X |
| | | A | | 131A33019X |



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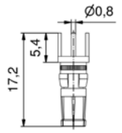
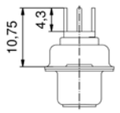
# Combination D-SUB Connectors
## Contacts

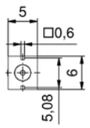
### Coaxial contacts, straight
### PCB termination, 3 solder pins

*Quality class J >= 500 mating cyles*
*Quality class 3 (A) = 50 mating cyles*

**Socket contact**

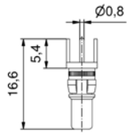


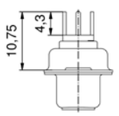


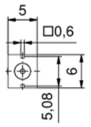



| Impedance [Ω] | Shell size | Code use with part no. creator | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 50 | 1-5 | 76 | J | E228329 | 132J24019X |
| | | G7 | A | | 132A24019X |
| 75 | | 86 | J | | 132J34019X |
| | | G8 | A | | 132A34019X |

**Plug contact**



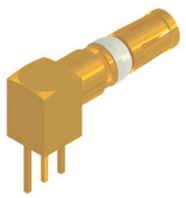
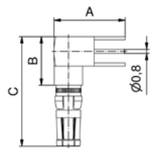


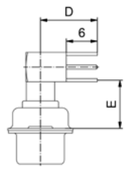


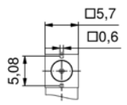

| Impedance [Ω] | Shell size | Code use with part no. creator | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 50 | 1-5 | 76 | J | E228329 | 131J24019X |
| | | G7 | A | | 131A24019X |
| 75 | | 86 | J | | 131J34019X |
| | | G8 | A | | 131A34019X |

### Coaxial contacts, angled
### PCB termination, 3 solder pins

**Socket contact**






| Impedance [Ω] | Shell size | Code use with part no. creator | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 50 | 1-4 | 78 | J | E228329 | 132J25019X |
| | | G9 | A | | 132A25019X |
| | 5 | 79 | J | | 132J25029X |
| | | H1 | A | | 132A25029X |
| 75 | 1-4 | 88 | J | | 132J35019X |
| | | H2 | A | | 132A35019X |
| | 5 | 89 | J | | 132J35029X |
| | | H3 | A | | 132A35029X |

| Shellsize | A | B | C | D | E |
|---|---|---|---|---|---|
| 1-4 | 13.80 | 9.30 | 21.20 | 11.00 | 9.30 |
| 5 | 16.80 | 11.80 | 23.70 | 14.00 | 11.80 |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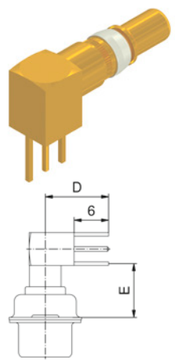
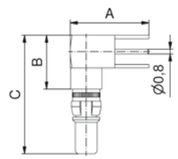
## Combination D-SUB Connectors
### Contacts

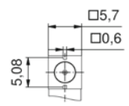
### Coaxial contacts, angled
### PCB termination, 3 solder pins

*Quality class J >= 500 mating cyles*
*Quality class 3 (A) = 50 mating cyles*

**Plug contact**




| Impedance [Ω] | Shell size | Code use with part no. creator | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 50 | 1-4 | 78 | J | E228329 | 131J25019X |
| | | G9 | A | | 131A25019X |
| | 5 | 79 | J | | 131J25029X |
| | | H1 | A | | 131A25029X |
| 75 | 1-4 | 88 | J | | 131J35019X |
| | | H2 | A | | 131A35019X |
| | 5 | 89 | J | | 131J35029X |
| | | H3 | A | | 131A35029X |

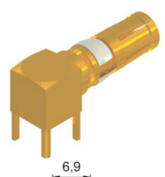
| Shellsize | A | B | C | D | E |
|---|---|---|---|---|---|
| 1-4 | 13.80 | 9.30 | 20.70 | 11.00 | 9.30 |
| 5 | 16.80 | 11.80 | 23.20 | 14.00 | 11.80 |

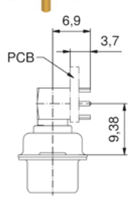
## Combination D-SUB Connectors
### Contacts

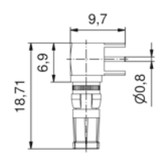
### Coaxial contacts, straight
### PCB termination, 5 solder pins

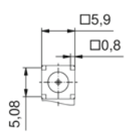
*Quality class J >= 500 mating cyles*
*Quality class 3 (A) = 50 mating cyles*

**Socket contact**



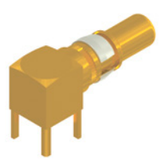


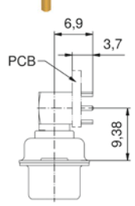



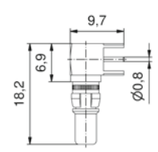



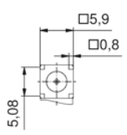

| Impedance [Ω] | Shell size | Code use with part no. creator | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 50 | 1-4 | 80 | J | E228329 | 132J25519X |
| | | H4 | A | | 132A25519X |
| 75 | | 90 | J | | 132J35519X |
| | | H5 | A | | 132A35519X |

**Plug contact**






| Impedance [Ω] | Shell size | Code use with part no. creator | Quality class | UL-File | Part No. |
|---|---|---|---|---|---|
| 50 | 1-4 | 80 | J | E228329 | 131J25519X |
| | | H4 | A | | 131A25519X |
| 75 | | 90 | J | | 131J35519X |
| | | H5 | A | | 131A35519X |



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Section 3

# Filter D-SUB Connectors

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# Filter D-SUB Connectors

## Product spezification

| Basic material | Filter D-SUB Standard<br>9-, 15-, 25-, 37-, 50-position | Filter D-SUB High Density<br>15-, 25-, 44-, 62-, 78-position |
|---|---|---|
| Contacts | Copper alloy | |
| Contact plating | Gold over nickel | |
| Insulator | PBT GF UL 94 V-O | |
| Shell | Steel tin plated (on request: brass tin plated) | |

| Technical data | | |
|---|---|---|
| Dielectric with standing voltage | • Standard 424 VDC<br>• Standard (π-Filter) 300 VDC<br>• High DWV 707 VDC<br>• Ultra high DWV 1500 VDC*<br>• Ultra high DWV (π-Filter) 1000 VDC*<br>*on request | • Standard 300 VDC |
| Working voltage | • Standard 100 VDC*<br>• High DWV 100 VDC*<br>• Ultra high DWV 200 VDC* | • Standard 100 VDC* |
| | *Depending on isolation coordination (refer to DIN VDE 0110/IEC 664-1) | |
| Voltage surge 10/700 µs | • Standard 300 V<br>• High Voltage 500 V | • Standard 300 V |
| Current rating | 7.5 A (UL) / 5 A (CSA,VDE) | 3 A (UL,VDE) 2.5 A (CSA) |
| Contact resistance | max. 10 mΩ vor Beanspruchung, Δ R max. 10 mΩ nach Beanspruchung<br>refer to IEC 60807-2 | |
| Insulation resistance | ≥ 1GΩ | |
| Capacitor values | 370 pF ± 20 % tolerance<br>830 pF ± 20 % tolerance<br>1300 pF ± 20 % tolerance | 370 pF ± 20 % tolerance<br>830 pF ± 20 % tolerance |
| | other capacitor values on request | |
| Operating temperature | -25 °C to +105 °C | -25 °C to +85 °C |
| Humidity | 40 °C / 85 % relative humidity / RH | |
| Mating and unmating forces | 9-pos. ≤ 30 N<br>15-pos. ≤ 50 N<br>25-pos. ≤ 83 N<br>37-pos. ≤ 123 N<br>50-pos. ≤ 167 N | 15-pos. ≤ 50 N<br>26-pos. ≤ 83 N<br>44-pos. ≤ 110 N<br>62-pos. ≤ 170 N<br>78-pos. ≤ 200 N |
| Quality class | A= Quality class 3 = 50 mating cycles, B = Quality class 2 = 200 mating cycles, C = Quality class 1 = 500 mating cycles | |

| Solder parameter | Preheating | | Solder terminal dipping parameters | |
|---|---|---|---|---|
| | max. temperature | Duration | max. Solder bath temperature | max. Terminal Immersion Time |
| Recommended wave-solder parameters | 100 °C | 30 s | 260 °C | 5 s |

Technical specifications are subject to change without notice.


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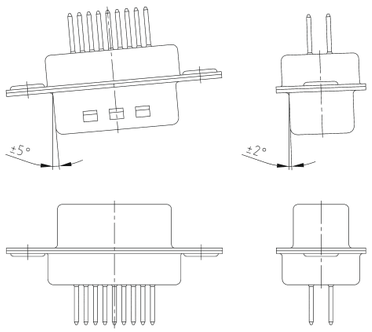
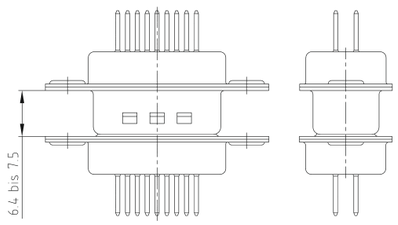
## Mating conditions

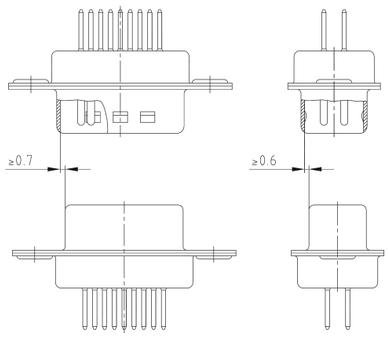
### Max. tilt angle for connector mating




### Range for safe contact

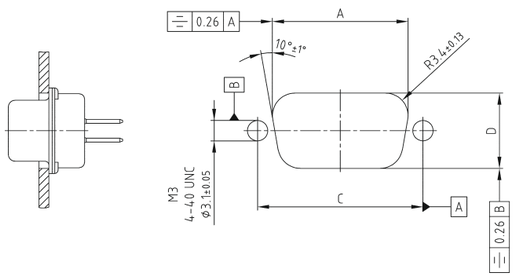



### Lock-in range

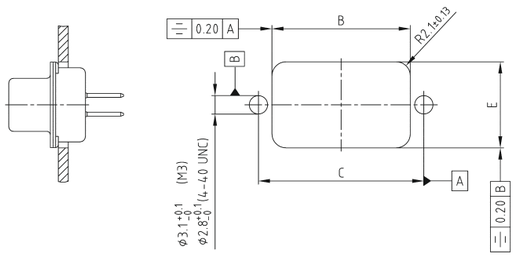



## Panel cut-out

### Back panel mounting




### Front panel mounting




| Shell size | No. of poles | | A ± 0.1 | B ± 0.1 | C ± 0,1 | D ± 0.1 | E ± 0.1 |
|---|---|---|---|---|---|---|---|
| 1 | 9 | 15 | 20.50 | 22.20 | 25.00 | 11.40 | 13.00 |
| 2 | 15 | 26 | 28.80 | 30.50 | 33.30 | 11.40 | 13.00 |
| 3 | 25 | 44 | 42.50 | 44.30 | 47.04 | 11.40 | 13.00 |
| 4 | 37 | 62 | 59.10 | 60.70 | 63.50 | 11.40 | 13.00 |
| 5 | 50 | 78 | 56.30 | 58.30 | 61.10 | 14.10 | 15.80 |

Technical specifications are subject to change without notice.



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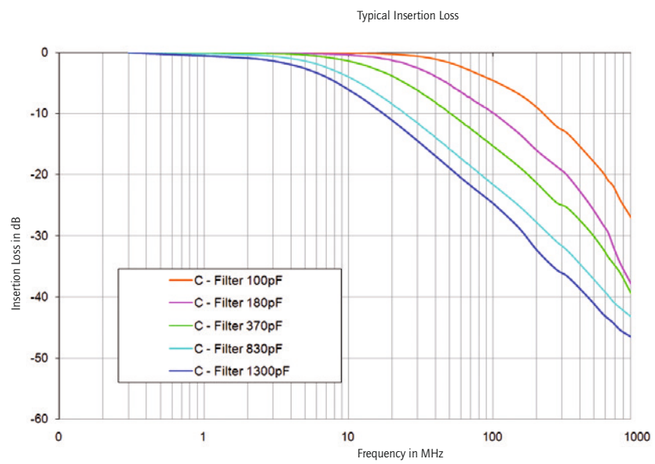
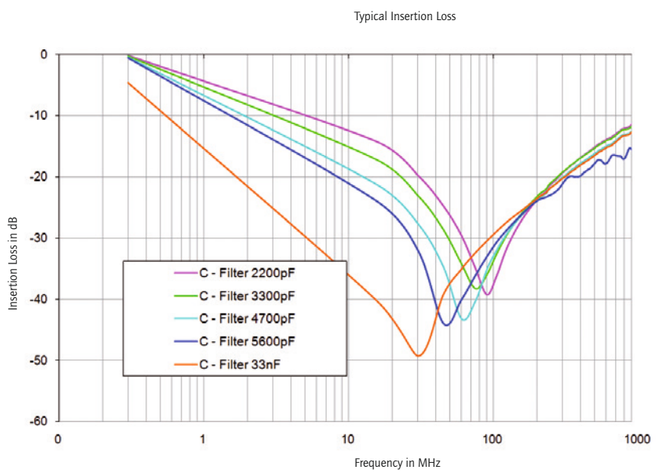
## Insertion loss

### C-Filter with planar filter technology




### C-Filter with chip technology

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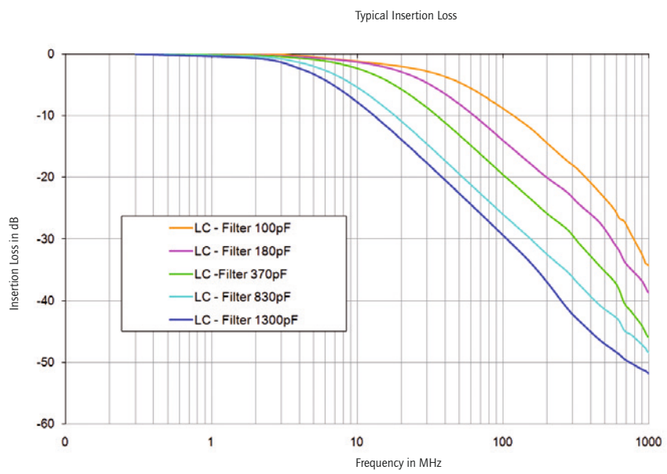
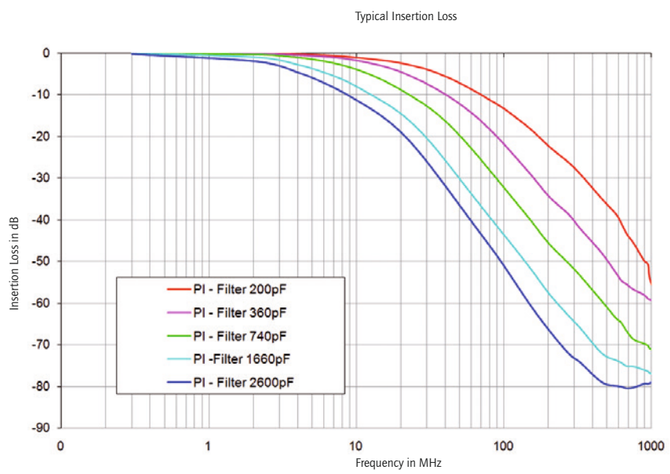
## Insertion loss

### LC-Filter with planar filter technology




### π-Filter with planar filter technology




Technical specifications are subject to change without notice.



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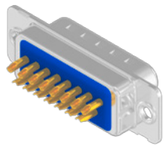
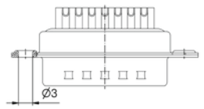
# Filter D-SUB Connectors
## C-Filter Standard

### Solder cup
### Precision machined contacts, AWG 20

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

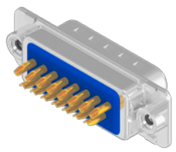
**Through-hole Ø 3 mm**

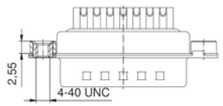





| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A26780X | 241A26880X |
| 15 | | | | | | 242A26790X | 241A26890X |
| 25 | | | | | | 242A26800X | 241A26900X |
| 37 | | | | | | 242A26810X | 241A26910X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A26820X | 241A26920X |
| 15 | | | | | | 242A26830X | 241A26930X |
| 25 | | | | | | 242A26840X | 241A26940X |
| 37 | | | | | | 242A26850X | 241A26950X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A26860X | 241A26960X |
| 15 | | | | | | 242A26870X | 241A26970X |
| 25 | | | | | | 242A26880X | 241A26980X |
| 37 | | | | | | 242A26890X | 241A26990X |

**4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A26940X | 241A27040X |
| 15 | | | | | | 242A26950X | 241A27050X |
| 25 | | | | | | 242A26960X | 241A27060X |
| 37 | | | | | | 242A26970X | 241A27070X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A26980X | 241A27080X |
| 15 | | | | | | 242A26990X | 241A27090X |
| 25 | | | | | | 242A27000X | 241A27100X |
| 37 | | | | | | 242A27010X | 241A27110X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A27020X | 241A27120X |
| 15 | | | | | | 242A27030X | 241A27130X |
| 25 | | | | | | 242A27040X | 241A27140X |
| 37 | | | | | | 242A27050X | 241A27150X |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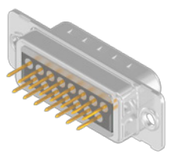
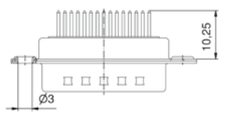
# Filter D-SUB Connectors
## C-Filter Standard

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

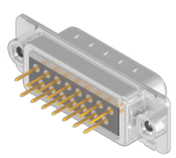
**Through-hole Ø 3 mm**

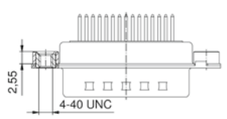





| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A10010X | 241A10010X |
| 15 | | | | | | 242A10020X | 241A10020X |
| 25 | | | | | | 242A10030X | 241A10030X |
| 37 | | | | | | 242A10040X | 241A10040X |
| 50 | | | | | | 242A15580X | 241A15690X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A10090X | 241A10090X |
| 15 | | | | | | 242A10100X | 241A10100X |
| 25 | | | | | | 242A10110X | 241A10110X |
| 37 | | | | | | 242A10120X | 241A10120X |
| 50 | | | | | | 242A15600X | 241A15710X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A10050X | 241A10050X |
| 15 | | | | | | 242A10060X | 241A10060X |
| 25 | | | | | | 242A10070X | 241A10070X |
| 37 | | | | | | 242A10080X | 241A10080X |
| 50 | | | | | | 242A15590X | 241A15700X |

**4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A10130X | 241A10130X |
| 15 | | | | | | 242A10140X | 241A10140X |
| 25 | | | | | | 242A10150X | 241A10150X |
| 37 | | | | | | 242A10160X | 241A10160X |
| 50 | | | | | | 242A15610X | 241A15720X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A10210X | 241A10210X |
| 15 | | | | | | 242A10220X | 241A10220X |
| 25 | | | | | | 242A10230X | 241A10230X |
| 37 | | | | | | 242A10240X | 241A10240X |
| 50 | | | | | | 242A15630X | 241A15740X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A10170X | 241A10170X |
| 15 | | | | | | 242A10180X | 241A10180X |
| 25 | | | | | | 242A10190X | 241A10190X |
| 37 | | | | | | 242A10200X | 241A10200X |
| 50 | | | | | | 242A15620X | 241A15730X |



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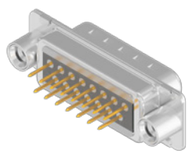
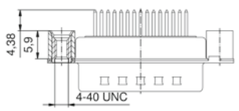
# Filter D-SUB Connectors
## C-Filter Standard

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

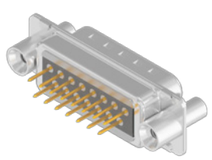
**4-40 UNC threaded rear spacer**

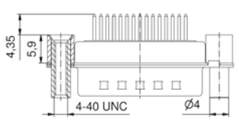





| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A10370X | 241A10370X |
| 15 | | | | | | 242A10380X | 241A10380X |
| 25 | | | | | | 242A10390X | 241A10390X |
| 37 | | | | | | 242A10400X | 241A10400X |
| 50 | | | | | | 242A15670X | 241A15780X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A10450X | 241A10450X |
| 15 | | | | | | 242A10460X | 241A10460X |
| 25 | | | | | | 242A10470X | 241A10470X |
| 37 | | | | | | 242A10480X | 241A10480X |
| 50 | | | | | | 242A15690X | 241A15800X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A10410X | 241A10410X |
| 15 | | | | | | 242A10420X | 241A10420X |
| 25 | | | | | | 242A10430X | 241A10430X |
| 37 | | | | | | 242A10440X | 241A10440X |
| 50 | | | | | | 242A15680X | 241A15790X |

**4-40 UNC front, threaded rear spacer**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A10610X | 241A10610X |
| 15 | | | | | | 242A10620X | 241A10620X |
| 25 | | | | | | 242A10630X | 241A10630X |
| 37 | | | | | | 242A10640X | 241A10640X |
| 50 | | | | | | 242A15730X | 241A15840X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A10690X | 241A10690X |
| 15 | | | | | | 242A10700X | 241A10700X |
| 25 | | | | | | 242A10710X | 241A10710X |
| 37 | | | | | | 242A10720X | 241A10720X |
| 50 | | | | | | 242A15750X | 241A15860X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A10650X | 241A10650X |
| 15 | | | | | | 242A10660X | 241A10660X |
| 25 | | | | | | 242A10670X | 241A10670X |
| 37 | | | | | | 242A10680X | 241A10680X |
| 50 | | | | | | 242A15740X | 241A15850X |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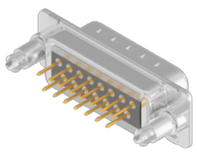
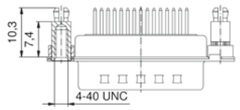
# Filter D-SUB Connectors
## C-Filter Standard

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

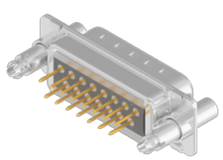
**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**

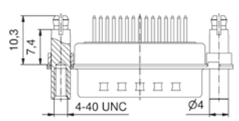





| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A14980X | 241A15090X |
| 15 | | | | | | 242A14990X | 241A15100X |
| 25 | | | | | | 242A15000X | 241A15110X |
| 37 | | | | | | 242A15010X | 241A15120X |
| 50 | | | | | | 242A15020X | 241A15130X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A15080X | 241A15190X |
| 15 | | | | | | 242A15090X | 241A15200X |
| 25 | | | | | | 242A15100X | 241A15210X |
| 37 | | | | | | 242A15110X | 241A15220X |
| 50 | | | | | | 242A15120X | 241A15230X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A15030X | 241A15140X |
| 15 | | | | | | 242A15040X | 241A15150X |
| 25 | | | | | | 242A15050X | 241A15160X |
| 37 | | | | | | 242A15060X | 241A15170X |
| 50 | | | | | | 242A15070X | 241A15180X |

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A15280X | 241A15390X |
| 15 | | | | | | 242A15290X | 241A15400X |
| 25 | | | | | | 242A15300X | 241A15410X |
| 37 | | | | | | 242A15310X | 241A15420X |
| 50 | | | | | | 242A15320X | 241A15430X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A15380X | 241A15490X |
| 15 | | | | | | 242A15390X | 241A15500X |
| 25 | | | | | | 242A15400X | 241A15510X |
| 37 | | | | | | 242A15410X | 241A15520X |
| 50 | | | | | | 242A15420X | 241A15530X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A15330X | 241A15440X |
| 15 | | | | | | 242A15340X | 241A15450X |
| 25 | | | | | | 242A15350X | 241A15460X |
| 37 | | | | | | 242A15360X | 241A15470X |
| 50 | | | | | | 242A15370X | 241A15480X |



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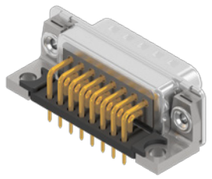
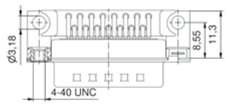
# Filter D-SUB Connectors
## C-Filter Standard

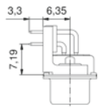
### Solder pin, angled, .318"/7.19 mm
### Precision machined contacts, metal bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

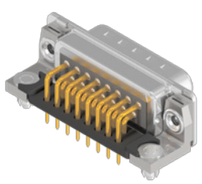


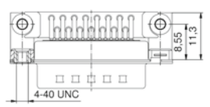


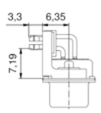




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A12340X | 241A12320X |
| 15 | | | | | | 242A12350X | 241A12330X |
| 25 | | | | | | 242A12360X | 241A12340X |
| 37 | | | | | | 242A12370X | 241A12350X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A12420X | 241A12400X |
| 15 | | | | | | 242A12430X | 241A12410X |
| 25 | | | | | | 242A12440X | 241A12420X |
| 37 | | | | | | 242A12450X | 241A12430X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A12380X | 241A12360X |
| 15 | | | | | | 242A12390X | 241A12370X |
| 25 | | | | | | 242A12400X | 241A12380X |
| 37 | | | | | | 242A12410X | 241A12390X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A17740X | 241A16140X |
| 15 | | | | | | 242A17750X | 241A16150X |
| 25 | | | | | | 242A17760X | 241A16160X |
| 37 | | | | | | 242A17770X | 241A16170X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A17700X | 241A16100X |
| 15 | | | | | | 242A17710X | 241A16110X |
| 25 | | | | | | 242A17720X | 241A16120X |
| 37 | | | | | | 242A17730X | 241A16130X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A17660X | 241A16060X |
| 15 | | | | | | 242A17670X | 241A16070X |
| 25 | | | | | | 242A17680X | 241A16080X |
| 37 | | | | | | 242A17690X | 241A16090X |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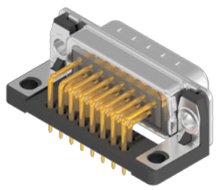
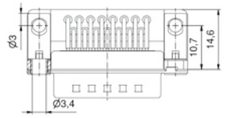
## Filter D-SUB Connectors
### C-Filter Standard

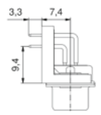
**Solder pin, angled, .370"/9.4 mm**
**Precision machined contacts, plastic bracket**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Grounding strap, through-hole Ø 3.4 mm**

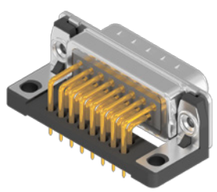


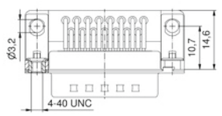


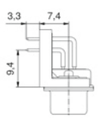




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A10970X | 241A10970X |
| 15 | | | | | | 242A10980X | 241A10980X |
| 25 | | | | | | 242A10990X | 241A10990X |
| 37 | | | | | | 242A11000X | 241A11000X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A11050X | 241A11050X |
| 15 | | | | | | 242A11060X | 241A11060X |
| 25 | | | | | | 242A11070X | 241A11070X |
| 37 | | | | | | 242A11080X | 241A11080X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A11010X | 241A11010X |
| 15 | | | | | | 242A11020X | 241A11020X |
| 25 | | | | | | 242A11030X | 241A11030X |
| 37 | | | | | | 242A11040X | 241A11040X |

**Grounding strap, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A11090X | 241A11090X |
| 15 | | | | | | 242A11100X | 241A11100X |
| 25 | | | | | | 242A11110X | 241A11110X |
| 37 | | | | | | 242A11120X | 241A11120X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A11170X | 241A11170X |
| 15 | | | | | | 242A11180X | 241A11180X |
| 25 | | | | | | 242A11190X | 241A11190X |
| 37 | | | | | | 242A11200X | 241A11200X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A11130X | 241A11130X |
| 15 | | | | | | 242A11140X | 241A11140X |
| 25 | | | | | | 242A11150X | 241A11150X |
| 37 | | | | | | 242A11160X | 241A11160X |



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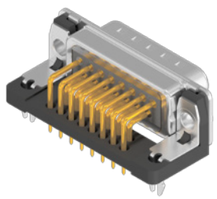
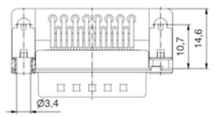
# Filter D-SUB Connectors
## C-Filter Standard

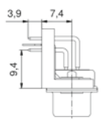
### Solder pin, angled, .370"/9.4 mm
### Precision machined contacts, plastic bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Clip for PCB 1.6 mm, through-hole Ø 3.4 mm**

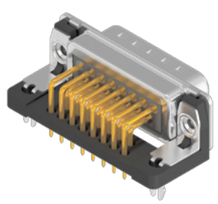


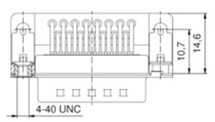


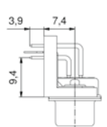




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A12700X | 241A12680X |
| 15 | | | | | | 242A12710X | 241A12690X |
| 25 | | | | | | 242A12720X | 241A12700X |
| 37 | | | | | | 242A12730X | 241A12710X |
| 50 | | | | | | 242A23990X | 241A24090X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A12780X | 241A12760X |
| 15 | | | | | | 242A12790X | 241A12770X |
| 25 | | | | | | 242A12800X | 241A12780X |
| 37 | | | | | | 242A12810X | 241A12790X |
| 50 | | | | | | 242A24000X | 241A24100X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A12740X | 241A12720X |
| 15 | | | | | | 242A12750X | 241A12730X |
| 25 | | | | | | 242A12760X | 241A12740X |
| 37 | | | | | | 242A12770X | 241A12750X |
| 50 | | | | | | 242A24010X | 241A24110X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A12820X | 241A12800X |
| 15 | | | | | | 242A12830X | 241A12810X |
| 25 | | | | | | 242A12840X | 241A12820X |
| 37 | | | | | | 242A12850X | 241A12830X |
| 50 | | | | | | 242A24030X | 241A24130X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A12900X | 241A12880X |
| 15 | | | | | | 242A12910X | 241A12890X |
| 25 | | | | | | 242A12920X | 241A12900X |
| 37 | | | | | | 242A12930X | 241A12910X |
| 50 | | | | | | 242A24040X | 241A24140X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A12860X | 241A12840X |
| 15 | | | | | | 242A12870X | 241A12850X |
| 25 | | | | | | 242A12880X | 241A12860X |
| 37 | | | | | | 242A12890X | 241A12870X |
| 50 | | | | | | 242A24050X | 241A24150X |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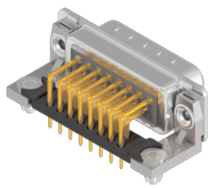
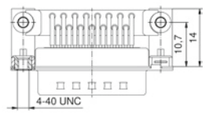
# Filter D-SUB Connectors
## C-Filter Standard

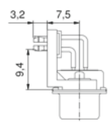
### Solder pin, angled, .370"/9.4 mm
### Precision machined contacts, metal bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**

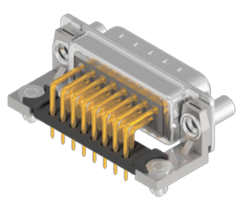


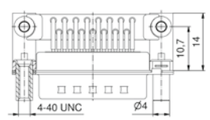


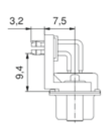




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A21450X | 241A21600X |
| 15 | | | | | | 242A21460X | 241A21610X |
| 25 | | | | | | 242A21470X | 241A21620X |
| 37 | | | | | | 242A21480X | 241A21630X |
| 50 | | | | | | 242A27230X | 241A27330X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A21490X | 241A21640X |
| 15 | | | | | | 242A21500X | 241A21650X |
| 25 | | | | | | 242A21510X | 241A21660X |
| 37 | | | | | | 242A21520X | 241A21670X |
| 50 | | | | | | 242A27240X | 241A27340X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A21530X | 241A21680X |
| 15 | | | | | | 242A21540X | 241A21690X |
| 25 | | | | | | 242A21550X | 241A21700X |
| 37 | | | | | | 242A21560X | 241A21710X |
| 50 | | | | | | 242A27250X | 241A27350X |

**Clip for PCB 1.6 mm, 4-40 UNC front spacer**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A22440X | 241A22540X |
| 15 | | | | | | 242A22450X | 241A22550X |
| 25 | | | | | | 242A22460X | 241A22560X |
| 37 | | | | | | 242A22470X | 241A22570X |
| 50 | | | | | | 242A27310X | 241A27410X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A22480X | 241A22580X |
| 15 | | | | | | 242A22490X | 241A22590X |
| 25 | | | | | | 242A22500X | 241A22600X |
| 37 | | | | | | 242A22510X | 241A22610X |
| 50 | | | | | | 242A27320X | 241A27420X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A22520X | 241A22620X |
| 15 | | | | | | 242A22530X | 241A22630X |
| 25 | | | | | | 242A22540X | 241A22640X |
| 37 | | | | | | 242A22550X | 241A22650X |
| 50 | | | | | | 242A27330X | 241A27430X |



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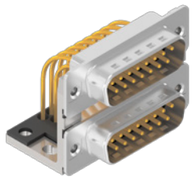
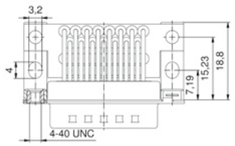
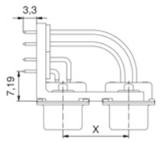
# Filter D-SUB Connectors
## C-Filter Dual Port

### Plug upper - Plug bottom
### Solder pin, angled, precision machined contacts

4-40 UNC threaded insert






*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | .625, 15,88 | 241A14130X |
| 15/15 | | | | | | | 241A14140X |
| 25/25 | | | | | | | 241A14150X |
| 37/37 | | | | | | | 241A14160X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | .625, 15,88 | 241A14210X |
| 15/15 | | | | | | | 241A14220X |
| 25/25 | | | | | | | 241A14230X |
| 37/37 | | | | | | | 241A14240X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | .625, 15,88 | 241A14170X |
| 15/15 | | | | | | | 241A14180X |
| 25/25 | | | | | | | 241A14190X |
| 37/37 | | | | | | | 241A14200X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | .750, 19,05 | 241A14610X |
| 15/15 | | | | | | | 241A14620X |
| 25/25 | | | | | | | 241A14630X |
| 37/37 | | | | | | | 241A14640X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | .750, 19,05 | 241A14690X |
| 15/15 | | | | | | | 241A14700X |
| 25/25 | | | | | | | 241A14710X |
| 37/37 | | | | | | | 241A14720X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | .750, 19,05 | 241A14650X |
| 15/15 | | | | | | | 241A14660X |
| 25/25 | | | | | | | 241A14670X |
| 37/37 | | | | | | | 241A14680X |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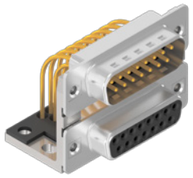
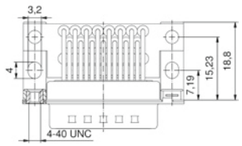
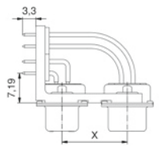
# Filter D-SUB Connectors
## C-Filter Dual Port

### Plug upper - Socket bottom
### Solder pin, angled, precision machined contacts

4-40 UNC threaded insert






*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | .625, 15,88 | 241A14250X |
| 15/15 | | | | | | | 241A14260X |
| 25/25 | | | | | | | 241A14270X |
| 37/37 | | | | | | | 241A14280X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | .625, 15,88 | 241A14330X |
| 15/15 | | | | | | | 241A14340X |
| 25/25 | | | | | | | 241A14350X |
| 37/37 | | | | | | | 241A14360X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | .625, 15,88 | 241A14290X |
| 15/15 | | | | | | | 241A14300X |
| 25/25 | | | | | | | 241A14310X |
| 37/37 | | | | | | | 241A14320X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | .750, 19,05 | 241A14730X |
| 15/15 | | | | | | | 241A14740X |
| 25/25 | | | | | | | 241A14750X |
| 37/37 | | | | | | | 241A14760X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | .750, 19,05 | 241A14810X |
| 15/15 | | | | | | | 241A14820X |
| 25/25 | | | | | | | 241A14830X |
| 37/37 | | | | | | | 241A14840X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | .750, 19,05 | 241A14770X |
| 15/15 | | | | | | | 241A14780X |
| 25/25 | | | | | | | 241A14790X |
| 37/37 | | | | | | | 241A14800X |



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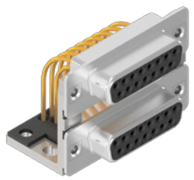
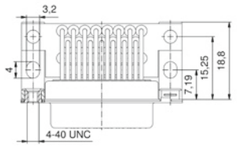
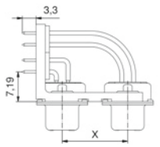
# Filter D-SUB Connectors
## C-Filter Dual Port

### Socket upper - Socket bottom
### Solder pin, angled, precision machined contacts

4-40 UNC threaded insert






*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | .625, 15,88 | 242A14020X |
| 15/15 | | | | | | | 242A14030X |
| 25/25 | | | | | | | 242A14040X |
| 37/37 | | | | | | | 242A14050X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | .625, 15,88 | 242A14100X |
| 15/15 | | | | | | | 242A14110X |
| 25/25 | | | | | | | 242A14120X |
| 37/37 | | | | | | | 242A14130X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | .625, 15,88 | 242A14060X |
| 15/15 | | | | | | | 242A14070X |
| 25/25 | | | | | | | 242A14080X |
| 37/37 | | | | | | | 242A14090X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | .750, 19,05 | 242A14500X |
| 15/15 | | | | | | | 242A14510X |
| 25/25 | | | | | | | 242A14520X |
| 37/37 | | | | | | | 242A14530X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | .750, 19,05 | 242A14580X |
| 15/15 | | | | | | | 242A14590X |
| 25/25 | | | | | | | 242A14600X |
| 37/37 | | | | | | | 242A14610X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | .750, 19,05 | 242A14540X |
| 15/15 | | | | | | | 242A14550X |
| 25/25 | | | | | | | 242A14560X |
| 37/37 | | | | | | | 242A14570X |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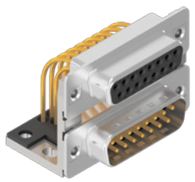
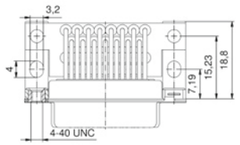
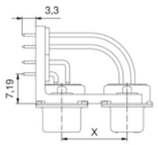
# Filter D-SUB Connectors
## C-Filter Dual Port

### Socket upper - Plug buttom
### Solder pin, angled, precision machined contacts

4-40 UNC threaded insert






*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Connector spacing X = [inches, mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | .625, 15,88 | 242A14140X |
| 15/15 | | | | | | | 242A14150X |
| 25/25 | | | | | | | 242A14160X |
| 37/37 | | | | | | | 242A14170X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | .625, 15,88 | 242A14220X |
| 15/15 | | | | | | | 242A14230X |
| 25/25 | | | | | | | 242A14240X |
| 37/37 | | | | | | | 242A14250X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | .625, 15,88 | 242A14180X |
| 15/15 | | | | | | | 242A14190X |
| 25/25 | | | | | | | 242A14200X |
| 37/37 | | | | | | | 242A14210X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | .750, 19,05 | 242A14620X |
| 15/15 | | | | | | | 242A14630X |
| 25/25 | | | | | | | 242A14640X |
| 37/37 | | | | | | | 242A14650X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | .750, 19,05 | 242A14700X |
| 15/15 | | | | | | | 242A14710X |
| 25/25 | | | | | | | 242A14720X |
| 37/37 | | | | | | | 242A14730X |
| 09/09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | .750, 19,05 | 242A14660X |
| 15/15 | | | | | | | 242A14670X |
| 25/25 | | | | | | | 242A14680X |
| 37/37 | | | | | | | 242A14690X |



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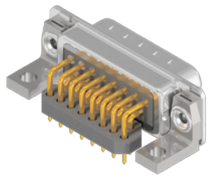
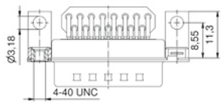
## Filter D-SUB Connectors
### LC-Filter Standard

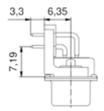
**Solder pin, angled, .318"/7.19 mm**
**Precision machined contacts, metal bracket**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

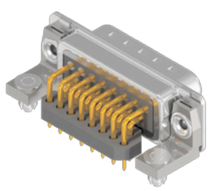


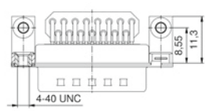


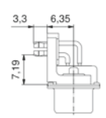




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A24700X | 241A24800X |
| 15 | | | | | | 242A24710X | 241A24810X |
| 25 | | | | | | 242A24720X | 241A24820X |
| 37 | | | | | | 242A24730X | 241A24830X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A24740X | 241A24840X |
| 15 | | | | | | 242A24750X | 241A24850X |
| 25 | | | | | | 242A24760X | 241A24860X |
| 37 | | | | | | 242A24770X | 241A24870X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A24780X | 241A24880X |
| 15 | | | | | | 242A24790X | 241A24890X |
| 25 | | | | | | 242A24800X | 241A24900X |
| 37 | | | | | | 242A24810X | 241A24910X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A24860X | 241A24960X |
| 15 | | | | | | 242A24870X | 241A24970X |
| 25 | | | | | | 242A24880X | 241A24980X |
| 37 | | | | | | 242A24890X | 241A24990X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A24900X | 241A25000X |
| 15 | | | | | | 242A24910X | 241A25010X |
| 25 | | | | | | 242A24920X | 241A25020X |
| 37 | | | | | | 242A24930X | 241A25030X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A24940X | 241A25040X |
| 15 | | | | | | 242A24950X | 241A25050X |
| 25 | | | | | | 242A24960X | 241A25060X |
| 37 | | | | | | 242A24970X | 241A25070X |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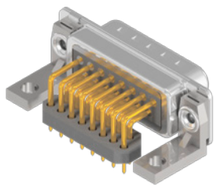
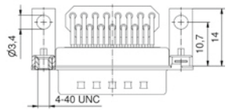
# Filter D-SUB Connectors
## LC-Filter Standard

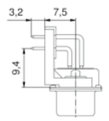
### Solder pin, angled, .370"/9.4 mm
### Precision machined contacts, metal bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

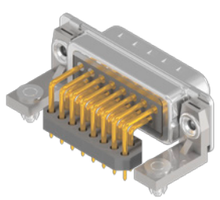


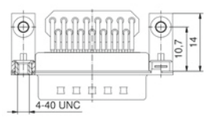


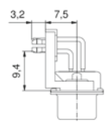




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A25020X | 241A25120X |
| 15 | | | | | | 242A25030X | 241A25130X |
| 25 | | | | | | 242A25040X | 241A25140X |
| 37 | | | | | | 242A25050X | 241A25150X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A25060X | 241A25160X |
| 15 | | | | | | 242A25070X | 241A25170X |
| 25 | | | | | | 242A25080X | 241A25180X |
| 37 | | | | | | 242A25090X | 241A25190X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A25100X | 241A25200X |
| 15 | | | | | | 242A25110X | 241A25210X |
| 25 | | | | | | 242A25120X | 241A25220X |
| 37 | | | | | | 242A25130X | 241A25230X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 242A25340X | 241A25440X |
| 15 | | | | | | 242A25350X | 241A25450X |
| 25 | | | | | | 242A25360X | 241A25460X |
| 37 | | | | | | 242A25370X | 241A25470X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 242A25380X | 241A25480X |
| 15 | | | | | | 242A25390X | 241A25490X |
| 25 | | | | | | 242A25400X | 241A25500X |
| 37 | | | | | | 242A25410X | 241A25510X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 242A25420X | 241A25520X |
| 15 | | | | | | 242A25430X | 241A25530X |
| 25 | | | | | | 242A25440X | 241A25540X |
| 37 | | | | | | 242A25450X | 241A25550X |



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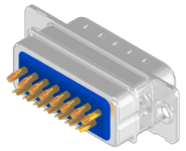
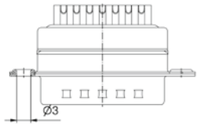
# Filter D-SUB Connectors
## π-Filter Standard

### Solder cup
### Precision machined contacts, AWG 20

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

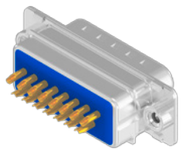
**Through-hole Ø 3 mm**

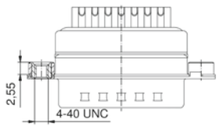





| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 370 | 242A29020X | 241A29120X |
| 15 | | | | | | 242A29030X | 241A29130X |
| 25 | | | | | | 242A29040X | 241A29140X |
| 37 | | | | | | 242A29050X | 241A29150X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 830 | 242A29060X | 241A29160X |
| 15 | | | | | | 242A29070X | 241A29170X |
| 25 | | | | | | 242A29080X | 241A29180X |
| 37 | | | | | | 242A29090X | 241A29190X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 1300 | 242A29100X | 241A29200X |
| 15 | | | | | | 242A29110X | 241A29210X |
| 25 | | | | | | 242A29120X | 241A29220X |
| 37 | | | | | | 242A29130X | 241A29230X |

**4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 370 | 242A29180X | 241A29280X |
| 15 | | | | | | 242A29190X | 241A29290X |
| 25 | | | | | | 242A29200X | 241A29300X |
| 37 | | | | | | 242A29210X | 241A29310X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 830 | 242A29220X | 241A29320X |
| 15 | | | | | | 242A29230X | 241A29330X |
| 25 | | | | | | 242A29240X | 241A29340X |
| 37 | | | | | | 242A29250X | 241A29350X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 1300 | 242A29260X | 241A29360X |
| 15 | | | | | | 242A29270X | 241A29370X |
| 25 | | | | | | 242A29280X | 241A29380X |
| 37 | | | | | | 242A29290X | 241A29390X |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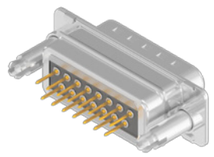
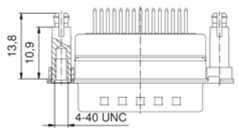
## Filter D-SUB Connectors
### π-Filter Standard

**Solder pin, straight**
**Precision machined contacts**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**





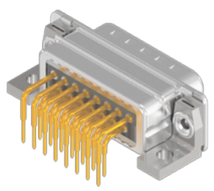

| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 370 | 242A26300X | 241A26400X |
| 15 | | | | | | 242A26310X | 241A26410X |
| 25 | | | | | | 242A26320X | 241A26420X |
| 37 | | | | | | 242A26330X | 241A26430X |
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 830 | 242A26340X | 241A26440X |
| 15 | | | | | | 242A26350X | 241A26450X |
| 25 | | | | | | 242A26360X | 241A26460X |
| 37 | | | | | | 242A26370X | 241A26470X |
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 1300 | 242A26380X | 241A26480X |
| 15 | | | | | | 242A26390X | 241A26490X |
| 25 | | | | | | 242A26400X | 241A26500X |
| 37 | | | | | | 242A26410X | 241A26510X |

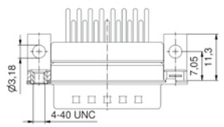
## Filter D-SUB Connectors
### π-Filter Standard

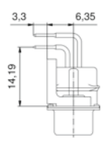
**Solder pin, angled, .590"/14.19 mm**
**Precision machined contacts, metal bracket**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

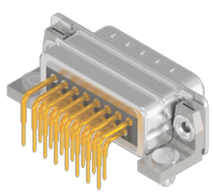


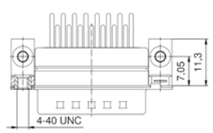


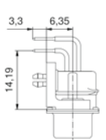




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 370 | 242A25980X | 241A26080X |
| 15 | | | | | | 242A25990X | 241A26090X |
| 25 | | | | | | 242A26000X | 241A26100X |
| 37 | | | | | | 242A26010X | 241A26110X |
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 830 | 242A26020X | 241A26120X |
| 15 | | | | | | 242A26030X | 241A26130X |
| 25 | | | | | | 242A26040X | 241A26140X |
| 37 | | | | | | 242A26050X | 241A26150X |
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 1300 | 242A26060X | 241A26160X |
| 15 | | | | | | 242A26070X | 241A26170X |
| 25 | | | | | | 242A26080X | 241A26180X |
| 37 | | | | | | 242A26090X | 241A26190X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 370 | 242A26140X | 241A26240X |
| 15 | | | | | | 242A26150X | 241A26250X |
| 25 | | | | | | 242A26160X | 241A26260X |
| 37 | | | | | | 242A26170X | 241A26270X |
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 830 | 242A26180X | 241A26280X |
| 15 | | | | | | 242A26190X | 241A26290X |
| 25 | | | | | | 242A26200X | 241A26300X |
| 37 | | | | | | 242A26210X | 241A26310X |
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 1300 | 242A26220X | 241A26320X |
| 15 | | | | | | 242A26230X | 241A26330X |
| 25 | | | | | | 242A26240X | 241A26340X |
| 37 | | | | | | 242A26250X | 241A26350X |



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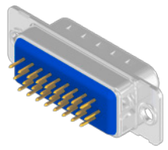
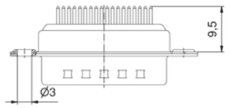
# Filter D-SUB Connectors
## C-Filter High Density

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

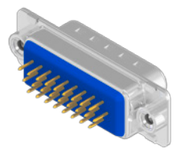
**Through-hole Ø 3 mm**

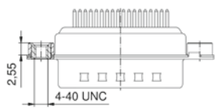





| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A17980X | 241A16380X |
| 26 | | | | | | 242A17990X | 241A16390X |
| 44 | | | | | | 242A18000X | 241A16400X |
| 62 | | | | | | 242A18010X | 241A16410X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A18020X | 241A16420X |
| 26 | | | | | | 242A18030X | 241A16430X |
| 44 | | | | | | 242A18040X | 241A16440X |
| 62 | | | | | | 242A18050X | 241A16450X |

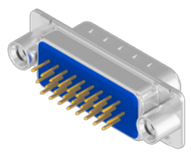
**4-40 UNC threaded insert**

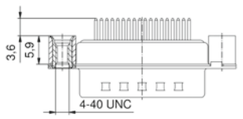





| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A18060X | 241A16460X |
| 26 | | | | | | 242A18070X | 241A16470X |
| 44 | | | | | | 242A18080X | 241A16480X |
| 62 | | | | | | 242A18090X | 241A16490X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A18100X | 241A16500X |
| 26 | | | | | | 242A18110X | 241A16510X |
| 44 | | | | | | 242A18120X | 241A16520X |
| 62 | | | | | | 242A18130X | 241A16530X |

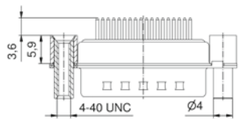
**4-40 UNC threaded rear spacer**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A18220X | 241A16620X |
| 26 | | | | | | 242A18230X | 241A16630X |
| 44 | | | | | | 242A18240X | 241A16640X |
| 62 | | | | | | 242A18250X | 241A16650X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A18260X | 241A16660X |
| 26 | | | | | | 242A18270X | 241A16670X |
| 44 | | | | | | 242A18280X | 241A16680X |
| 62 | | | | | | 242A18290X | 241A16690X |

**4-40 UNC front, threaded rear spacer**




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A18380X | 241A16780X |
| 26 | | | | | | 242A18390X | 241A16790X |
| 44 | | | | | | 242A18400X | 241A16800X |
| 62 | | | | | | 242A18410X | 241A16810X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A18420X | 241A16820X |
| 26 | | | | | | 242A18430X | 241A16830X |
| 44 | | | | | | 242A18440X | 241A16840X |
| 62 | | | | | | 242A18450X | 241A16850X |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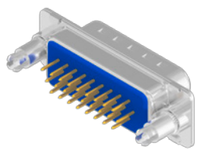
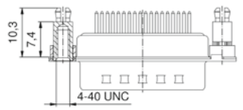
## Filter D-SUB Connectors
### C-Filter High Density

### Solder pin, straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

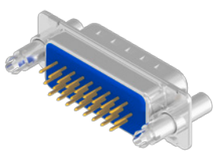
**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**

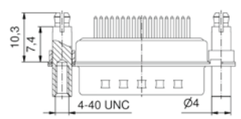





| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A20610X | 241A20760X |
| 26 | | | | | | 242A20620X | 241A20770X |
| 44 | | | | | | 242A20630X | 241A20780X |
| 62 | | | | | | 242A20640X | 241A20790X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A20650X | 241A20800X |
| 26 | | | | | | 242A20660X | 241A20810X |
| 44 | | | | | | 242A20670X | 241A20820X |
| 62 | | | | | | 242A20680X | 241A20830X |

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**





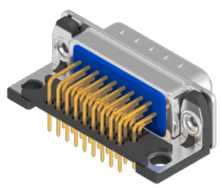

| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A20770X | 241A20920X |
| 26 | | | | | | 242A20780X | 241A20930X |
| 44 | | | | | | 242A20790X | 241A20940X |
| 62 | | | | | | 242A20800X | 241A20950X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A20810X | 241A20960X |
| 26 | | | | | | 242A20820X | 241A20970X |
| 44 | | | | | | 242A20830X | 241A20980X |
| 62 | | | | | | 242A20840X | 241A20990X |

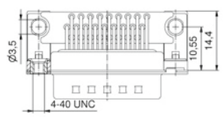
## Filter D-SUB Connectors
### C-Filter High Density

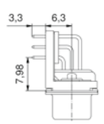
### Solder pin, angled, .350"/7.98 mm
### Precision machined contacts, plastic bracket

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Grounding strap, 4-40 UNC threaded insert**

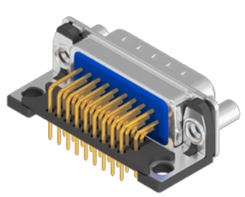


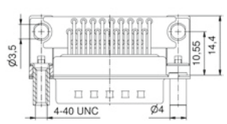


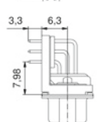




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A18690X | 241A17100X |
| 26 | | | | | | 242A18700X | 241A17110X |
| 44 | | | | | | 242A18710X | 241A17120X |
| 62 | | | | | | 242A18720X | 241A17130X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A18730X | 241A17140X |
| 26 | | | | | | 242A18740X | 241A17150X |
| 44 | | | | | | 242A18750X | 241A17160X |
| 62 | | | | | | 242A18760X | 241A17170X |

**Grounding strap, 4-40 UNC front spacer**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A18850X | 241A17260X |
| 26 | | | | | | 242A18860X | 241A17270X |
| 44 | | | | | | 242A18870X | 241A17280X |
| 62 | | | | | | 242A18880X | 241A17290X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A18890X | 241A17300X |
| 26 | | | | | | 242A18900X | 241A17310X |
| 44 | | | | | | 242A18910X | 241A17320X |
| 62 | | | | | | 242A18920X | 241A17330X |



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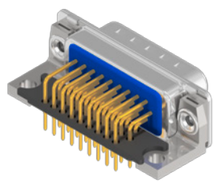
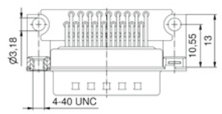
## Filter D-SUB Connectors
### C-Filter High Density

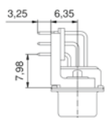
**Solder pin, angled, .350"/7.98 mm**
**Precision machined contacts, metal bracket**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

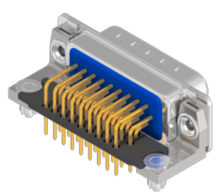


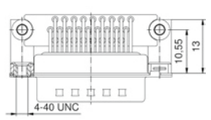


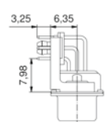




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A19810X | 241A18220X |
| 26 | | | | | | 242A19820X | 241A18230X |
| 44 | | | | | | 242A19830X | 241A18240X |
| 62 | | | | | | 242A19840X | 241A18250X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A19850X | 241A18260X |
| 26 | | | | | | 242A19860X | 241A18270X |
| 44 | | | | | | 242A19870X | 241A18280X |
| 62 | | | | | | 242A19880X | 241A18290X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**





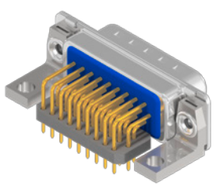

| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A19490X | 241A17900X |
| 26 | | | | | | 242A19500X | 241A17910X |
| 44 | | | | | | 242A19510X | 241A17920X |
| 62 | | | | | | 242A19520X | 241A17930X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A19530X | 241A17940X |
| 26 | | | | | | 242A19540X | 241A17950X |
| 44 | | | | | | 242A19550X | 241A17960X |
| 62 | | | | | | 242A19560X | 241A17970X |

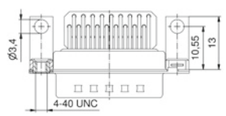
## Filter D-SUB Connectors
### LC-Filter High Density

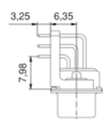
**Solder pin, angled, .350"/7.98 mm**
**Precision machined contacts, metal bracket**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

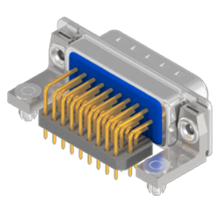


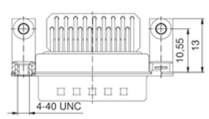


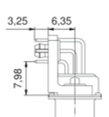




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A25620X | 241A25720X |
| 26 | | | | | | 242A25630X | 241A25730X |
| 44 | | | | | | 242A25640X | 241A25740X |
| 62 | | | | | | 242A25650X | 241A25750X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A25660X | 241A25760X |
| 26 | | | | | | 242A25670X | 241A25770X |
| 44 | | | | | | 242A25680X | 241A25780X |
| 62 | | | | | | 242A25690X | 241A25790X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 242A25780X | 241A25880X |
| 26 | | | | | | 242A25790X | 241A25890X |
| 44 | | | | | | 242A25800X | 241A25900X |
| 62 | | | | | | 242A25810X | 241A25910X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 242A25820X | 241A25920X |
| 26 | | | | | | 242A25830X | 241A25930X |
| 44 | | | | | | 242A25840X | 241A25940X |
| 62 | | | | | | 242A25850X | 241A25950X |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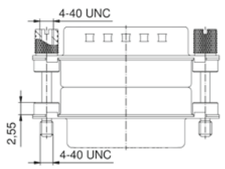
## Filter D-SUB Connectors
### C-Filter Full Metal Adapter

**Socket connector - Plug connector**
**Precision machined contacts**

4-40 UNC jack screw



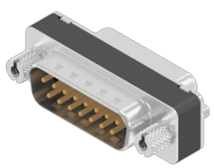

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 jack screw*

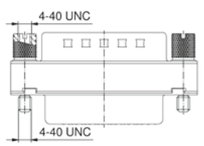
| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 243A12200X |
| 15 | | | | | | 243A12210X |
| 25 | | | | | | 243A12220X |
| 37 | | | | | | 243A12230X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 243A12240X |
| 15 | | | | | | 243A12250X |
| 25 | | | | | | 243A12260X |
| 37 | | | | | | 243A12270X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 243A12280X |
| 15 | | | | | | 243A12290X |
| 25 | | | | | | 243A12300X |
| 37 | | | | | | 243A12310X |

## Filter D-SUB Connectors
### C-Filter Adapter

**Socket connector - Plug connector, low profile**
**Precision machined contacts**

4-40 UNC jack screw






*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 jack screw*

| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 243A10010X |
| 15 | | | | | | 243A10020X |
| 25 | | | | | | 243A10030X |
| 37 | | | | | | 243A10040X |
| 50 | | | | | | 243A10130X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 243A10090X |
| 15 | | | | | | 243A10100X |
| 25 | | | | | | 243A10110X |
| 37 | | | | | | 243A10120X |
| 50 | | | | | | 243A10150X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 243A10050X |
| 15 | | | | | | 243A10060X |
| 25 | | | | | | 243A10070X |
| 37 | | | | | | 243A10080X |
| 50 | | | | | | 243A10140X |



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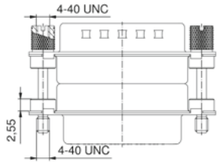
## Filter D-SUB Connectors
### π-Filter Full Metal Adapter

**Socket connector - Plug connector**
**Precision machined contacts**

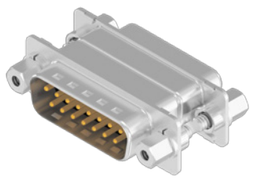
*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 jack screw*
- *M3 hex bolt*

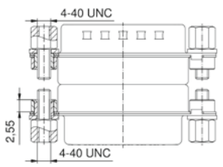
**4-40 UNC jack screw**




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 370 | MAP1XAAAR02R741X |
| 15 | | | | | | MAP2XAAAR02R741X |
| 25 | | | | | | MAP3XAAAR02R741X |
| 37 | | | | | | MAP4XAAAR02R741X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 830 | MAP1XAAAR02R162X |
| 15 | | | | | | MAP2XAAAR02R162X |
| 25 | | | | | | MAP3XAAAR02R162X |
| 37 | | | | | | MAP4XAAAR02R162X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 1300 | MAP1XAAAR02R262X |
| 15 | | | | | | MAP2XAAAR02R262X |
| 25 | | | | | | MAP3XAAAR02R262X |
| 37 | | | | | | MAP4XAAAR02R262X |

**4-40 UNC hex bolt**





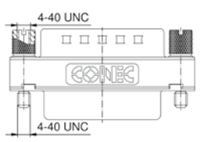

| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 370 | MAP1XAAAH02R741X |
| 15 | | | | | | MAP2XAAAH02R741X |
| 25 | | | | | | MAP3XAAAH02R741X |
| 37 | | | | | | MAP4XAAAH02R741X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 830 | MAP1XAAAH02R162X |
| 15 | | | | | | MAP2XAAAH02R162X |
| 25 | | | | | | MAP3XAAAH02R162X |
| 37 | | | | | | MAP4XAAAH02R162X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 2x 1300 | MAP1XAAAH02R262X |
| 15 | | | | | | MAP2XAAAH02R262X |
| 25 | | | | | | MAP3XAAAH02R262X |
| 37 | | | | | | MAP4XAAAH02R262X |

## Filter D-SUB Connectors
### C-Filter Adapter High Density

**Socket connector - Plug connector, low profile**
**Precision machined contacts**

*Shell: Steel tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 jack screw*

**4-40 UNC jack screw**




| No. of poles | Current rating [A] | Working voltage [V DC] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 243A11640X |
| 26 | | | | | | 243A11650X |
| 44 | | | | | | 243A11660X |
| 62 | | | | | | 243A11670X |
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 243A11680X |
| 26 | | | | | | 243A11690X |
| 44 | | | | | | 243A11700X |
| 62 | | | | | | 243A11710X |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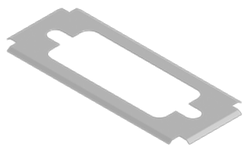
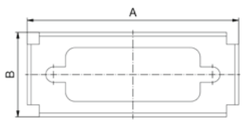
## EMI/RFI shielding frames

- *Material: Stainless steel*
- *For improved ground contact*
- *Suitable for assembly to the mating side*






| *Shell size* | *No. of poles Standard* | *No. of poles High Density* | *Measure A [mm]* | *Measure B [mm]* | *Part No.* |
|---|---|---|---|---|---|
| 1 | 09 | 15 | 35.8 | 17.5 | 160X10839X |
| 2 | 15 | 26 | 44.2 | 17.5 | 160X10849X |
| 3 | 25 | 44 | 57.9 | 17.5 | 160X10859X |
| 4 | 37 | 62 | 74.4 | 17.5 | 160X10869X |
| 5 | 50 | 78 | 72.1 | 20.3 | 160X10879X |



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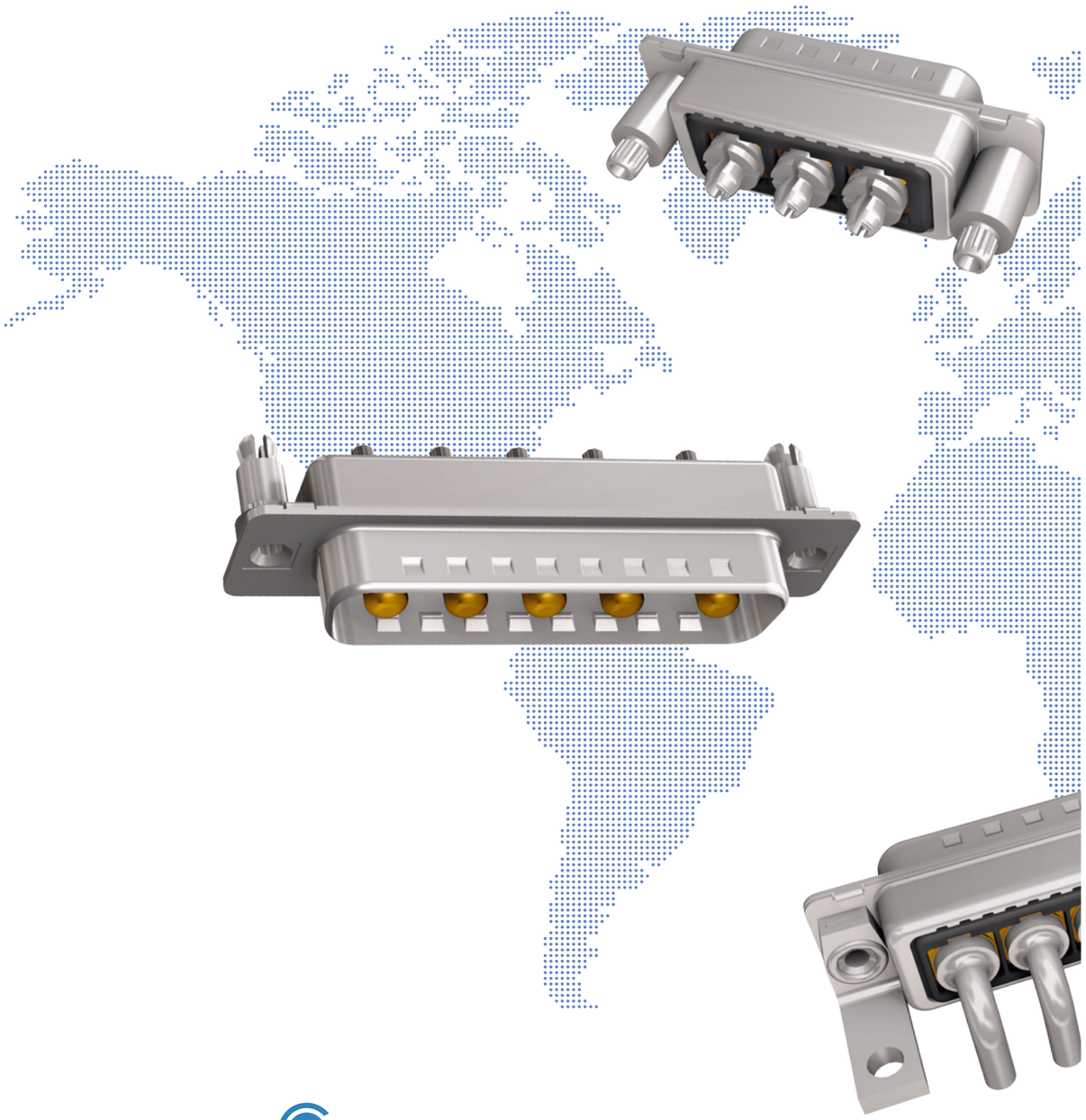
Section 4

# Filter Combination D-SUB Connectors



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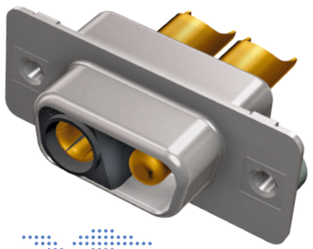

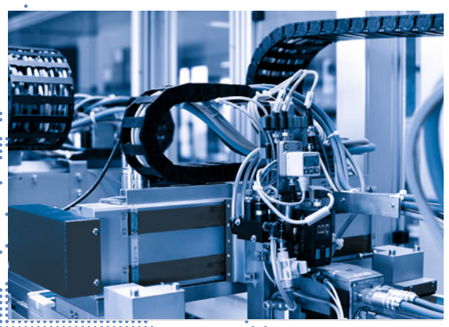

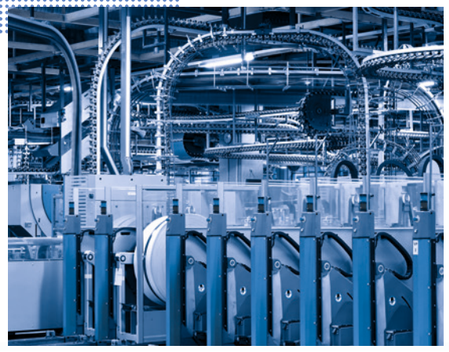

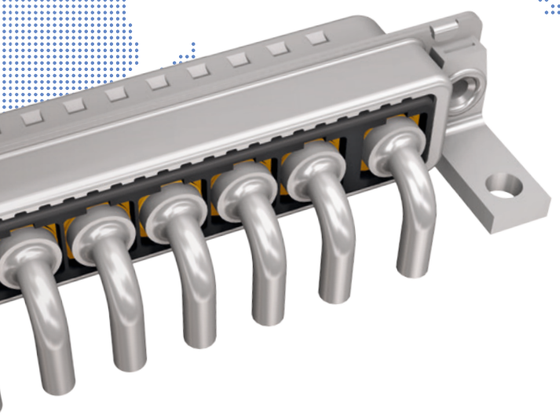



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# Filter Combination D-SUB Connectors

## Part Number Creator

**3 F 3 S P A 0 8 S 4 1 A 1 0 X**

**Shell size and design**
1 = 2F2C (2W2C)* = Coded
2 = 3F3S (3W3S)* = Standard
2 = 3F3C (3W3C)* = Coded
3 = 5F5S (5W5S)* = Standard
4 = 8F8S (8W8S)* = Standard
*F = filtered

**Contact type**
P = Plug connector
S = Socket connector

**Plaiting code / Quality class for contacts**
A = Quality class 3 = 50 mating cycles
C = Quality class 1 = 500 mating cycles* *on request

**Capacitance**

| | | | |
|---|---|---|---|
| 05 | = 1.3 nF | 14 | = 12 nF |
| 08 | = 5.0 nF | 22 | = 47 nF |
| 12 | = 10 nF | 28 | = 100 nF |

**Dielectic with standing voltage**
S = 707 VDC standard DWV
H = 1020 VDC high DWV
U = 1500 VDC ultra high DWV

**Termination for high current contacts**
41 = Solder cup 10 A
42 = Solder cup 20 A
43 = Solder cup 30 A
44 = Solder cup 40 A
45 = Solder cup 50 A
46 = Solder cup 65 A*
48 = Solder pin, straight 20 A, D= .077" / 1.95 mm
49 = Solder pin, straight 20 A, D= .102" / 2.60 mm
50 = Solder pin, straight 20 A, D= .112" / 2.85 mm
51 = Solder pin, straight 30 A, D= .125" / 3.18 mm
52 = Solder pin, straight 40 A, D= .148" / 3.75 mm
53 = Solder pin, straight 50 A, D= .148" / 3.75 mm
56 = Solder pin, angled 20 A
57 = Solder pin, angled 30 A
58 = Solder pin, angled 40 A
P1 = Press fit 30 A
P2= Press fit 30 A
P4= Press fit 30 A
*3W3: Pos. A1 + A3; 5W5: Pos. A1 + A3 + A5

**Mounting style**
A1 = Riveted
A3 = 4-40 UNC threaded insert
A5 = 4-40 UNC threaded rear spacer
AA = Threaded rear spacer with 4-40 UNC press fit
C2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" / 1.60 mm
C4 = 4-40 UNC threaded rear spacer with PCB clip, PCB .091" / 2.30 mm
C6 = 4-40 UNC threaded rear spacer with PCB clip, PCB .126" / 3.20 mm
D2 = 4-40 UNC front/threaded rear spacer with PCB clip, PCB .063" / 1.60 mm
D4 = 4-40 UNC front/threaded rear spacer with PCB clip .091" / 2.30 mm
D6 = 4-40 UNC front/threaded rear spacer with PCB clip, PCB .126" / 3.20 mm
E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" / 1.60 mm
E4 = 4-40 UNC threaded rear spacer with PCB clip, PCB .091" / 2.30 mm
E6 = 4-40 UNC threaded rear spacer with PCB clip, PCB .126" / 3.20 mm
F2 = 4-40 UNC front/threaded rear spacer with PCB clip, PCB .063" / 1.60 mm
F4 = 4-40 UNC front/threaded rear spacer with PCB clip, PCB .091" / 2.30 mm
F6 = 4-40 UNC front/threaded rear spacer with PCB clip, PCB .126" / 3.20 mm
K2 = Metal bracket, 4-40 UNC threaded insert
K4 = Metal bracket, 4-40 UNC threaded insert / PCB clip
L2 = Metal bracket, 4-40 UNC threaded lock
L4 = Metal bracket, 4-40 UNC threaded lock / PCB clip
W4 = Press-fit spacer with 4-40 UNC push in pin

0X = Standard


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## Product specification

| Basic Material | Variations<br>2W2C – 3W3C – 3W3 – 5W5 – 8W8 |
|---|---|
| Contacts | CU alloy |
| Contact plating | Mating area gold plated over nickel / termination area tin or gold plated |
| Insulator | PBT GF UL 94 V-0 |
| Shell | Steel tin plated |

| Technical Data | |
|---|---|
| Dielectric with standing voltage | Standard DWV 707 VDC<br>High DWV 1020 VDC<br>Ultra High DWV 1500 VDC |
| Working voltage | 100 VDC<br>Depending on isolation coordination refer to DIN VDE 0110/IEC 664-1 |
| Current rating | up to 65 A (20 °C) |
| Contact resistance | Max. 2 mΩ prior to stressing, ΔR max. 2 mΩ after stressing<br>refer to IEC 60807-2 |
| Insulation resistance | ≥1 GΩ |
| Capacitor values<br>For other capacitance values please contact the factory. | 1.3 nF ± 20 % tolerance 12 nF ± 20 % tolerance<br>5 nF ± 20 % tolerance 47 nF ± 20 % tolerance<br>10 nF ± 20 % tolerance 100 nF ± 20 % tolerance<br>other capacitor values on request |
| Operating temperature | -55 °C to + 125 °C |
| Humidity | 40 °C / 85 % relative humidity / RH |
| Insertion force per contact | 7 N |
| Extraction force per contact | approx 5 N |
| Quality class | A = Quality class 3 = 50 mating cycles<br>C = Quality class 1 = 500 mating cycles |

| Solder parameter | Preheating | | Solder terminal dipping parameters | |
|---|---|---|---|---|
| | max. Tempertature | Duration | max. solder bath Temperature | max. Terminal Immersion Time |
| Recommended wave-solder parameters | 120 °C | 120 s | 260 °C | 5 s |

Technical specifications are subject to change without notice.



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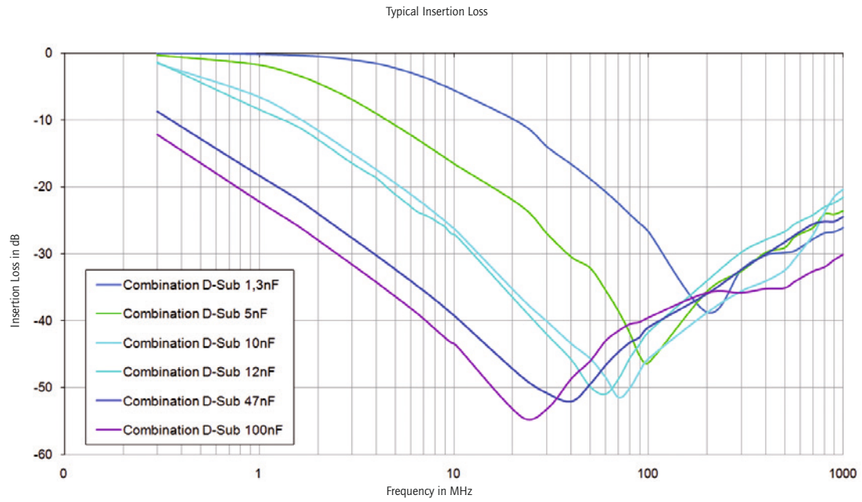
# Filter Combination D-SUB Connectors

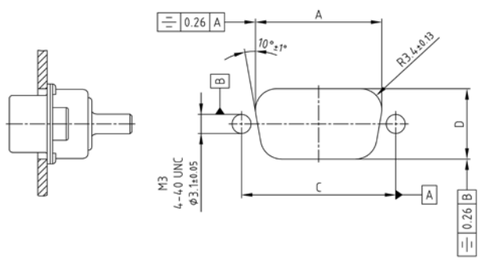
## Insertion loss

### C-Filter

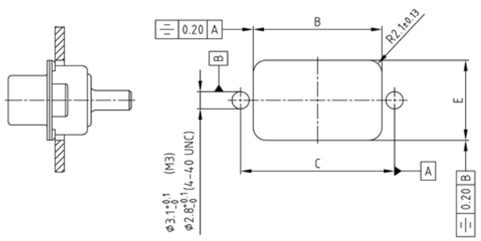



## Panel cut-out

### Back panel mounting




### Front panel mounting




| Shell size | Layout | A ± 0.1 | B ± 0.1 | C ± 0.1 | D ± 0.1 | E ± 0.1 |
|---|---|---|---|---|---|---|
| 1 | 2W2C | 20.50 | 20.90 | 25.00 | 11.40 | 13.00 |
| 2 | 3W3S, 3W3C | 28.80 | 29.20 | 33.30 | 11.40 | 13.00 |
| 3 | 5W5S | 42.50 | 42.90 | 47.04 | 11.40 | 13.00 |
| 4 | 8W8S | 59.10 | 59.40 | 63.50 | 11.40 | 13.00 |

Technical specifications are subject to change without notice.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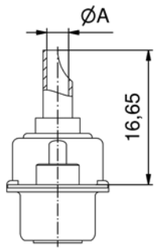
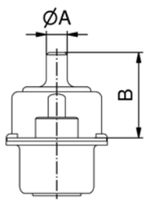
## Termination code high power contacts

### Solder cup



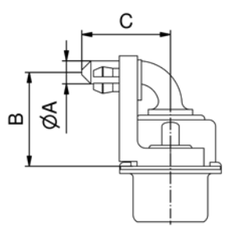

| Termination Code | Current rating | AWG | Ø A [mm] |
|---|---|---|---|
| 41 | 10 A | 16-20 | 1.80 |
| 42 | 20 A | 12-14 | 2.70 |
| 43 | 30 A | 10-12 | 3.50 |
| 44 | 40 A | 8-10 | 4.80 |

### Solder pin straight



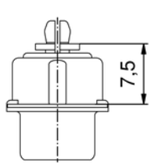

| Termination Code | Current rating | Ø A [mm] | B ± 0.3 [mm] | PCB thickness [mm] | Hole diameter in PCB [mm] |
|---|---|---|---|---|---|
| 48 | 20 A | 1.95 | 9.65 | 1.6 | 2.30 ± 0.1 |
| 49 | 20 A | 2.60 | 10.65 | 1.6 | 3.00 ± 0.1 |
| 50 | 20 A | 2.85 | 10.05 | 1.6 | 3.20 ± 0.1 |
| 51 | 30 A | 3.18 | 12.85 | 1.6/2.3/3.2 | 3.60 ± 0.1 |
| 52 | 40 A | 3.75 | 11.10 | 1.6/2.3/3.2 | 4.10 ± 0.1 |

### Solder pin angled

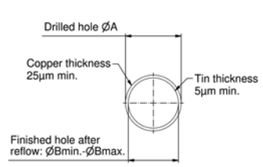



| Termination Code | Current rating | Ø A [mm] | B ± 0.3 [mm] | C ± 0.3 [mm] | Hole diameter in PCB [mm] |
|---|---|---|---|---|---|
| 56 | 20 A | 2.85 | 11.65 | 11.00 | 3.20 ± 0.1 |
| 57 | 30 A | 3.18 | 20.35 | 9.50 | 3.60 ± 0.1 |
| 58 | 40 A | 3.75 | 11.65 | 11.00 | 4.10 ± 0.1 |

### Press-fit contact




| Termination Code | Current rating | Ø A ± 0.03 [mm] | Ø B min. [mm] | Ø B max. [mm] |
|---|---|---|---|---|
| P1 | 30 A | 3.13 | 2.96 | 3.11 |
| P2 | 30 A | 3.27 | 3.10 | 3.25 |
| P4 | 30 A | 3.22 | 3.02 | 3.20 |




Technical specifications are subject to change without notice.



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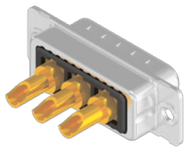
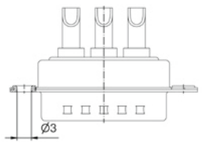
# Filter Combination D-SUB Connectors
## C-Filter

### Solder cup
### Precision machined contacts, AWG 8-20

*Shell: Steel tin plated*
*Quality class: 3 (A) = 50 mating cyles*
*On request:*
- *higher DWV*
- *Quality class: 1 (C) = 500 mating cycles*
- *M3 thread*

#### Through-hole Ø 3 mm



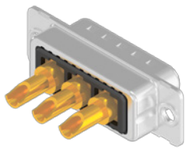


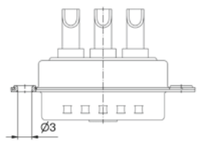

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| No. of poles | Current rating [A] | Working voltage [VDC] | AWG | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 10 | 100 | 16-20 | 47 | E228329 | 3 | 3F3SSA22S41A10X | 3F3SPA22S41A10X |
| | 20 | | 12-14 | | | | 3F3SSA22S42A10X | 3F3SPA22S42A10X |
| | 30 | | 10-12 | | | | 3F3SSA22S43A10X | 3F3SPA22S43A10X |
| | 40 | | 8-10 | | | | 3F3SSA22S44A10X | 3F3SPA22S44A10X |
| 5W5 | 10 | 100 | 16-20 | 47 | E228329 | 3 | 5F5SSA22S41A10X | 5F5SPA22S41A10X |
| | 20 | | 12-14 | | | | 5F5SSA22S42A10X | 5F5SPA22S42A10X |
| | 30 | | 10-12 | | | | 5F5SSA22S43A10X | 5F5SPA22S43A10X |
| | 40 | | 8-10 | | | | 5F5SSA22S44A10X | 5F5SPA22S44A10X |
| 8W8 | 10 | 100 | 16-20 | 47 | E228329 | 3 | 8F8SSA22S41A10X | 8F8SPA22S41A10X |
| | 20 | | 12-14 | | | | 8F8SSA22S42A10X | 8F8SPA22S42A10X |
| | 30 | | 10-12 | | | | 8F8SSA22S43A10X | 8F8SPA22S43A10X |
| | 40 | | 8-10 | | | | 8F8SSA22S44A10X | 8F8SPA22S44A10X |

#### Through-hole Ø 3 mm, coded version



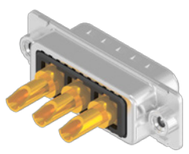


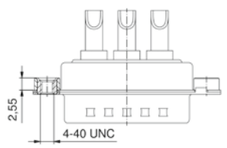

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| No. of poles | Current rating [A] | Working voltage [VDC] | AWG | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 10 | 100 | 16-20 | 47 | E228329 | 3 | 2F2CSA22S41A10X | 2F2CPA22S41A10X |
| | 20 | | 12-14 | | | | 2F2CSA22S42A10X | 2F2CPA22S42A10X |
| | 30 | | 10-12 | | | | 2F2CSA22S43A10X | 2F2CPA22S43A10X |
| | 40 | | 8-10 | | | | 2F2CSA22S44A10X | 2F2CPA22S44A10X |
| 3W3C | 10 | 100 | 16-20 | 47 | E228329 | 3 | 3F3CSA22S41A10X | 3F3CPA22S41A10X |
| | 20 | | 12-14 | | | | 3F3CSA22S42A10X | 3F3CPA22S42A10X |
| | 30 | | 10-12 | | | | 3F3CSA22S43A10X | 3F3CPA22S43A10X |
| | 40 | | 8-10 | | | | 3F3CSA22S44A10X | 3F3CPA22S44A10X |

#### 4-40 UNC threaded insert






For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| No. of poles | Current rating [A] | Working voltage [VDC] | AWG | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 10 | 100 | 16-20 | 47 | E228329 | 3 | 3F3SSA22S41A30X | 3F3SPA22S41A30X |
| | 20 | | 12-14 | | | | 3F3SSA22S42A30X | 3F3SPA22S42A30X |
| | 30 | | 10-12 | | | | 3F3SSA22S43A30X | 3F3SPA22S43A30X |
| | 40 | | 8-10 | | | | 3F3SSA22S44A30X | 3F3SPA22S44A30X |
| 5W5 | 10 | 100 | 16-20 | 47 | E228329 | 3 | 5F5SSA22S41A30X | 5F5SPA22S41A30X |
| | 20 | | 12-14 | | | | 5F5SSA22S42A30X | 5F5SPA22S42A30X |
| | 30 | | 10-12 | | | | 5F5SSA22S43A30X | 5F5SPA22S43A30X |
| | 40 | | 8-10 | | | | 5F5SSA22S44A30X | 5F5SPA22S44A30X |
| 8W8 | 10 | 100 | 16-20 | 47 | E228329 | 3 | 8F8SSA22S41A30X | 8F8SPA22S41A30X |
| | 20 | | 12-14 | | | | 8F8SSA22S42A30X | 8F8SPA22S42A30X |
| | 30 | | 10-12 | | | | 8F8SSA22S43A30X | 8F8SPA22S43A30X |
| | 40 | | 8-10 | | | | 8F8SSA22S44A30X | 8F8SPA22S44A30X |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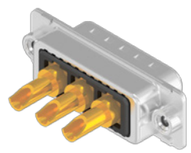
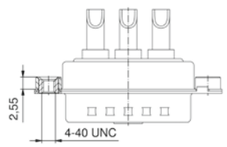
# Filter Combination D-SUB Connectors
## C-Filter

### Solder cup
### Precision machined contacts, AWG 8-20

4-40 UNC threaded insert, coded version






*Shell: Steel tin plated*
*Quality class: 3 (A) = 50 mating cyles*
*On request:*
- *higher DWV*
- *Quality class: 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating [A] | Working voltage [VDC] | AWG | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 10 | 100 | 16-20 | 47 | E228329 | 3 | 2F2CSA22S41A30X | 2F2CPA22S41A30X |
| | 20 | | 12-14 | | | | 2F2CSA22S42A30X | 2F2CPA22S42A30X |
| | 30 | | 10-12 | | | | 2F2CSA22S43A30X | 2F2CPA22S43A30X |
| | 40 | | 8-10 | | | | 2F2CSA22S44A30X | 2F2CPA22S44A30X |
| 3W3C | 10 | 100 | 16-20 | 47 | E228329 | 3 | 3F3CSA22S41A30X | 3F3CPA22S41A30X |
| | 20 | | 12-14 | | | | 3F3CSA22S42A30X | 3F3CPA22S42A30X |
| | 30 | | 10-12 | | | | 3F3CSA22S43A30X | 3F3CPA22S43A30X |
| | 40 | | 8-10 | | | | 3F3CSA22S44A30X | 3F3CPA22S44A30X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |



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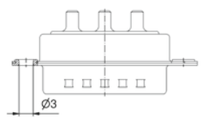
# Filter Combination D-SUB Connectors
## C-Filter

### Solder pin straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class: 3 (A) = 50 mating cyles*
*On request:*
- *higher DWV*
- *Quality class: 1 (C) = 500 mating cycles*
- *M3 thread*

**Through-hole Ø 3 mm**

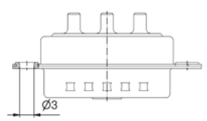



| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 3F3SSA22S48A10X | 3F3SPA22S48A10X |
| | | | 2.60 | | | | 3F3SSA22S49A10X | 3F3SPA22S49A10X |
| | | | 2.85 | | | | 3F3SSA22S50A10X | 3F3SPA22S50A10X |
| | 30 | | 3.18 | | | | 3F3SSA22S51A10X | 3F3SPA22S51A10X |
| | 40 | | 3.75 | | | | 3F3SSA22S52A10X | 3F3SPA22S52A10X |
| 5W5 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 5F5SSA22S48A10X | 5F5SPA22S48A10X |
| | | | 2.60 | | | | 5F5SSA22S49A10X | 5F5SPA22S49A10X |
| | | | 2.85 | | | | 5F5SSA22S50A10X | 5F5SPA22S50A10X |
| | 30 | | 3.18 | | | | 5F5SSA22S51A10X | 5F5SPA22S51A10X |
| | 40 | | 3.75 | | | | 5F5SSA22S52A10X | 5F5SPA22S52A10X |
| 8W8 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 8F8SSA22S48A10X | 8F8SPA22S48A10X |
| | | | 2.60 | | | | 8F8SSA22S49A10X | 8F8SPA22S49A10X |
| | | | 2.85 | | | | 8F8SSA22S50A10X | 8F8SPA22S50A10X |
| | 30 | | 3.18 | | | | 8F8SSA22S51A10X | 8F8SPA22S51A10X |
| | 40 | | 3.75 | | | | 8F8SSA22S52A10X | 8F8SPA22S52A10X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

**Through-hole Ø 3 mm, coded version**




| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 20 | 100 | 1.95 | 47 | E228329 | 3 | 2F2CSA22S48A10X | 2F2CPA22S48A10X |
| | | | 2.60 | | | | 2F2CSA22S49A10X | 2F2CPA22S49A10X |
| | | | 2.85 | | | | 2F2CSA22S50A10X | 2F2CPA22S50A10X |
| | 30 | | 3.18 | | | | 2F2CSA22S51A10X | 2F2CPA22S51A10X |
| | 40 | | 3.75 | | | | 2F2CSA22S52A10X | 2F2CPA22S52A10X |
| 3W3C | 20 | 100 | 1.95 | 47 | E228329 | 3 | 3F3CSA22S48A10X | 3F3CPA22S48A10X |
| | | | 2.60 | | | | 3F3CSA22S49A10X | 3F3CPA22S49A10X |
| | | | 2.85 | | | | 3F3CSA22S50A10X | 3F3CPA22S50A10X |
| | 30 | | 3.18 | | | | 3F3CSA22S51A10X | 3F3CPA22S51A10X |
| | 40 | | 3.75 | | | | 3F3CSA22S52A10X | 3F3CPA22S52A10X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |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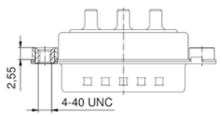
# Filter Combination D-SUB Connectors
## C-Filter

### Solder pin straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class: 3 (A) = 50 mating cyles*
*On request:*
- *higher DWV*
- *Quality class: 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

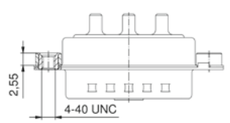



| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 3F3SSA22S48A30X | 3F3SPA22S48A30X |
| | | | 2.60 | | | | 3F3SSA22S49A30X | 3F3SPA22S49A30X |
| | | | 2.85 | | | | 3F3SSA22S50A30X | 3F3SPA22S50A30X |
| | 30 | | 3.18 | | | | 3F3SSA22S51A30X | 3F3SPA22S51A30X |
| | 40 | | 3.75 | | | | 3F3SSA22S52A30X | 3F3SPA22S52A30X |
| 5W5 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 5F5SSA22S48A30X | 5F5SPA22S48A30X |
| | | | 2.60 | | | | 5F5SSA22S49A30X | 5F5SPA22S49A30X |
| | | | 2.85 | | | | 5F5SSA22S50A30X | 5F5SPA22S50A30X |
| | 30 | | 3.18 | | | | 5F5SSA22S51A30X | 5F5SPA22S51A30X |
| | 40 | | 3.75 | | | | 5F5SSA22S52A30X | 5F5SPA22S52A30X |
| 8W8 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 8F8SSA22S48A30X | 8F8SPA22S48A30X |
| | | | 2.60 | | | | 8F8SSA22S49A30X | 8F8SPA22S49A30X |
| | | | 2.85 | | | | 8F8SSA22S50A30X | 8F8SPA22S50A30X |
| | 30 | | 3.18 | | | | 8F8SSA22S51A30X | 8F8SPA22S51A30X |
| | 40 | | 3.75 | | | | 8F8SSA22S52A30X | 8F8SPA22S52A30X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

**4-40 UNC threaded insert, coded version**




| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 20 | 100 | 1.95 | 47 | E228329 | 3 | 2F2CSA22S48A30X | 2F2CPA22S48A30X |
| | | | 2.60 | | | | 2F2CSA22S49A30X | 2F2CPA22S49A30X |
| | | | 2.85 | | | | 2F2CSA22S50A30X | 2F2CPA22S50A30X |
| | 30 | | 3.18 | | | | 2F2CSA22S51A30X | 2F2CPA22S51A30X |
| | 40 | | 3.75 | | | | 2F2CSA22S52A30X | 2F2CPA22S52A30X |
| 3W3C | 20 | 100 | 1.95 | 47 | E228329 | 3 | 3F3CSA22S48A30X | 3F3CPA22S48A30X |
| | | | 2.60 | | | | 3F3CSA22S49A30X | 3F3CPA22S49A30X |
| | | | 2.85 | | | | 3F3CSA22S50A30X | 3F3CPA22S50A30X |
| | 30 | | 3.18 | | | | 3F3CSA22S51A30X | 3F3CPA22S51A30X |
| | 40 | | 3.75 | | | | 3F3CSA22S52A30X | 3F3CPA22S52A30X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |



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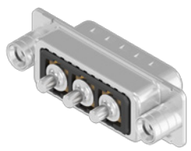
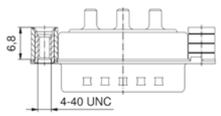
# Filter Combination D-SUB Connectors
## C-Filter

### Solder pin straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class: 3 (A) = 50 mating cyles*
*On request:*
- *higher DWV*
- *Quality class: 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded rear spacer



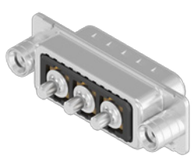


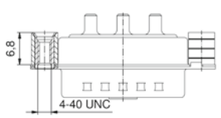

| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 3F3SSA22S48A50X | 3F3SPA22S48A50X |
| | | | 2.60 | | | | 3F3SSA22S49A50X | 3F3SPA22S49A50X |
| | | | 2.85 | | | | 3F3SSA22S50A50X | 3F3SPA22S50A50X |
| | 30 | | 3.18 | | | | 3F3SSA22S51A50X | 3F3SPA22S51A50X |
| | 40 | | 3.75 | | | | 3F3SSA22S52A50X | 3F3SPA22S52A50X |
| 5W5 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 5F5SSA22S48A50X | 5F5SPA22S48A50X |
| | | | 2.60 | | | | 5F5SSA22S49A50X | 5F5SPA22S49A50X |
| | | | 2.85 | | | | 5F5SSA22S50A50X | 5F5SPA22S50A50X |
| | 30 | | 3.18 | | | | 5F5SSA22S51A50X | 5F5SPA22S51A50X |
| | 40 | | 3.75 | | | | 5F5SSA22S52A50X | 5F5SPA22S52A50X |
| 8W8 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 8F8SSA22S48A50X | 8F8SPA22S48A50X |
| | | | 2.60 | | | | 8F8SSA22S49A50X | 8F8SPA22S49A50X |
| | | | 2.85 | | | | 8F8SSA22S50A50X | 8F8SPA22S50A50X |
| | 30 | | 3.18 | | | | 8F8SSA22S51A50X | 8F8SPA22S51A50X |
| | 40 | | 3.75 | | | | 8F8SSA22S52A50X | 8F8SPA22S52A50X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

#### 4-40 UNC threaded rear spacer, coded version






| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 20 | 100 | 1.95 | 47 | E228329 | 3 | 2F2CSA22S48A50X | 2F2CPA22S48A50X |
| | | | 2.60 | | | | 2F2CSA22S49A50X | 2F2CPA22S49A50X |
| | | | 2.85 | | | | 2F2CSA22S50A50X | 2F2CPA22S50A50X |
| | 30 | | 3.18 | | | | 2F2CSA22S51A50X | 2F2CPA22S51A50X |
| | 40 | | 3.75 | | | | 2F2CSA22S52A50X | 2F2CPA22S52A50X |
| 3W3C | 20 | 100 | 1.95 | 47 | E228329 | 3 | 3F3CSA22S48A50X | 3F3CPA22S48A50X |
| | | | 2.60 | | | | 3F3CSA22S49A50X | 3F3CPA22S49A50X |
| | | | 2.85 | | | | 3F3CSA22S50A50X | 3F3CPA22S50A50X |
| | 30 | | 3.18 | | | | 3F3CSA22S51A50X | 3F3CPA22S51A50X |
| | 40 | | 3.75 | | | | 3F3CSA22S52A50X | 3F3CPA22S52A50X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |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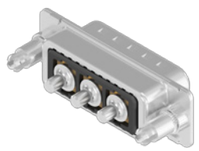
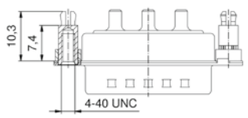
# Filter Combination D-SUB Connectors
## C-Filter

### Solder pin straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class: 3 (A) = 50 mating cyles*
*On request:*
- *higher DWV*
- *Quality class: 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**



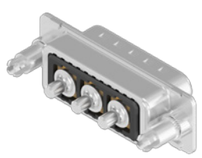


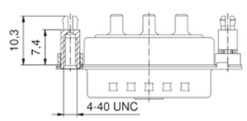

| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 3F3SSA22S48E20X | 3F3SPA22S48E20X |
| | | | 2.60 | | | | 3F3SSA22S49E20X | 3F3SPA22S49E20X |
| | | | 2.85 | | | | 3F3SSA22S50E20X | 3F3SPA22S50E20X |
| | 30 | | 3.18 | | | | 3F3SSA22S51E20X | 3F3SPA22S51E20X |
| | 40 | | 3.75 | | | | 3F3SSA22S52E20X | 3F3SPA22S52E20X |
| 5W5 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 5F5SSA22S48E20X | 5F5SPA22S48E20X |
| | | | 2.60 | | | | 5F5SSA22S49E20X | 5F5SPA22S49E20X |
| | | | 2.85 | | | | 5F5SSA22S50E20X | 5F5SPA22S50E20X |
| | 30 | | 3.18 | | | | 5F5SSA22S51E20X | 5F5SPA22S51E20X |
| | 40 | | 3.75 | | | | 5F5SSA22S52E20X | 5F5SPA22S52E20X |
| 8W8 | 20 | 100 | 1.95 | 47 | E228329 | 3 | 8F8SSA22S48E20X | 8F8SPA22S48E20X |
| | | | 2.60 | | | | 8F8SSA22S49E20X | 8F8SPA22S49E20X |
| | | | 2.85 | | | | 8F8SSA22S50E20X | 8F8SPA22S50E20X |
| | 30 | | 3.18 | | | | 8F8SSA22S51E20X | 8F8SPA22S51E20X |
| | 40 | | 3.75 | | | | 8F8SSA22S52E20X | 8F8SPA22S52E20X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

**4-40 UNC threaded rear spacer clip for PCB 1.6 mm, coded version**



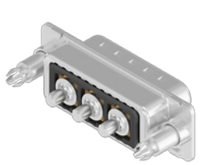


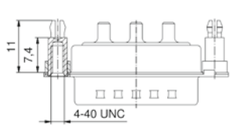

| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 20 | 100 | 1.95 | 47 | E228329 | 3 | 2F2CSA22S48E20X | 2F2CPA22S48E20X |
| | | | 2.60 | | | | 2F2CSA22S49E20X | 2F2CPA22S49E20X |
| | | | 2.85 | | | | 2F2CSA22S50E20X | 2F2CPA22S50E20X |
| | 30 | | 3.18 | | | | 2F2CSA22S51E20X | 2F2CPA22S51E20X |
| | 40 | | 3.75 | | | | 2F2CSA22S52E20X | 2F2CPA22S52E20X |
| 3W3C | 20 | 100 | 1.95 | 47 | E228329 | 3 | 3F3CSA22S48E20X | 3F3CPA22S48E20X |
| | | | 2.60 | | | | 3F3CSA22S49E20X | 3F3CPA22S49E20X |
| | | | 2.85 | | | | 3F3CSA22S50E20X | 3F3CPA22S50E20X |
| | 30 | | 3.18 | | | | 3F3CSA22S51E20X | 3F3CPA22S51E20X |
| | 40 | | 3.75 | | | | 3F3CSA22S52E20X | 3F3CPA22S52E20X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

**4-40 UNC threaded rear spacer clip for PCB 2.3 mm**






| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 30 | 100 | 3.18 | 47 | E228329 | 3 | 3F3SSA22S51E40X | 3F3SPA22S51E40X |
| | 40 | | 3.75 | | | | 3F3SSA22S52E40X | 3F3SPA22S52E40X |
| 5W5 | 30 | 100 | 3.18 | 47 | E228329 | 3 | 5F5SSA22S51E40X | 5F5SPA22S51E40X |
| | 40 | | 3.75 | | | | 5F5SSA22S52E40X | 5F5SPA22S52E40X |
| 8W8 | 30 | 100 | 3.18 | 47 | E228329 | 3 | 8F8SSA22S51E40X | 8F8SPA22S51E40X |
| | 40 | | 3.75 | | | | 8F8SSA22S52E40X | 8F8SPA22S52E40X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |



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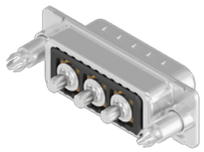
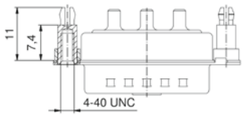
# Filter Combination D-SUB Connectors
## C-Filter

### Solder pin straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class: 3 (A) = 50 mating cyles*
*On request:*
- *higher DWV*
- *Quality class: 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded rear spacer clip for PCB 2.3 mm, coded version



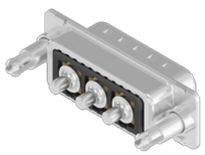


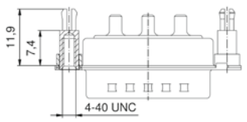

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 30 | 100 | 3.18 | 47 | E228329 | 3 | 2F2CSA22S51E40X | 2F2CPA22S51E40X |
| | 40 | | 3.75 | | | | 2F2CSA22S52E40X | 2F2CPA22S52E40X |
| 3W3C | 30 | 100 | 3.18 | 47 | E228329 | 3 | 3F3CSA22S51E40X | 3F3CPA22S51E40X |
| | 40 | | 3.75 | | | | 3F3CSA22S52E40X | 3F3CPA22S52E40X |

#### 4-40 UNC threaded rear spacer clip for PCB 3.2 mm



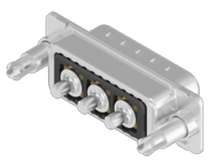


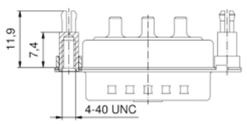

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 30 | 100 | 3.18 | 47 | E228329 | 3 | 3F3SSA22S51E60X | 3F3SPA22S51E60X |
| | 40 | | 3.75 | | | | 3F3SSA22S52E60X | 3F3SPA22S52E60X |
| 5W5 | 30 | 100 | 3.18 | 47 | E228329 | 3 | 5F5SSA22S51E60X | 5F5SPA22S51E60X |
| | 40 | | 3.75 | | | | 5F5SSA22S52E60X | 5F5SPA22S52E60X |
| 8W8 | 30 | 100 | 3.18 | 47 | E228329 | 3 | 8F8SSA22S51E60X | 8F8SPA22S51E60X |
| | 40 | | 3.75 | | | | 8F8SSA22S52E60X | 8F8SPA22S52E60X |

#### 4-40 UNC threaded rear spacer clip for PCB 3.2 mm, coded version






For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 30 | 100 | 3.18 | 47 | E228329 | 3 | 2F2CSA22S51E60X | 2F2CPA22S51E60X |
| | 40 | | 3.75 | | | | 2F2CSA22S52E60X | 2F2CPA22S52E60X |
| 3W3C | 30 | 100 | 3.18 | 47 | E228329 | 3 | 3F3CSA22S51E60X | 3F3CPA22S51E60X |
| | 40 | | 3.75 | | | | 3F3CSA22S52E60X | 3F3CPA22S52E60X |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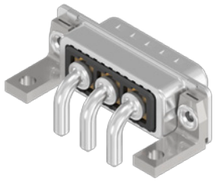
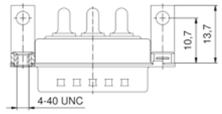
# Filter Combination D-SUB Connectors
## C-Filter

### Solder pin angled
### Precision machined contacts, metal bracket

*Shell: Steel tin plated*
*Quality class: 3 (A) = 50 mating cyles*
*On request:*
- *higher DWV*
- *Quality class: 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded insert



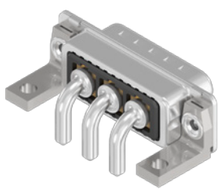


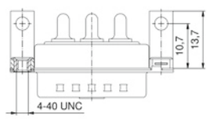

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 20 | 100 | 2.85 | 47 | E228329 | 3 | 3F3SSA22S56K20X | 3F3SPA22S56K20X |
| | 30 | | 3.20 | | | | 3F3SSA22S57K20X | 3F3SPA22S57K20X |
| | 40 | | 3.75 | | | | 3F3SSA22S58K20X | 3F3SPA22S58K20X |
| 5W5 | 20 | 100 | 2.85 | 47 | E228329 | 3 | 5F5SSA22S56K20X | 5F5SPA22S56K20X |
| | 30 | | 3.20 | | | | 5F5SSA22S57K20X | 5F5SPA22S57K20X |
| | 40 | | 3.75 | | | | 5F5SSA22S58K20X | 5F5SPA22S58K20X |
| 8W8 | 20 | 100 | 2.85 | 47 | E228329 | 3 | 8F8SSA22S56K20X | 8F8SPA22S56K20X |
| | 30 | | 3.20 | | | | 8F8SSA22S57K20X | 8F8SPA22S57K20X |
| | 40 | | 3.75 | | | | 8F8SSA22S58K20X | 8F8SPA22S58K20X |

#### 4-40 UNC threaded insert, coded version



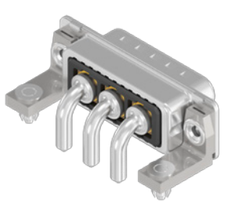


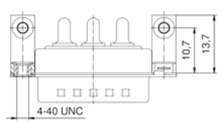

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 20 | 100 | 2.85 | 47 | E228329 | 3 | 2F2CSA22S56K20X | 2F2CPA22S56K20X |
| | 30 | | 3.20 | | | | 2F2CSA22S57K20X | 2F2CPA22S57K20X |
| | 40 | | 3.75 | | | | 2F2CSA22S58K20X | 2F2CPA22S58K20X |
| 3W3C | 20 | 100 | 2.85 | 47 | E228329 | 3 | 3F3CSA22S56K20X | 3F3CPA22S56K20X |
| | 30 | | 3.20 | | | | 3F3CSA22S57K20X | 3F3CPA22S57K20X |
| | 40 | | 3.75 | | | | 3F3CSA22S58K20X | 3F3CPA22S58K20X |

#### Clip for PCB 1.6 mm, 4-40 UNC threaded insert






For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 20 | 100 | 2.85 | 47 | E228329 | 3 | 3F3SSA22S56K40X | 3F3SPA22S56K40X |
| | 30 | | 3.20 | | | | 3F3SSA22S57K40X | 3F3SPA22S57K40X |
| | 40 | | 3.75 | | | | 3F3SSA22S58K40X | 3F3SPA22S58K40X |
| 5W5 | 20 | 100 | 2.85 | 47 | E228329 | 3 | 5F5SSA22S56K40X | 5F5SPA22S56K40X |
| | 30 | | 3.20 | | | | 5F5SSA22S57K40X | 5F5SPA22S57K40X |
| | 40 | | 3.75 | | | | 5F5SSA22S58K40X | 5F5SPA22S58K40X |
| 8W8 | 20 | 100 | 2.85 | 47 | E228329 | 3 | 8F8SSA22S56K40X | 8F8SPA22S56K40X |
| | 30 | | 3.20 | | | | 8F8SSA22S57K40X | 8F8SPA22S57K40X |
| | 40 | | 3.75 | | | | 8F8SSA22S58K40X | 8F8SPA22S58K40X |



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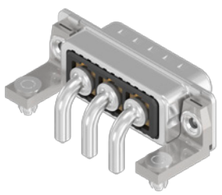
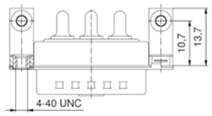
# Filter Combination D-SUB Connectors
## C-Filter

### Solder pin angled
### Precision machined contacts, metal bracket

Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded version

*Shell: Steel tin plated*
*Quality class: 3 (A) = 50 mating cyles*
*On request:*
- *higher DWV*
- *Quality class: 1 (C) = 500 mating cycles*
- *M3 thread*





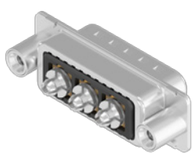

| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 20 | 100 | 2.85 | 47 | E228329 | 3 | 2F2CSA22S56K40X | 2F2CPA22S56K40X |
| | 30 | | 3.20 | | | | 2F2CSA22S57K40X | 2F2CPA22S57K40X |
| | 40 | | 3.75 | | | | 2F2CSA22S58K40X | 2F2CPA22S58K40X |
| 3W3C | 20 | 100 | 2.85 | 47 | E228329 | 3 | 3F3CSA22S56K40X | 3F3CPA22S56K40X |
| | 30 | | 3.20 | | | | 3F3CSA22S57K40X | 3F3CPA22S57K40X |
| | 40 | | 3.75 | | | | 3F3CSA22S58K40X | 3F3CPA22S58K40X |

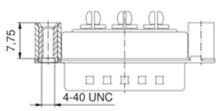
For other capacitance values refer to the part number creator.

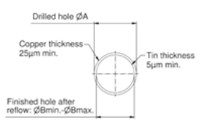
| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

### Press-fit contact straight
### Precision machined contacts

4-40 UNC threaded rear spacer






| No. of poles | Current rating [A] | Working voltage [VDC] | Outer Ø contact [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 30 | 100 | 3.11 | 47 | E228329 | 3 | 3F3SSA22SP1AA0X | 3F3SPA22SP1AA0X |
| | | | 3.25 | | | | 3F3SSA22SP2AA0X | 3F3SPA22SP2AA0X |
| | | | 3.20 | | | | 3F3SSA22SP4AA0X | 3F3SPA22SP4AA0X |
| 5W5 | 30 | 100 | 3.11 | 47 | E228329 | 3 | 5F5SSA22SP1AA0X | 5F5SPA22SP1AA0X |
| | | | 3.25 | | | | 5F5SSA22SP2AA0X | 5F5SPA22SP2AA0X |
| | | | 3.20 | | | | 5F5SSA22SP4AA0X | 5F5SPA22SP4AA0X |
| 8W8 | 30 | 100 | 3.11 | 47 | E228329 | 3 | 8F8SSA22SP1AA0X | 8F8SPA22SP1AA0X |
| | | | 3.25 | | | | 8F8SSA22SP2AA0X | 8F8SPA22SP2AA0X |
| | | | 3.20 | | | | 8F8SSA22SP4AA0X | 8F8SPA22SP4AA0X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| Termination Code | ø A | ø B min. | ø B max. |
|---|---|---|---|
| P1 | 3.13 | 2.96 | 3.11 |
| P2 | 3.27 | 3.10 | 3.25 |
| P4 | 3.22 | 3.02 | 3.20 |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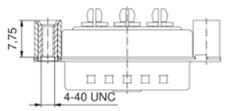
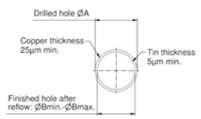
# Filter Combination D-SUB Connectors
## C-Filter

### Press-fit contact straight
### Precision machined contacts

*Shell: Steel tin plated*
*Quality class: 3 (A) = 50 mating cyles*
*On request:*
- *higher DWV*
- *Quality class: 1 (C) = 500 mating cycles*
- *M3 thread*

#### 4-40 UNC threaded rear spacer, coded version



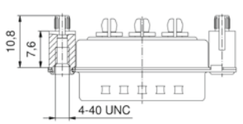

| No. of poles | Current rating [A] | Working voltage [VDC] | Hole diameter PCB [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 30 | 100 | 3.11 | 47 | E228329 | 3 | 2F2CSA22SP1AA0X | 2F2CPA22SP1AA0X |
| | | | 3.25 | | | | 2F2CSA22SP2AA0X | 2F2CPA22SP2AA0X |
| | | | 3.20 | | | | 2F2CSA22SP4AA0X | 2F2CPA22SP4AA0X |
| 3W3C | 30 | 100 | 3.11 | 47 | E228329 | 3 | 3F3CSA22SP1AA0X | 3F3CPA22SP1AA0X |
| | | | 3.25 | | | | 3F3CSA22SP2AA0X | 3F3CPA22SP2AA0X |
| | | | 3.20 | | | | 3F3CSA22SP4AA0X | 3F3CPA22SP4AA0X |

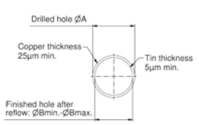
For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| Termination Code | ø A | ø B min. | ø B max. |
|---|---|---|---|
| P1 | 3.13 | 2.96 | 3.11 |
| P2 | 3.27 | 3.10 | 3.25 |
| P4 | 3.22 | 3.02 | 3.20 |

#### 4-40 UNC rear press-fit spacer




| No. of poles | Current rating [A] | Working voltage [VDC] | Hole diameter PCB [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 3W3 | 30 | 100 | 3.11 | 47 | E228329 | 3 | 3F3SSA22SP1W40X | 3F3SPA22SP1W40X |
| | | | 3.25 | | | | 3F3SSA22SP2W40X | 3F3SPA22SP2W40X |
| | | | 3.20 | | | | 3F3SSA22SP4W40X | 3F3SPA22SP4W40X |
| 5W5 | 30 | 100 | 3.11 | 47 | E228329 | 3 | 5F5SSA22SP1W40X | 5F5SPA22SP1W40X |
| | | | 3.25 | | | | 5F5SSA22SP2W40X | 5F5SPA22SP2W40X |
| | | | 3.20 | | | | 5F5SSA22SP4W40X | 5F5SPA22SP4W40X |
| 8W8 | 30 | 100 | 3.11 | 47 | E228329 | 3 | 8F8SSA22SP1W40X | 8F8SPA22SP1W40X |
| | | | 3.25 | | | | 8F8SSA22SP2W40X | 8F8SPA22SP2W40X |
| | | | 3.20 | | | | 8F8SSA22SP4W40X | 8F8SPA22SP4W40X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| Termination Code | ø A | ø B min. | ø B max. |
|---|---|---|---|
| P1 | 3.13 | 2.96 | 3.11 |
| P2 | 3.27 | 3.10 | 3.25 |
| P4 | 3.22 | 3.02 | 3.20 |



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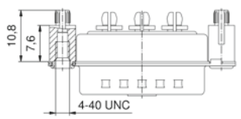
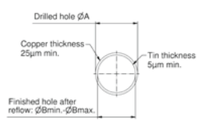
# Filter Combination D-SUB Connectors
## C-Filter

### Press-fit contact straight
### Precision machined contacts

**4-40 UNC rear press-fit spacer, coded version**




*Shell: Steel tin plated*
*Quality class: 3 (A) = 50 mating cyles*
*On request:*
- *higher DWV*
- *Quality class: 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating [A] | Working voltage [VDC] | Hole diameter PCB [mm] | Capacitance [nF] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 2W2C | 30 | 100 | 3.11 | 47 | E228329 | 3 | 2F2CSA22SP1W40X | 2F2CPA22SP1W40X |
| | | | 3.25 | | | | 2F2CSA22SP2W40X | 2F2CPA22SP2W40X |
| | | | 3.20 | | | | 2F2CSA22SP4W40X | 2F2CPA22SP4W40X |
| 3W3C | 30 | 100 | 3.11 | 47 | E228329 | 3 | 3F3CSA22SP1W40X | 3F3CPA22SP1W40X |
| | | | 3.25 | | | | 3F3CSA22SP2W40X | 3F3CPA22SP2W40X |
| | | | 3.20 | | | | 3F3CSA22SP4W40X | 3F3CPA22SP4W40X |

For other capacitance values refer to the part number creator.

| Capacitance value | Code |
|---|---|
| 100 nF | 28 |
| 47 nF | 22 |
| 12 nF | 14 |
| 10 nF | 12 |
| 5 nF | 08 |
| 1.3 nF | 05 |

| Termination Code | ø A | ø B min. | ø B max. |
|---|---|---|---|
| P1 | 3.13 | 2.96 | 3.11 |
| P2 | 3.27 | 3.10 | 3.25 |
| P4 | 3.22 | 3.02 | 3.20 |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Section 5

# D-SUB Hoods and Accessories

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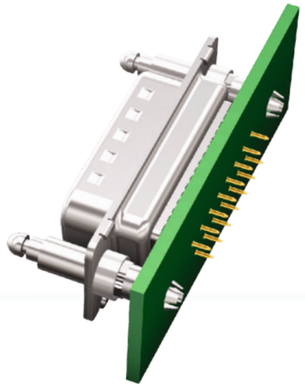



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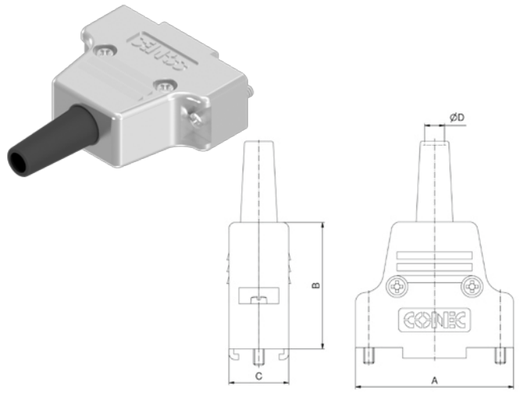
## D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
## Straight cable entry, with cable sleeve

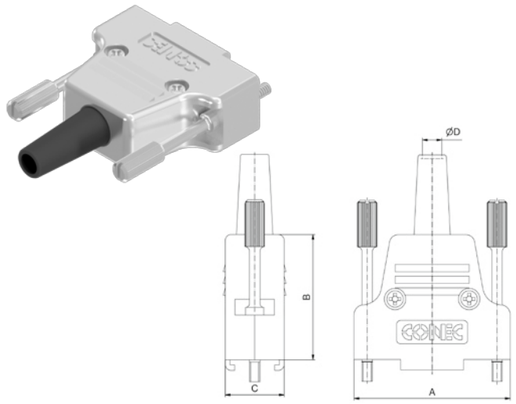
*On request:*
- *M3 thread*

### 4-40 UNC short screw




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 31.7 | 30 | 15 | 5 | E202784 | 165X17409X |
| 15 | | | 40 | 32 | | | | 165X17419X |
| 25 | | | 53.7 | 35 | | 7 | | 165X17429X |
| 37 | | | 70.2 | 41 | | | | 165X17439X |
| 50 | | | 67.8 | | 17.7 | 9.3 | | 165X17449X |

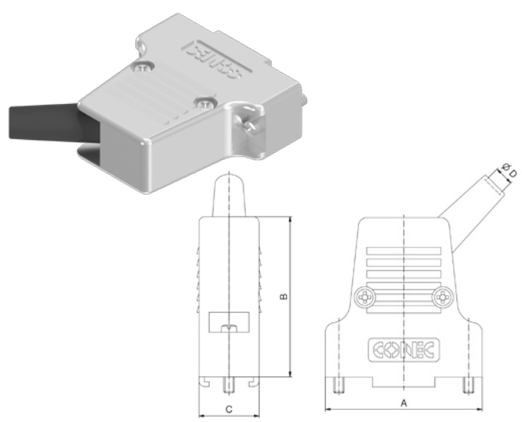
### 4-40 Unc jack screw




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 31.7 | 45.1 | 15 | 5 | E202784 | 165X17309X |
| 15 | | | 40 | 48.2 | | | | 165X17319X |
| 25 | | | 53.7 | 51.3 | | 7 | | 165X17329X |
| 37 | | | 70.2 | 54.4 | | | | 165X17339X |
| 50 | | | 67.8 | 57.5 | 17.7 | 9.3 | | 165X17349X |

## D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
## Side cable entry, with cable sleeve

### 4-40 UNC short screw




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.8 | 39.5 | 15.4 | 5 | E202784 | 165X17559X |
| 15 | | | 40.3 | 41 | | | | 165X17569X |
| 25 | | | 54 | 45 | | 7 | | 165X17579X |
| 37 | | | 70.2 | 48 | | | | 165X17589X |
| 50 | | | 67.8 | | 18.5 | 9.3 | | 165X17599X |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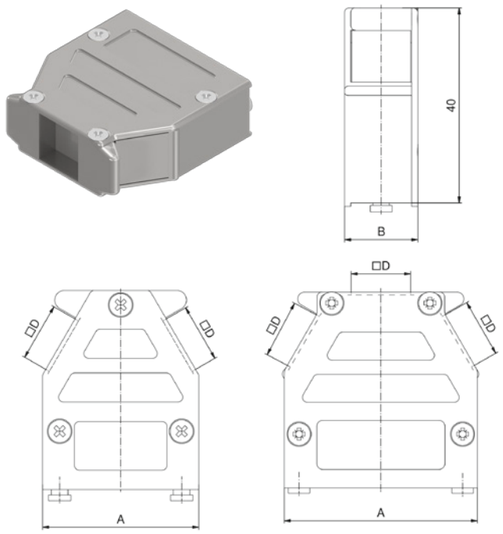
# D-SUB Hoods and Accessories
## EMI / RFI shielding

### D-SUB Metal Hoods, Zinc die-cast
### Variable cable entries

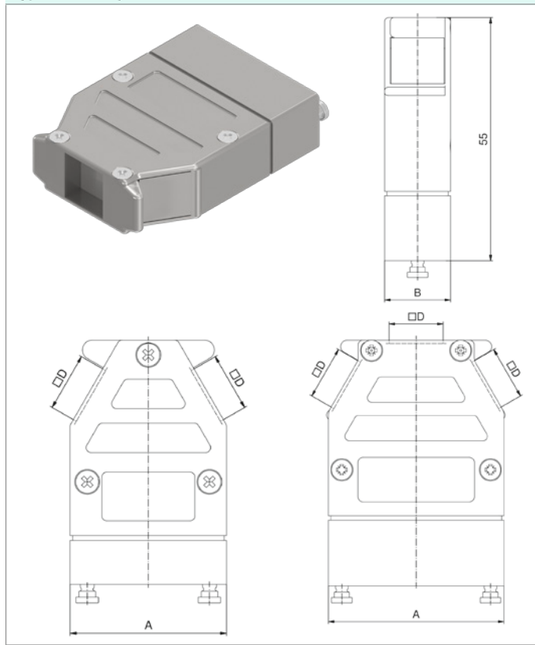
*Cable clamp must be ordered separately*
*On request:*
- *Crimp flange*

**Type 1 without jack screws**




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | / | 2 | 32 | 14.8 | 12.1 | E202784 | 165X10819X |
| 15 | 1 | | 39.3 | | | | 165X10829X |
| 25 | | | 53.2 | | | | 165X10839X |
| 37 | | | 69.5 | | | | 165X10849X |
| 50 | | | 67 | 17.8 | 14.6 | | 165X10859X |

**Type 2 without jack screws**




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | / | 2 | 32 | 14.8 | 12.1 | E202784 | 165X11159X |
| 15 | 1 | | 39.3 | | | | 165X10869X |
| 25 | | | 53.2 | | | | 165X10879X |
| 37 | | | 69.5 | | | | 165X10889X |
| 50 | | | 67 | 17.8 | 14.6 | | 165X10899X |

**Cable clamp**

| No. of poles | Cable diameter | |
|---|---|---|
| 09-37 | 3-12 mm | 160X11189X |
| 50 | 5-14 mm | 160X11199X |



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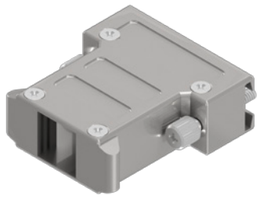
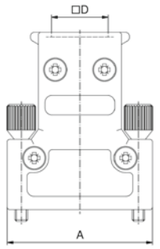
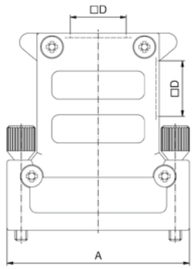
## D-SUB Metal Hoods, Zinc die-cast
## Variable cable entries

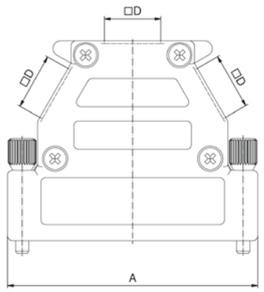
*Cable clamp must be ordered separately*
*On request:*
- *M3 thread*
- *Crimp flange*

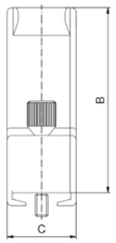
Type 1 Jack screws






| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 31 | 35.5 | 14.8 | 12.1 | E202784 | 165X11609X |
| 15 | | 1 | 39.4 | 40 | | | | 165X11619X |
| 25 | | | 53.2 | | | | | 165X11629X |
| 37 | | 2 | 69.6 | | | | | 165X11639X |
| 50 | | | 67 | 42 | 17.8 | 14.6 | | 165X11649X |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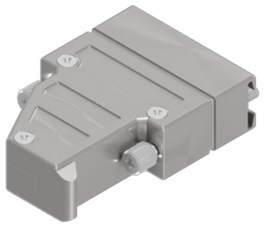
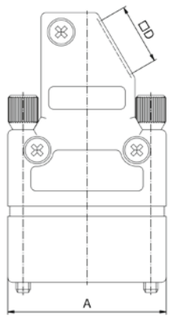
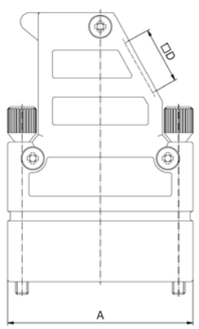
## D-SUB Metal Hoods, Zinc die-cast
## Variable cable entries

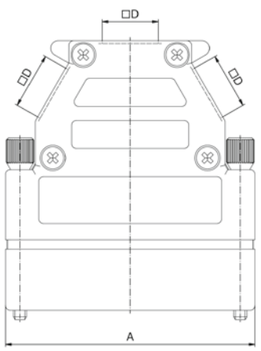
*Cable clamp must be ordered separately*
*On request:*
- *M3 thread*
- *Crimp flange*

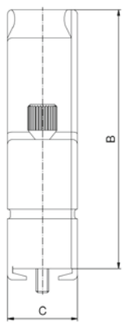
### Type 2 Jack screws





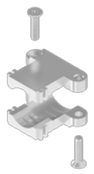



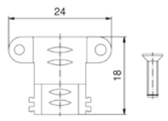




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | | / | 31 | 50.5 | | | | 165X14409X |
| 15 | | 1 | 39.4 | | | | | 165X14419X |
| 25 | 1 | | 53.2 | 55 | 14.8 | 12.1 | E202784 | 165X14429X |
| 37 | | 2 | 69.6 | | | | | 165X14439X |
| 50 | | | 67 | 57 | 17.8 | 14.6 | | 165X14449X |

### Cable clamp






| No. of poles | Cable diameter | |
|---|---|---|
| 09-37 | 3-12 mm | 160X11189X |
| 50 | 5-14 mm | 160X11199X |



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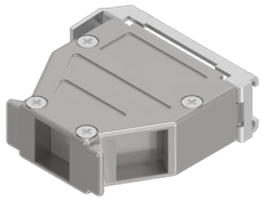
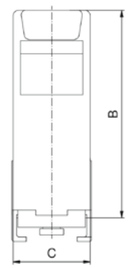
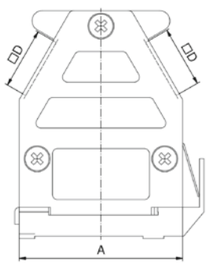
# D-SUB Hoods and Accessories
## EMI / RFI shielding

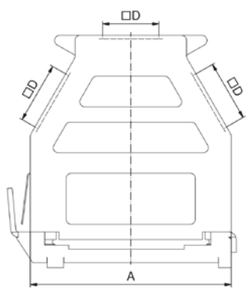
### D-SUB Metal Hoods, Zinc die-cast
### Variable cable entries

*Cable clamp must be ordered separately*
*On request:*
- *Crimp flange*

**Slide lock**

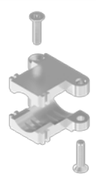
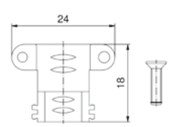







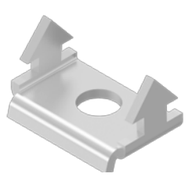

| *No. of poles* | *Number of straight cable entries* | *Number of side cable entries* | *Measure A [mm]* | *Measure B [mm]* | *Measure D [mm]* | *UL-File* | *Part No.* |
|---|---|---|---|---|---|---|---|
| 09 | / | 2 | 32 | 14.8 | 12.1 | E202784 | 165X11659X |
| 15 | 1 | | 39.3 | | | | 165X11669X |
| 25 | | | 53.2 | | | | 165X11679X |
| 37 | | | 69.5 | | | | 165X11689X |
| 50 | | | 67 | 17.8 | 14.6 | | 165X11699X |

**Cable clamp**


| *No. of poles* | *Cable diameter* | |
|---|---|---|
| 09-37 | 3-12 mm | 160X11189X |
| 50 | 5-14 mm | 160X11199X |

**Locking hooks for slide lock**



| | | |
|---|---|---|
| 09-37 | | 165X10119X |
| 50 | | 165X10129X |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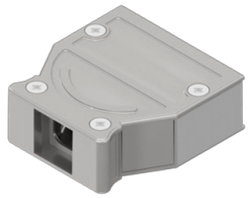
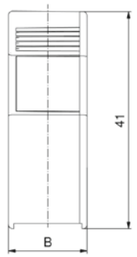
# D-SUB Hoods and Accessories
## EMI / RFI shielding

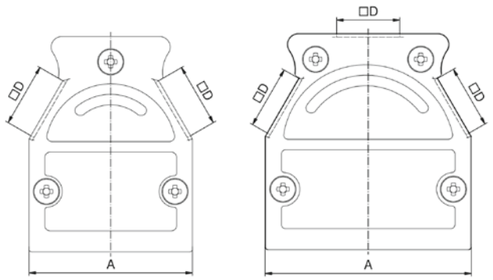
### D-SUB Metal Hoods, Zinc die-cast
### Variable cable entries

*Cable clamp must be ordered separately*

**Without jack screw, internal ground**

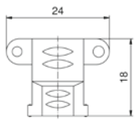





| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | / | 2 | 31 | 14.8 | 12 x 0.9 | E202784 | 600X51109X |
| 15 | 1 | | 39 | | | | 600X51115X |
| 25 | | | 53 | | | | 600X51125X |
| 37 | | | 69.5 | | | | 600X51137X |
| 50 | | | 67 | 17.6 | 14.3 x 11.6 | | 600X51150X |

**Cable clamp**




| No. of poles | Cable diameter | Part No. |
|---|---|---|
| 09-37 | 3-12 mm | 160X10139X |
| 50 | 5-14 mm | 160X10149X |



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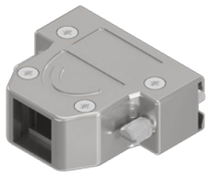
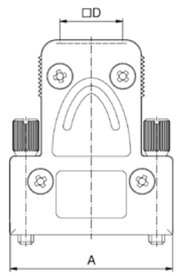
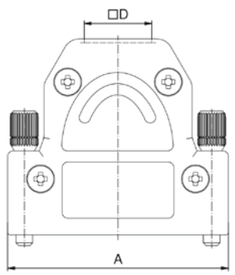
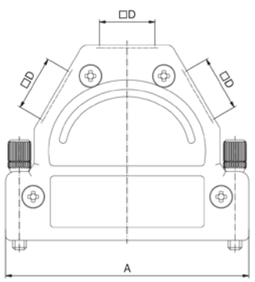
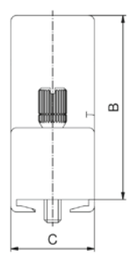
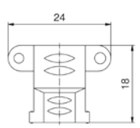
# D-SUB Hoods and Accessories

## D-SUB Metal Hoods, Zinc die-cast
## Variable cable entries

*Cable clamp must be ordered separately*
*On request:*
- *M3 thread*

| 4-40 UNC jack screw | *No. of poles* | *Number of straight cable entries* | *Number of side cable entries* | *Measure A [mm]* | *Measure B [mm]* | *Measure C [mm]* | *Measure D [mm]* | *UL-File* | *Part No.* |
|---|---|---|---|---|---|---|---|---|---|
|          | 09 | | / | 31 | 37.2 | 15 | 8 x 9.00 | | 600X51209X |
| | 15 | 1 | | 39 | 35.2 | 14.8 | 11 x 9.00 | E202784 | 600X51215X |
| | 25 | | 2 | 53 | 42.7 | | 11.5 x 9.00 | | 600X51225X |

| Cable clamp | *No. of poles* | *Cable diameter* | |
|---|---|---|---|
|   | 09-37 | 3-12 mm | 160X10139X |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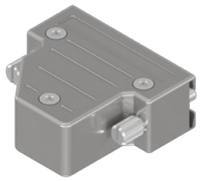
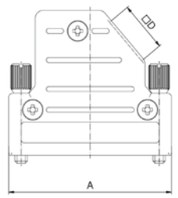
## D-SUB Hoods and Accessories
EMI / RFI shielding

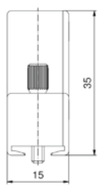
### D-SUB Metal Hoods, Zinc die-cast
Side cable entry, jack screws

*Cable clamp must be ordered separately*
*On request:*
- *M3 thread*

**With jack screw, internal ground**

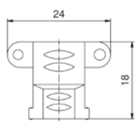





| *No. of poles* | *Number of straight cable entries* | *Number of side cable entries* | *Measure A [mm]* | *Measure D [mm]* | *UL-File* | *Part No.* |
|---|---|---|---|---|---|---|
| 09 | / | 1 | 31 | 10 x 9.2 | E202784 | 600X51309X |
| 15 | | | 39 | 12 x 9.2 | | 600X51315X |
| 25 | | | 53 | | | 600X51325X |

**Cable clamp**




| *No. of poles* | *Cable diameter* | |
|---|---|---|
| 09-25 | 3-12 mm | 160X10139X |



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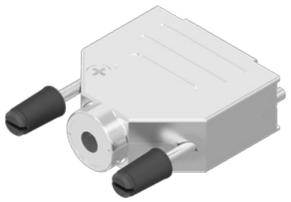
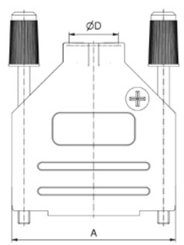
# D-SUB Hoods and Accessories
## EMI / RFI shielding

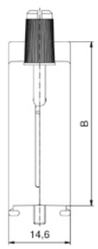
### D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
### Straight cable entry, plastic strain relief

*Attentuation factor: > 40 dB between 30 Mhz and 1 GHz*
*On request:*
- *M3 thread*

4-40 UNC jack screw

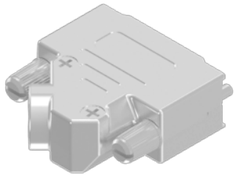


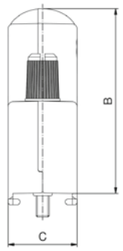


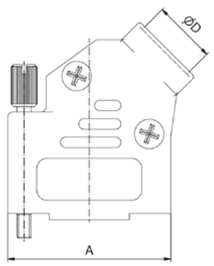



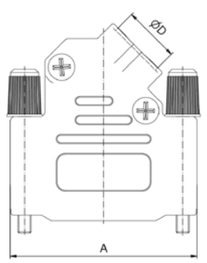

| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 31.2 | 38.3 | 4 - 13 | E202784 | 165X02609X |
| 15 | | | 39.3 | 40.5 | | | 165X02619X |
| 25 | | | 53.4 | 47.8 | | | 165X02629X |
| 37 | | | 69.9 | 52.2 | | | 165X02639X |

4-40 UNC jack screw






| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31 | 36.2 | 4 - 13 | E202784 | 165X02689X |
| 15 | | | 39.5 | 40.2 | | | 165X02699X |
| 25 | | | 53.2 | | | | 165X02709X |
| 37 | | | 69.7 | | | | 165X02719X |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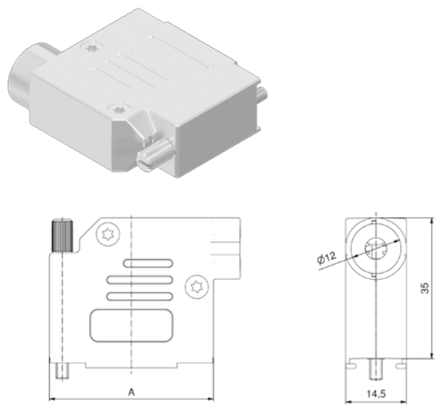
## D-SUB Hoods and Accessories
### EMI / RFI shielding

**D-SUB Metal Hoods, Zinc die-cast, surface nickel plated**
**Side cable entry, plastic strain relief**

*Attentuation factor: > 40 dB between 30 Mhz and 1 GHz*
*On request:*
- *M3 thread*

4-40 UNC jack screw



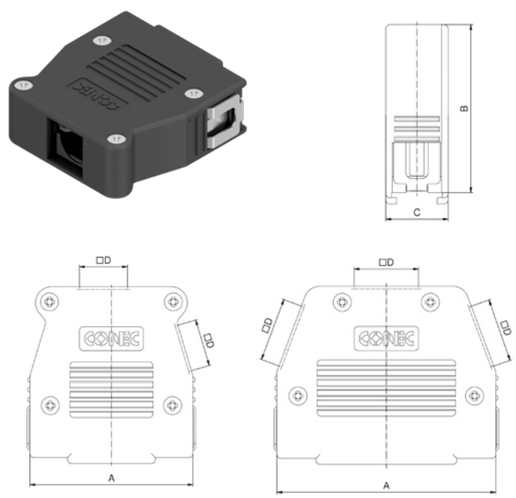

| *No. of poles* | *Number of straight cable entries* | *Number of side cable entries* | *Measure A [mm]* | *Part No.* |
|---|---|---|---|---|
| 09 | / | 1 | 37.7 | 16-002730 |
| 15 | | | 46 | 16-002740 |

## D-SUB Hoods and Accessories
### CONEC SnapLock

**D-SUB Plastic Hoods, unshielded**
**Variable cable entries**

*For hood to hood connection please order connection bolts separately*

SnapLock, plastic black




| *No. of poles* | *Number of straight cable entries* | *Number of side cable entries* | *Measure A [mm]* | *Measure B [mm]* | *Measure C [mm]* | *Measure D [mm]* | *Part No.* |
|---|---|---|---|---|---|---|---|
| 09 | 1 | 1 | 32.5 | 41.5 | 15.4 | 8.5 | 16-001810 |
| 15 | | | 40.8 | | | 10 | 16-001820 |
| 25 | | 2 | 54.4 | | | 11 | 16-001830 |
| 37 | | | 70.9 | | | | 16-001840 |
| 50 | | | 68.5 | | 18.4 | 12 | 16-001850 |



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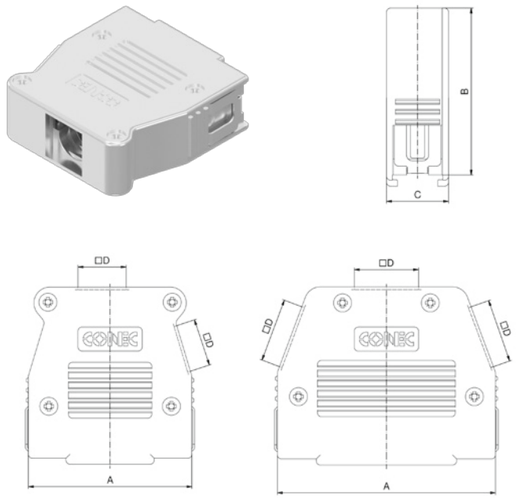
## D-SUB Hoods and Accessories
CONEC SnapLock

### D-SUB Plastic Hoods, shielded
Variable cable entries

*For hood to hood connection please order connection bolts separately*

SnapLock, plastic metallized

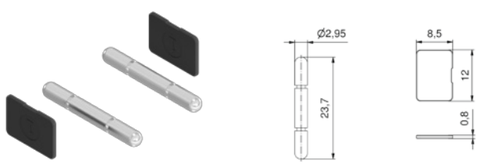



| *No. of poles* | *Number of straight cable entries* | *Number of side cable entries* | *Measure A [mm]* | *Measure B [mm]* | *Measure C [mm]* | *Measure D [mm]* | *Part No.* |
|---|---|---|---|---|---|---|---|
| 09 | 1 | 1 | 32.5 | 41.5 | 15.4 | 8.5 | 16-001750 |
| 15 | | | 40.8 | | | 10 | 16-001760 |
| 25 | | 2 | 54.4 | | | 11 | 16-001770 |
| 37 | | | 70.9 | | | | 16-001780 |
| 50 | | | 68.5 | | 18.4 | 12 | 16-001790 |

## D-SUB Hoods and Accessories
CONEC SnapLock

### Kit Encoding Connection bolts
for SnapLock

Locking Kit hood-to-hood




*Part No.*: 16-002200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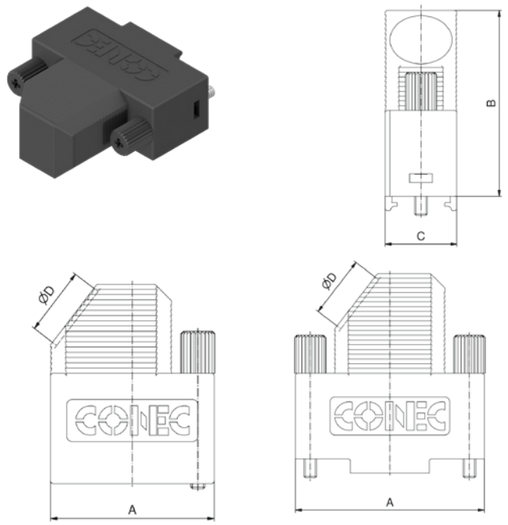
# D-SUB Hoods and Accessories

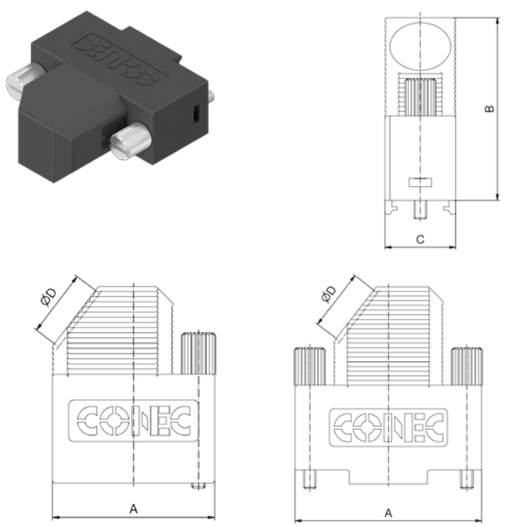
## D-SUB Plastic Hoods, unshielded
## Side cable entry

Plastic black, jack screws with plastic head 4-40 UNC




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.3 | 39.15 | 15 | 8 | E202784 | 165X11709X |
| 15 | | | 39.62 | | | 9 | | 165X11719X |
| 25 | | | 53.52 | | | 11 | | 165X11729X |
| 37 | | | 69.8 | | | | | 165X11739X |
| 50 | | | 67.41 | | 19 | 14.5 | | 165X11749X |

Plastic black, jack screws 4-40 UNC




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.3 | 39.15 | 15 | 8 | E202784 | 165X00829A |
| 15 | | | 39.62 | | | 9 | | 165X00839A |
| 25 | | | 53.52 | | | 11 | | 165X00849A |
| 37 | | | 69.8 | | | | | 165X00859A |
| 50 | | | 67.41 | | 19 | 14.5 | | 165X00869A |



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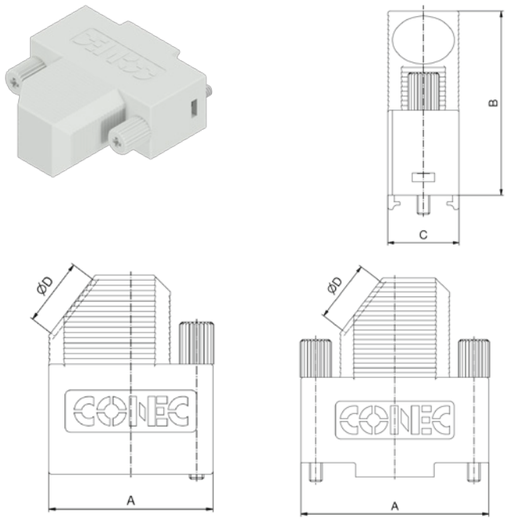
# D-SUB Hoods and Accessories

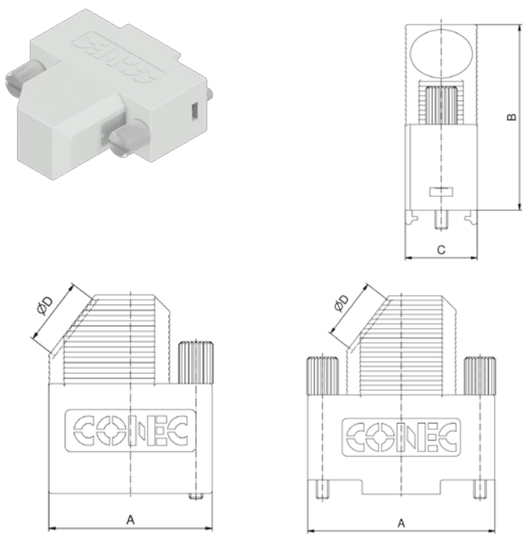
## D-SUB Plastic Hoods, unshielded
## Side cable entry

Plastic grey, jack screws with plastic head 4-40 UNC




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.3 | 39.15 | 15 | 8 | E202784 | 165X16019X |
| 15 | | | 39.62 | | | 9 | | 165X16029X |
| 25 | | | 53.52 | | | 11 | | 165X16039X |
| 37 | | | 69.8 | | | | | 165X16049X |
| 50 | | | 67.41 | | 19 | 14.5 | | 165X16059X |

Plastic grey, jack screws 4-40 UNC




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.3 | 39.15 | 15 | 8 | E202784 | 165X16069X |
| 15 | | | 39.62 | | | 9 | | 165X16079X |
| 25 | | | 53.52 | | | 11 | | 165X16089X |
| 37 | | | 69.8 | | | | | 165X16099X |
| 50 | | | 67.41 | | 19 | 14.5 | | 165X16109X |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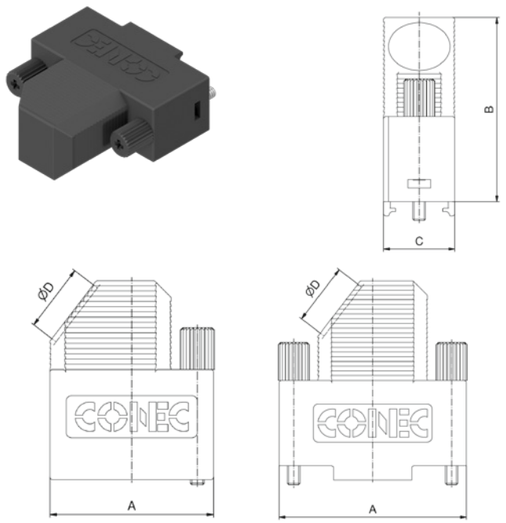
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoods, shielded
## Side cable entry

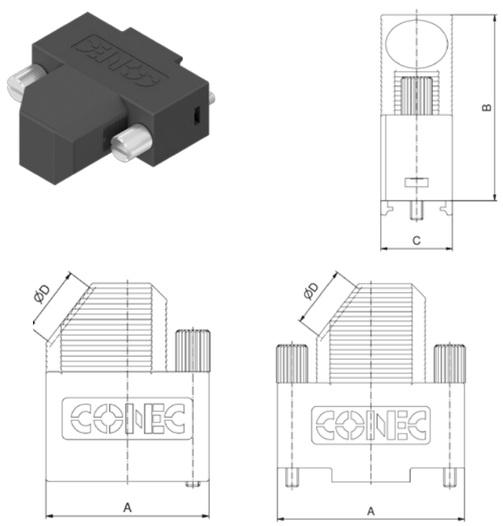
*Attentuation factor at 10 MHz > 60dB*

### Plastic black, jack screws with plastic head 4-40 UNC




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.3 | 39.15 | 15 | 8 | E202784 | 165X11759X |
| 15 | | | 39.62 | | | 9 | | 165X11769X |
| 25 | | | 53.52 | | | 11 | | 165X11779X |
| 37 | | | 69.8 | | | | | 165X11789X |
| 50 | | | 67.41 | | 19 | 14.5 | | 165X11799X |

### Plastic black, jack screws 4-40 UNC




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.3 | 39.15 | 15 | 8 | E202784 | 165X00779A |
| 15 | | | 39.62 | | | 9 | | 165X00789A |
| 25 | | | 53.52 | | | 11 | | 165X00799A |
| 37 | | | 69.8 | | | | | 165X00809A |
| 50 | | | 67.41 | | 19 | 14.5 | | 165X00819A |



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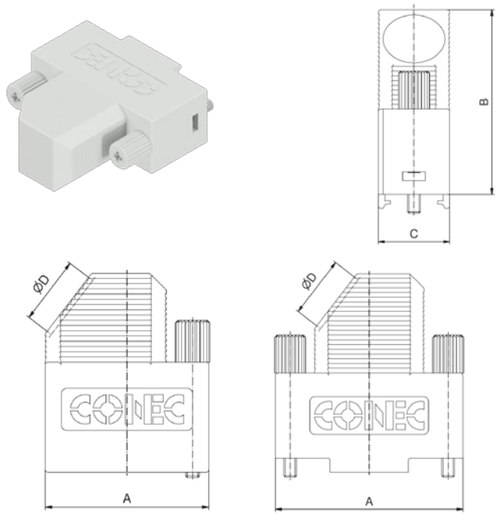
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoods, shielded
## Side cable entry

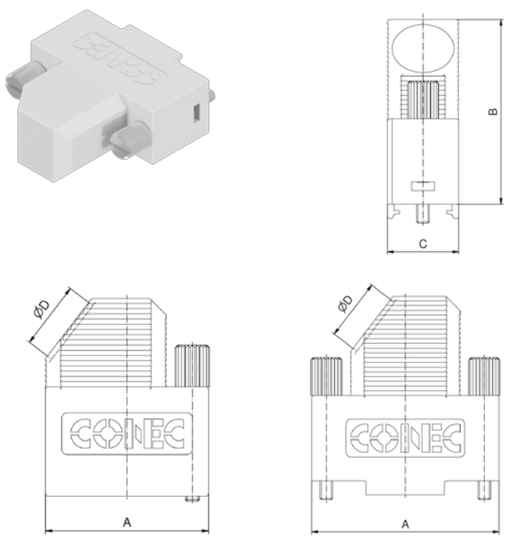
*Attentuation factor at 10 MHz > 60dB*

### Plastic grey, jack screws with plastic head 4-40 UNC




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.3 | 39.15 | 15 | 8 | E202784 | 165X16119X |
| 15 | | | 39.62 | | | 9 | | 165X16129X |
| 25 | | | 53.52 | | | 11 | | 165X16139X |
| 37 | | | 69.8 | | | | | 165X16149X |
| 50 | | | 67.41 | | 19 | 14.5 | | 165X16159X |

### Plastic grey, jack screws 4-40 UNC




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.3 | 39.15 | 15 | 8 | E202784 | 165X16169X |
| 15 | | | 39.62 | | | 9 | | 165X16179X |
| 25 | | | 53.52 | | | 11 | | 165X16189X |
| 37 | | | 69.8 | | | | | 165X16199X |
| 50 | | | 67.41 | | 19 | 14.5 | | 165X16209X |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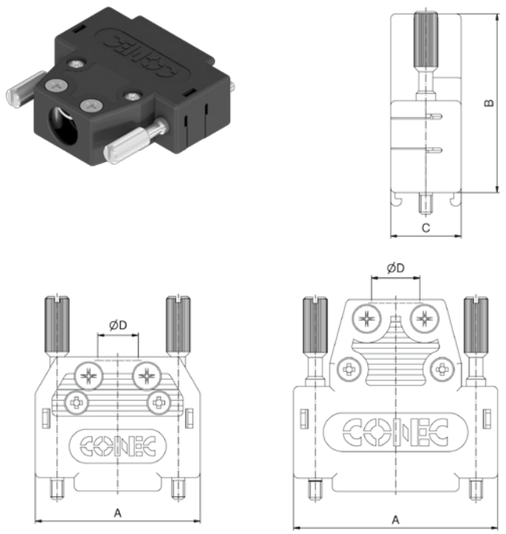
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoodss, two part
## Straight cable entry

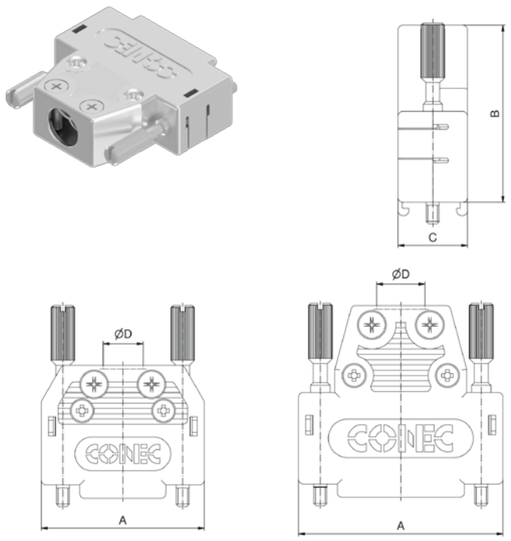
*Integrated cable clamping*
*On request:*
- *M3 thread*

**Plastic black, 4-40 UNC jack screws**




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 34 | 25 | 14.5 | 8.5 | E202784 | 165X10139X |
| 15 | | | 42.3 | | | 10 | | 165X10149X |
| 25 | | | 56 | 37 | | 10.5 | | 165X10159X |
| 37 | | | 72.5 | | | | | 165X10169X |
| 50 | | | 67 | 49.1 | 19.8 | 14 | | 165X10179X |

**Plastic metallized, 4-40 UNC jack screws**




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 34 | 25 | 14.5 | 8.5 | E202784 | 165X10909X |
| 15 | | | 42.3 | | | 10 | | 165X10919X |
| 25 | | | 56 | 37 | | 10.5 | | 165X10929X |
| 37 | | | 72.5 | | | | | 165X10939X |
| 50 | | | 67 | 49.1 | 19.8 | 14 | | 165X10949X |



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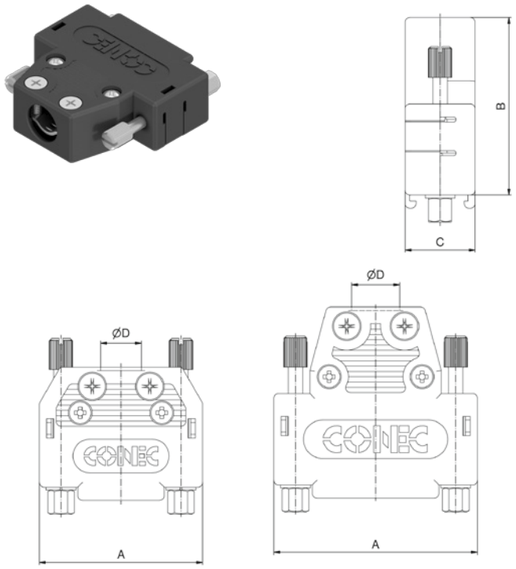
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoods, two part
## Straight cable entry, Cable-to-cable connection

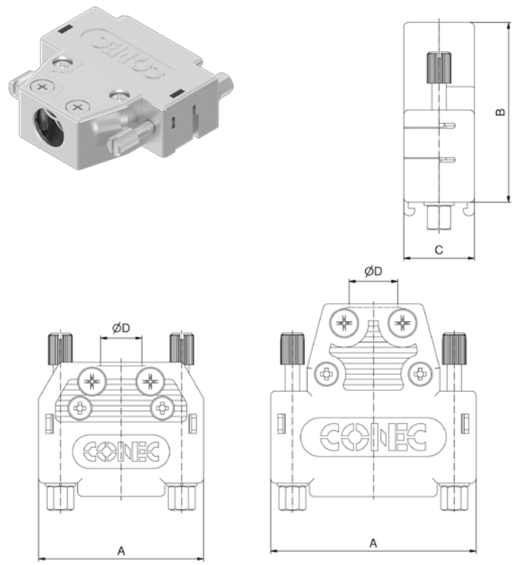
*Integrated cable clamping*
*On request:*
- *M3 thread*

**Plastic black, 4-40 UNC jack screws 4-40 UNC hex bolt**




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 34 | 25 | 14.5 | 8.5 | E202784 | 165X10239X |
| 15 | | | 42.3 | | | 10 | | 165X10249X |
| 25 | | | 56 | 37 | | 10.5 | | 165X10259X |
| 37 | | | 72.5 | | | | | 165X10269X |
| 50 | | | 67 | 49.1 | 19.8 | 14 | | 165X10279X |

**Plastic metallized, 4-40 UNC jack screws 4-40 UNC hex bolt**




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 34 | 25 | 14.5 | 8.5 | E202784 | 165X11009X |
| 15 | | | 42.3 | | | 10 | | 165X11019X |
| 25 | | | 56 | 37 | | 10.5 | | 165X11029X |
| 37 | | | 72.5 | | | | | 165X11039X |
| 50 | | | 67 | 49.1 | 19.8 | 14 | | 165X11049X |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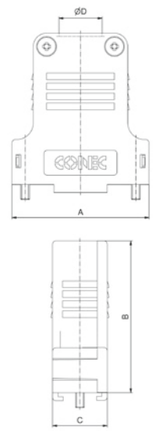
# D-SUB Hoods and Accessories
## Suitable for Combination D-SUB Connectors

### D-SUB Plastic Hoods, large internal space
### Straight cable entry

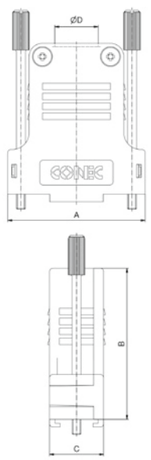
*Large internal space for crimp, high power and coaxial contacts*
*On request:*
- *M3 thread*

**Plastic black, 4-40 UNC short screw**



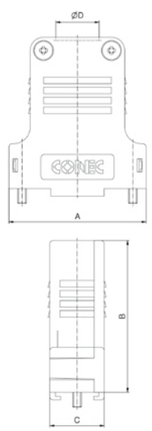
| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 32.9 | 39.5 | 16.3 | 11 | E202784 | 165X13369X |
| 15 | | | 41.2 | 45.5 | | | | 165X13379X |
| 25 | | | 54.9 | 52.5 | | 12 | | 165X13389X |
| 37 | | | 71.4 | 55.5 | 18.7 | 15 | | 165X13399X |
| 50 | | | 69 | 55 | 19.5 | 14 | | 165X13409X |

**Plastic black, 4-40 UNC jack screws**



| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 32.9 | 39.5 | 16.3 | 11 | E202784 | 165X03309A |
| 15 | | | 41.2 | 45.5 | | | | 165X03319A |
| 25 | | | 54.9 | 52.5 | | 12 | | 165X03329A |
| 37 | | | 71.4 | 55.5 | 18.7 | 15 | | 165X03339A |
| 50 | | | 69 | 55 | 19.5 | 14 | | 165X03349A |

**Plastic metallized, 4-40 UNC short screws**



| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 32.9 | 39.5 | 16.3 | 11 | E202784 | 165X13469X |
| 15 | | | 41.2 | 45.5 | | | | 165X13479X |
| 25 | | | 54.9 | 52.5 | | 12 | | 165X13489X |
| 37 | | | 71.4 | 55.5 | 18.7 | 15 | | 165X13499X |
| 50 | | | 69 | 55 | 19.5 | 14 | | 165X13509X |



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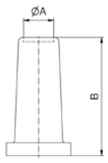
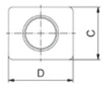
## D-SUB Hoods and Accessories
Suitable for Combination D-SUB Connectors

### D-SUB Plastic Hoods, large internal space

Cable grommet for 9 - 50 pos. hood




| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Part No. |
|---|---|---|---|---|---|
| 09/15 | 5 | 24.5 | 11.2 | 11.2 | 795-907600 |
| 25/37 | 7 | 27.5 | 12.2 | 15 | 795-907700 |
| 50 | 9.3 | 29.2 | 15 | 20 | 795-907800 |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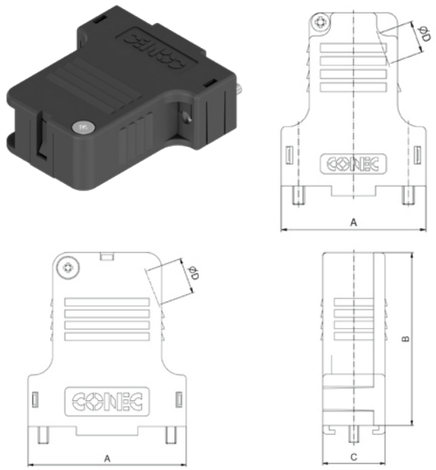
## D-SUB Hoods and Accessories
Suitable for Combination D-SUB Connectors

### D-SUB Plastic Hoods, large internal space
Side cable entry

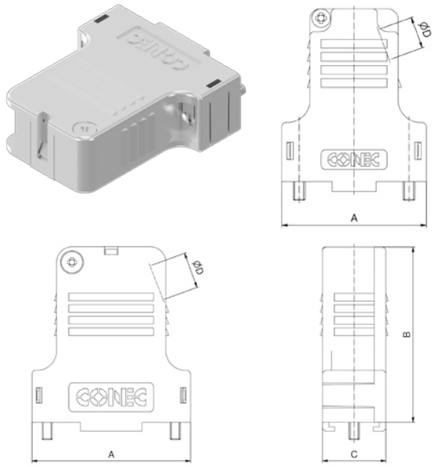
*Large internal space for crimp, high power and coaxial contacts*
*On request:*
- *M3 thread*

Plastic black, 4-40 UNC short screws




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 32.9 | 39.5 | 16.4 | 8.6 | E202784 | 165X13419X |
| 15 | | | 41.2 | 45.5 | | 9.4 | | 165X13429X |
| 25 | | | 54.9 | 52.5 | | 13 | | 165X13439X |
| 37 | | | 71.4 | 55 | 18.8 | 15 | | 165X13449X |
| 50 | | | 69 | | 19.6 | 14.9 | | 165X13459X |

Plastic metallized, 4-40 UNC short screws

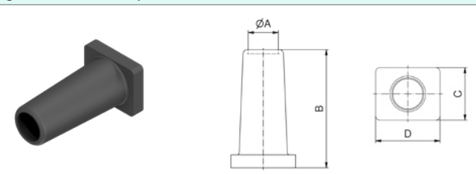



| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 32.9 | 39.5 | 16.4 | 8.6 | E202784 | 165X13519X |
| 15 | | | 41.2 | 45.5 | | 9.4 | | 165X13529X |
| 25 | | | 54.9 | 52.5 | | 13 | | 165X13539X |
| 37 | | | 71.4 | 55 | 18.8 | 15 | | 165X13549X |
| 50 | | | 69 | | 19.6 | 14.9 | | 165X13559X |

## D-SUB Hoods and Accessories
Suitable for Combination D-SUB Connectors

### D-SUB Plastic Hoods, large internal space
Side cable entry

Cable grommet for 9 - 50 pos. hood




| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Part No. |
|---|---|---|---|---|---|
| 09/15 | 5 | 24.5 | 11.2 | 11.2 | 795-907600 |
| 25/37 | 7 | 27.5 | 12.2 | 15 | 795-907700 |
| 50 | 9.3 | 29.2 | 15 | 20 | 795-907800 |



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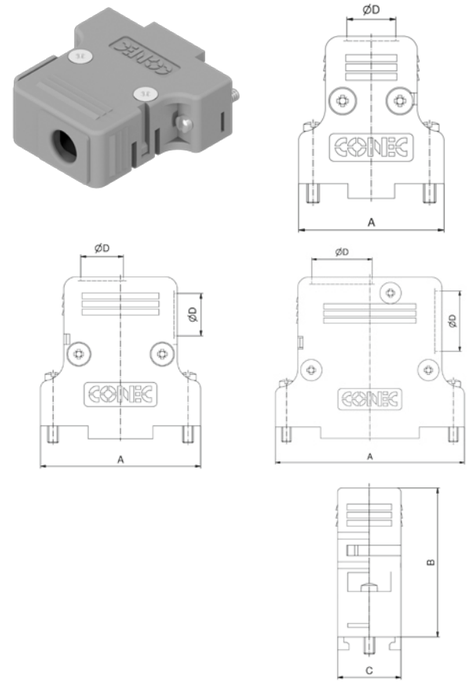
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoods, fixed screws
## Variable cable entries

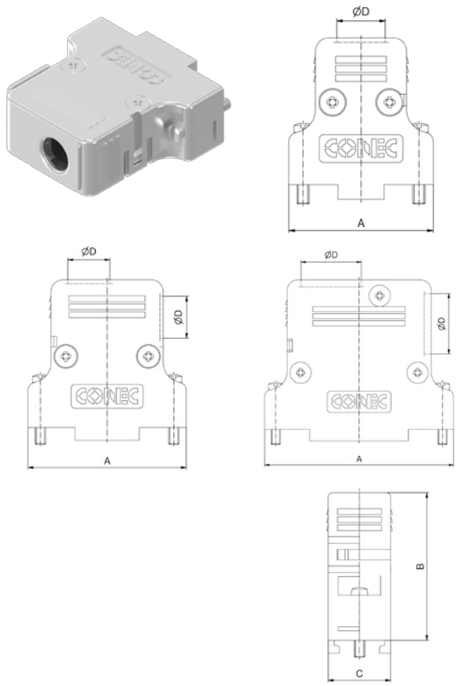
*Integrated cable clamping*

### Plastic grey, 4-40 UNC short screws




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 31.2 | 31.8 | 15.6 | 8 | E202784 | 165X11869X |
| 15 | | 1 | 39.5 | 37 | | | | 165X11879X |
| 25 | | | 53.2 | | | 10 | | 165X11889X |
| 37 | | | 69.7 | 42.2 | | | | 165X11899X |
| 50 | | | 67.3 | | 18.5 | 12.5 | | 165X11909X |

### Plastic metallized, 4-40 UNC short screws




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 31.2 | 31.8 | 15.6 | 8 | E202784 | 165X11919X |
| 15 | | 1 | 39.5 | 37 | | | | 165X11929X |
| 25 | | | 53.2 | | | 10 | | 165X11939X |
| 37 | | | 69.7 | 42.2 | | | | 165X11949X |
| 50 | | | 67.3 | | 18.5 | 12.5 | | 165X11959X |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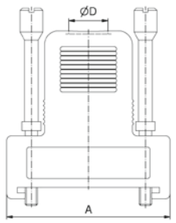
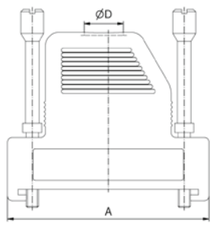
# D-SUB Hoods and Accessories

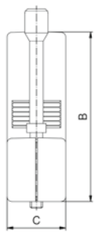
## D-SUB Plastic Hoods, low profile
## Straight cable entry

*Space-saving, side-by-side mounting*
*Packaging: in pack units as a single package*

### Plastic black, 4-40 UNC jack screws

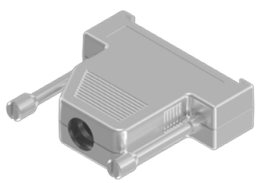
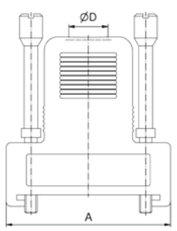


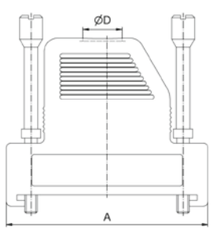


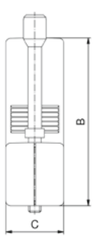



| *No. of poles* | *Number of straight cable entries* | *Number of side cable entries* | *Measure A [mm]* | *Measure B [mm]* | *Measure C [mm]* | *Measure D [mm]* | *UL-File* | *Part No.* |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 35.8 | 37 | 12.6 | 8 | E202784 | 165X16219X |
| 15 | | | 44.1 | 38 | | | | 165X16229X |
| 25 | | | 57.9 | 41 | | 9 | | 165X16239X |
| 37 | | | 74.3 | | | | | 165X16249X |

### Plastic metallized, 4-40 UNC jack screws






| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 35.8 | 37 | 12.6 | 8 | E202784 | 165X16299X |
| 15 | | | 44.1 | 38 | | | | 165X16309X |
| 25 | | | 57.9 | 41 | | 9 | | 165X16319X |
| 37 | | | 74.3 | | | | | 165X16329X |



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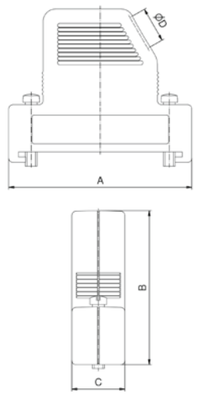
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoods, low profile
## Side cable entry

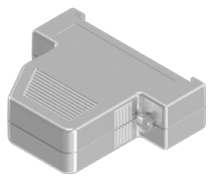
*Space-saving, side-by-side mounting*
*Packaging: in pack units as a single package*

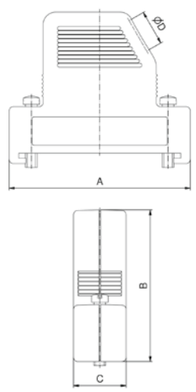
### Plastic black, 4-40 UNC short screws




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 35.8 | 37 | 12.6 | 8 | E202784 | 165X16379X |
| 15 | | | 44.1 | 38 | | | | 165X16389X |
| 25 | | | 57.9 | 41 | | 9 | | 165X16399X |
| 37 | | | 74.3 | | | | | 165X16409X |

### Plastic metallized, 4-40 UNC short screws






| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 35.8 | 37 | 12.6 | 8 | E202784 | 165X16459X |
| 15 | | | 44.1 | 38 | | | | 165X16469X |
| 25 | | | 57.9 | 41 | | 9 | | 165X16479X |
| 37 | | | 74.3 | | | | | 165X16489X |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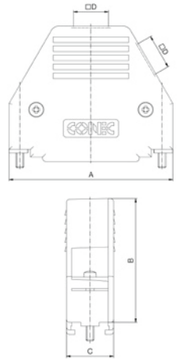
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoods, integrated strain relief
## Straight and side cable entry

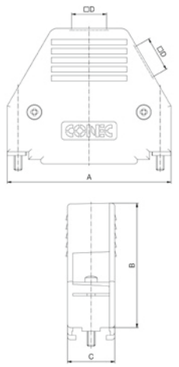
*Entries not in use are blanked off with blanking plugs*

### Plastic black, 4-40 UNC short screws



| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | 1 | 32 | 36.7 | 16.5 | 6.3 | E202784 | 165X11239X |
| 15 | | | 40 | 38.2 | | 8 | | 165X11249X |
| 25 | | | 54.2 | 42.2 | | 10.5 | | 165X11259X |
| 37 | | | 70.6 | 47.2 | | 11.5 | | 165X11269X |
| 50 | | | 68.2 | | 20.6 | 13.7 | | 165X16539X |

### Plastic black, slide lock version including spring



| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | 1 | 32 | 36.7 | 16.5 | 6.3 | E202784 | 165X11279X |
| 15 | | | 40 | 38.2 | | 8 | | 165X11289X |
| 25 | | | 54.2 | 42.2 | | 10.5 | | 165X11299X |
| 37 | | | 70.6 | 47.2 | | 11.5 | | 165X11309X |
| 50 | | | 68.2 | | 20.6 | 13.7 | | 165X16549X |



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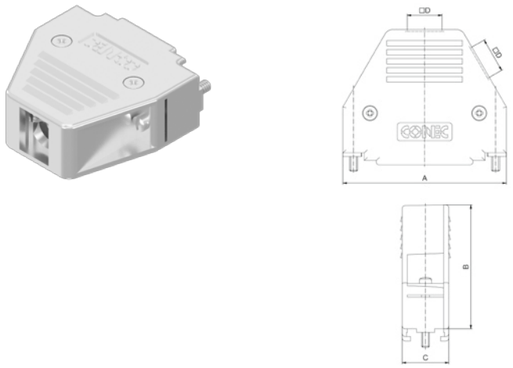
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoods, integrated strain relief
## Straight and side cable entry

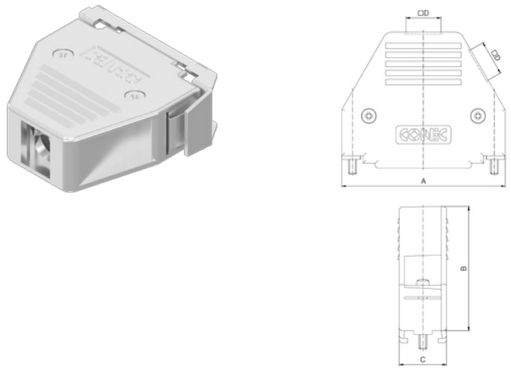
*Entries not in use are blanked off with blanking plugs*

### Plastic metallized, 4-40 UNC short screws



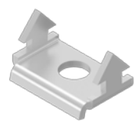
| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | 1 | 32 | 36.7 | 16.5 | 6.3 | E202784 | 165X11319X |
| 15 | | | 40 | 38.2 | | 8 | | 165X11329X |
| 25 | | | 54.2 | 42.2 | | 10.5 | | 165X11339X |
| 37 | | | 70.6 | 47.2 | | 11.5 | | 165X11349X |
| 50 | | | 68.2 | | 20.6 | 13.7 | | 165X16559X |

### Plastic metallized, slide lock version including spring



| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | 1 | 32 | 36.7 | 16.5 | 6.3 | E202784 | 165X11359X |
| 15 | | | 40 | 38.2 | | 8 | | 165X11369X |
| 25 | | | 54.2 | 42.2 | | 10.5 | | 165X11379X |
| 37 | | | 70.6 | 47.2 | | 11.5 | | 165X11389X |
| 50 | | | 68.2 | | 20.6 | 13.7 | | 165X16569X |

### Locking hooks for 9-50 pos. hood



| No. of poles | Part No. |
|---|---|
| 09-37 | 165X10119X |
| 50 | 165X16609X |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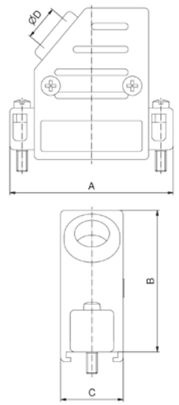
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoods
## Side cable entry

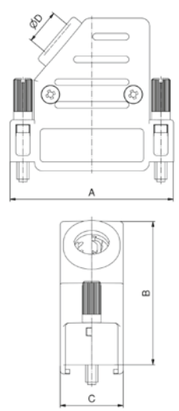
*Packaging: in pack units as a single package*

### Plastic black, 4-40 UNC short screws




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.5 | 37 | 15.2 | 8.5 | E202784 | 600X54009X |
| 15 | | | 40 | | | | | 600X54015X |
| 25 | | | 53.5 | 41 | | 11 | | 600X54025X |
| 37 | | | 70 | | | | | 600X54037X |
| 50 | | | 67.8 | | 18.2 | 12 | | 600X54050X |

### Plastic black, 4-40 UNC jack screws




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.5 | 37 | 15.2 | 8.5 | E202784 | 600X55009X |
| 15 | | | 40 | | | | | 600X55015X |
| 25 | | | 53.5 | 41 | | 11 | | 600X55025X |
| 37 | | | 70 | | | | | 600X55037X |
| 50 | | | 67.8 | | 18.2 | 12 | | 600X55050X |



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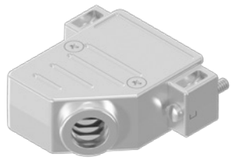
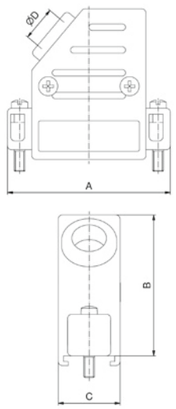
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoods
## Side cable entry

*Packaging: in pack units as a single package*

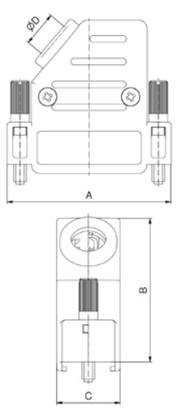
### Plastic metallized, 4-40 UNC short screws






| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.5 | 37 | 15.2 | 8.5 | E202784 | 600X56009X |
| 15 | | | 40 | | | | | 600X56015X |
| 25 | | | 53.5 | 41 | | 11 | | 600X56025X |
| 37 | | | 70 | | | | | 600X56037X |
| 50 | | | 67.8 | | 18.2 | 12 | | 600X56050X |

### Plastic metallized, 4-40 UNC jack screws




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | / | 1 | 31.5 | 37 | 15.2 | 8.5 | E202784 | 600X57009X |
| 15 | | | 40 | | | | | 600X57015X |
| 25 | | | 53.5 | 41 | | 11 | | 600X57025X |
| 37 | | | 70 | | | | | 600X57037X |
| 50 | | | 67.8 | | 18.2 | 12 | | 600X57050X |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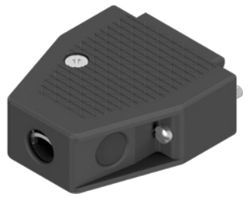
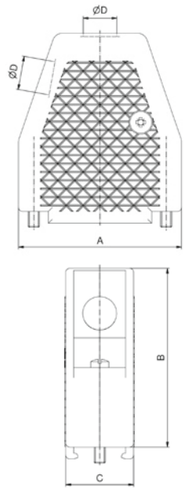
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoods
## Straight and side cable entry

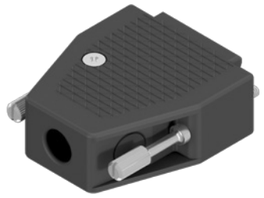
### Plastic black, 4-40 UNC short screws

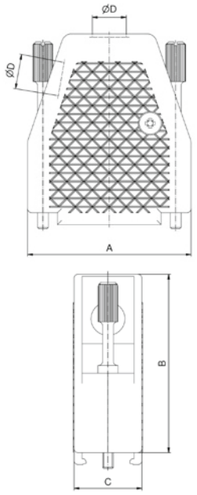





| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | 1 | 33 | 45.5 | 17 | 7.5 | E202784 | 165X13019X |
| 15 | | | 41 | | | 8.5 | | 165X13029X |
| 25 | | | 55 | 47 | | 10.5 | | 165X13039X |
| 37 | | | 71.3 | 51 | | 11 | | 165X13049X |
| 50 | | | 69 | 50 | 20 | 12.5 | | 165X13059X |

### Plastic black, 4-40 UNC jack screws






| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | 1 | 33 | 45.5 | 17 | 7.5 | E202784 | 165X13079X |
| 15 | | | 41 | | | 8.5 | | 165X13089X |
| 25 | | | 55 | 47 | | 10.5 | | 165X13099X |
| 37 | | | 71.3 | 51 | | 11 | | 165X13109X |
| 50 | | | 69 | 50 | 20 | 12.5 | | 165X13119X |



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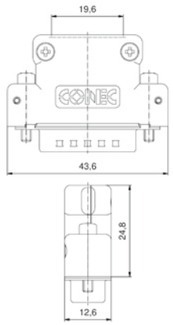
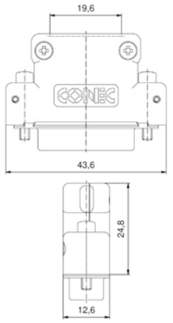
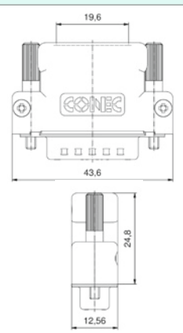
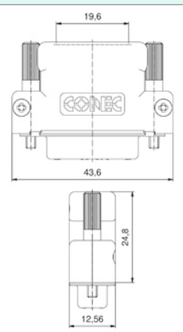
# D-SUB Hoods and Accessories

## D-SUB Plastic Hoods
## With integrated crimp connector 7W2

*This hood can only be used in conjunction with the special connector.*
- *Integrated strain relief*

*On request:*
- *Available with bridged singal contacts*

| | No. of poles | Number of straight cable entries | Number of side cable entries | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| **Plastic black, short screws Philips** | | | | | |
|   | 7W2 | 1 | / | 13-000220 | 13-002780 |
| **Plastic black, short scews Inbus** | | | | | |
|   | 7W2 | 1 | / | 13-000210 | 13-002770 |
| **Plastic black, jack screws Philips** | | | | | |
|   | 7W2 | 1 | / | 13-000380 | 13-002760 |
| **Plastic black, jack screws Inbus** | | | | | |
|   | 7W2 | 1 | / | 13-000370 | 13-002750 |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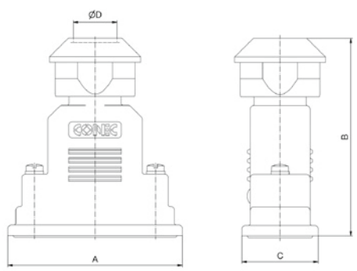
# D-SUB Hoods and Accessories

## IP67 D-SUB Plastic Hoods
## Straight cable entry

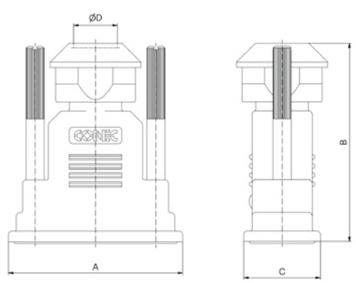
*Water resistant hood for Standard and Combination D-SUB connectors*
*For high power and coaxial contacts*
*Packaging: in pack units as a single package*

### Plastic black, 4-40 UNC short screws stainless steel




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 40 | 54.3 | 21 | 7 - 9 | 15-004710 |
| 15 | | | 48 | 54.6 | | 9 - 11 | 15-004720 |
| 25 | | | 62 | 67.7 | | 10 - 12 | 15-004730 |
| 37 | | | 78 | 77.2 | 25.2 | 14 - 16 | 15-004740 |
| 50 | | | 75.6 | | 23.8 | | 15-004750 |

### Plastic black, 4-40 UNC jack screws stainless steel




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 15 | 1 | / | 40 | 54.3 | 21 | 7 - 9 | 15-004670 |
| 25 | | | 62 | 67.7 | | 10 - 12 | 15-004680 |
| 37 | | | 78 | 77.2 | 25.2 | 14 - 16 | 15-004690 |
| 50 | | | 75.6 | | 23.8 | | 15-004700 |



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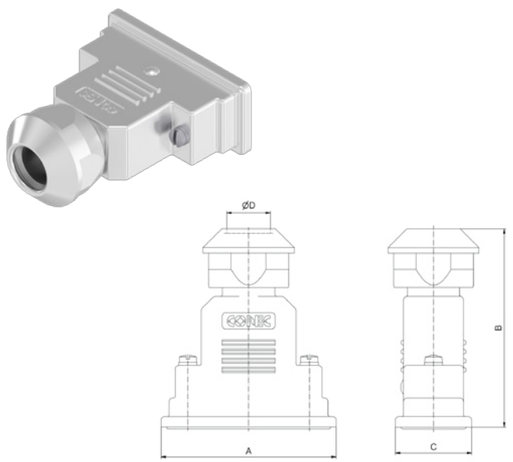
## IP67 D-SUB Plastic Hoods
## Straight cable entry

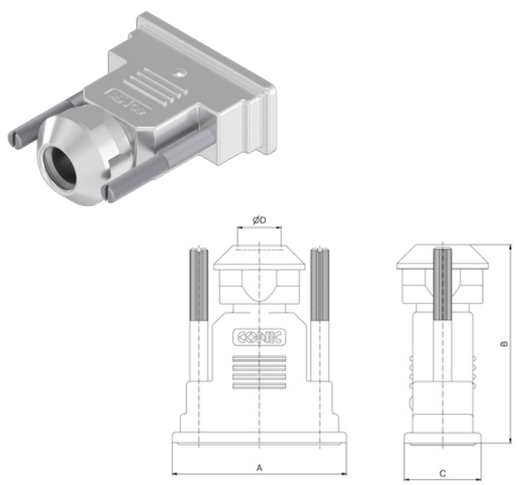
*Water resistant hood for Standard and Combination D-SUB connectors*
*For high power and coaxial contacts*
*Packaging: in pack units as a single package*

### Plastic metallized, 4-40 UNC short screws stainless steel




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 40 | 54.3 | 21 | 7 - 9 | 15-004810 |
| 15 | | | 48 | 54.6 | | 9 - 11 | 15-004820 |
| 25 | | | 62 | 67.7 | | 10 - 12 | 15-004830 |
| 37 | | | 78 | 77.2 | 25.2 | 14 - 16 | 15-004840 |
| 50 | | | 75.6 | | 23.8 | | 15-004850 |

### Plastic metallized, 4-40 UNC jack screws stainless steel




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 15 | 1 | / | 40 | 54.3 | 21 | 7 - 9 | 15-004770 |
| 25 | | | 62 | 67.7 | | 10 - 12 | 15-004780 |
| 37 | | | 78 | 77.2 | 25.2 | 14 - 16 | 15-004790 |
| 50 | | | 75.6 | | 23.8 | | 15-004800 |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# D-SUB Hoods and Accessories

## IP67 D-SUB Plastic Hoods, large internal space
## Straight cable entry

*Water resistant hood for Standard and Combination D-SUB connectors*
*Large internal space for crimp, high power and coaxial contacts*
*Accessories: Protection cap and Outside sealing made from TPE*
*On request:*
- *M3 thread*

### Plastic black, 4-40 UNC jack screws

| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 40.76 | 77 | 22 | 5 - 10 | E202784 | 165X14819X |
| 15 | | | 49.06 | 79 | | 6 - 12 | | 165X14829X |
| 25 | | | 62.8 | 87.5 | | | | 165X14839X |
| 37 | | | 78.86 | 99 | | 9 - 16 | | 165X14849X |
| 50 | | | 76.46 | 107 | 24.8 | 13 - 20 | | 165X14859X |

### Plastic black, 4-40 UNC short screws

| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | Part No. |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 40.76 | 77 | 22 | 5 - 10 | E202784 | 165X14869X |
| 15 | | | 49.06 | 79 | | 6 - 12 | | 165X14879X |
| 25 | | | 62.8 | 87.5 | | | | 165X14889X |
| 37 | | | 78.86 | 99 | | 9 - 16 | | 165X14899X |
| 50 | | | 76.46 | 107 | 24.8 | 13 - 20 | | 165X14909X |



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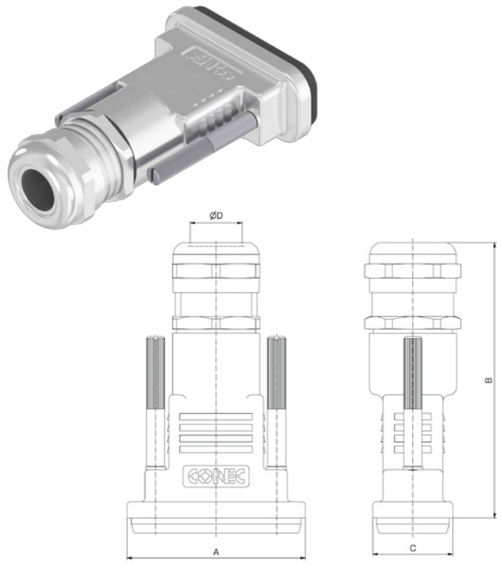
# D-SUB Hoods and Accessories

## IP67 D-SUB Plastic Hoods, large internal space
## Straight cable entry

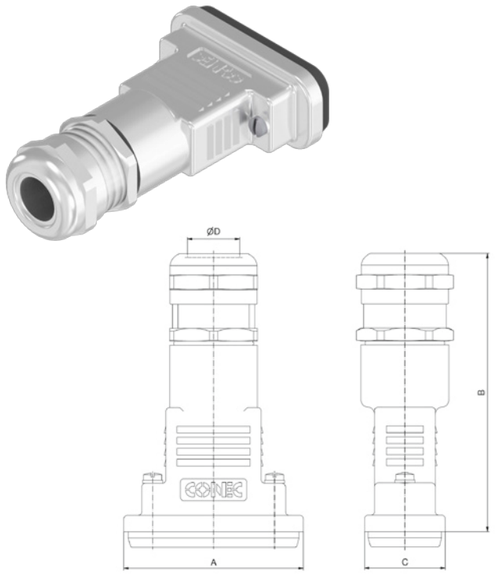
*Water resistant hood for Standard and Combination D-SUB connectors*
*Large internal space for crimp, high power and coaxial contacts*
*Accessories: Protection cap and Outside sealing made from TPE*
*On request:*
- *M3 thread*

### Plastic metallized, 4-40 UNC jack screws




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 40.76 | 77 | 22 | 5 - 10 | E202784 | 165X15019X |
| 15 | | | 49.06 | 79 | | 7 - 12 | | 165X15029X |
| 25 | | | 62.8 | 87.5 | | | | 165X15039X |
| 37 | | | 78.86 | 99 | | 9 - 16 | | 165X15049X |
| 50 | | | 76.46 | 107 | 24.8 | 13 - 20 | | 165X15059X |

### Plastic metallized, 4-40 UNC short screws




| No. of poles | Number of straight cable entries | Number of side cable entries | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | UL-File | |
|---|---|---|---|---|---|---|---|---|
| 09 | 1 | / | 40.76 | 77 | 22 | 5 - 10 | E202784 | 165X15069X |
| 15 | | | 49.06 | 79 | | 7 - 12 | | 165X15079X |
| 25 | | | 62.8 | 87.5 | | | | 165X15089X |
| 37 | | | 78.86 | 99 | | 9 - 16 | | 165X15099X |
| 50 | | | 76.46 | 107 | 24.8 | 13 - 20 | | 165X15109X |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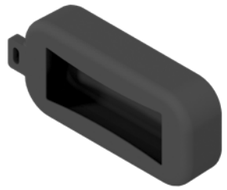
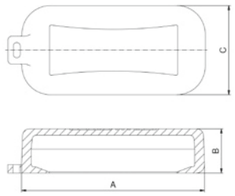
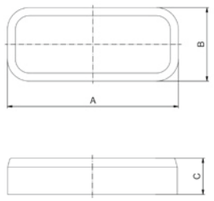
## IP67 D-SUB Plastic Hoods, large internal space
## Straight cable entry

### Protection cap


| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | UL-File | Part No. |
|---|---|---|---|---|---|
| 09 | 44.56 | 12.6 | 25.6 | E202784 | 165X17509X |
| 15 | 52.86 | | | | 165X17519X |
| 25 | 66.6 | | | | 165X17529X |
| 37 | 82.66 | | | | 165X17539X |
| 50 | 80.26 | | 28.4 | | 165X17549X |

### Outside sealing



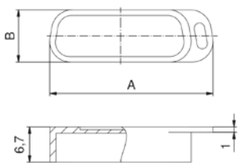

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | UL-File | Part No. |
|---|---|---|---|---|---|
| 09 | 38.36 | 20 | 9.9 | E202784 | 795-305420 |
| 15 | 46.66 | | | | 795-305490 |
| 25 | 60.4 | | | | 795-305580 |
| 37 | 76.86 | | | | 795-305640 |
| 50 | 74.5 | 22.8 | | | 795-305710 |



## D-SUB protection caps
## Plastic design, for socket connector

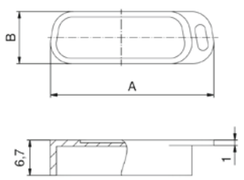
*Dust cap protecting connector mounting area*
*Temperature range: -35 °C... +85 °C*

### Plastic black




| No. of poles | Measure A [mm] | Measure B [mm] | Part No. |
|---|---|---|---|
| 09 | 22.9 | 10 | 160X10449X |
| 15 | 31.4 | | 160X10459X |
| 25 | 44.7 | | 160X10469X |
| 37 | 61.2 | | 160X10479X |
| 50 | 58.8 | 12.8 | 160X10959X |

### Plastic metallized




| No. of poles | Measure A [mm] | Measure B [mm] | Part No. |
|---|---|---|---|
| 09 | 22.9 | 11 | 600X518009X |
| 15 | 31.4 | | 600X518015X |
| 25 | 44.7 | | 600X518025X |
| 37 | 61.2 | | 600X518037X |
| 50 | 58.8 | 13.7 | 600X518050X |



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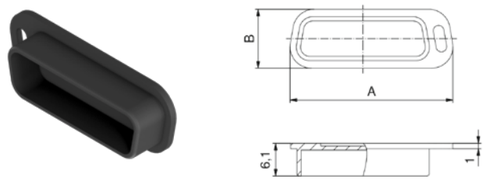
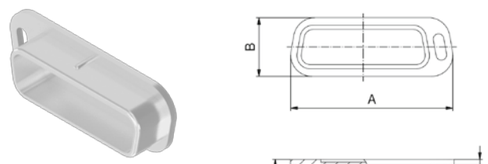
# D-SUB Hoods and Accessories

## D-SUB protection caps
## Plastic design, for plug connector

*Dust cap protecting connector mounting area*
*Temperature range: -35 °C... +85 °C*

| | No. of poles | Measure A [mm] | Measure B [mm] | Part No. |
|---|---|---|---|---|
| **Plastic black** | | | | |
|   | 09 | 22.5 | 10 | 160X10409X |
| | 15 | 30.65 | | 160X10419X |
| | 25 | 44.4 | | 160X10429X |
| | 37 | 60.75 | | 160X10439X |
| | 50 | 58.15 | 12.8 | 160X10969X |
| **Plastic metallized** | | | | |
|   | 09 | 22.5 | 11 | 600X517009X |
| | 15 | 30.65 | | 600X517015X |
| | 25 | 44.4 | | 600X517025X |
| | 37 | 60.75 | | 600X517037X |
| | 50 | 58.15 | 13.7 | 600X517050X |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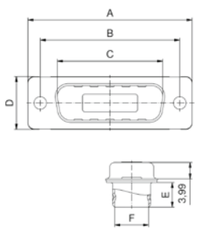
## D-SUB Hoods and Accessories

### D-SUB shielded cap
### Metall design, shielded, for socket connector

*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*

Through-hole Ø 3 mm



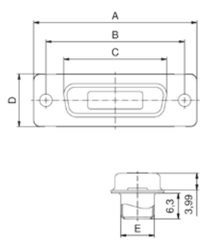

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Measure F [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.79 | 12.93 | 6.12 | 8.23 | 165X12969X |
| 15 | 39.52 | 33.3 | 25.12 | | | | 165X12979X |
| 25 | 53.42 | 47.04 | 38.84 | | 5.99 | | 165X12989X |
| 37 | 69.7 | 63.5 | 55.3 | | | | 165X12999X |
| 50 | 67.31 | 61.1 | 52.68 | 15.75 | | 10.95 | 165X13009X |

## D-SUB Hoods and Accessories

### D-SUB shielded cap
### Metall design, shielded, for plug connector

*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*

Through-hole Ø 3 mm



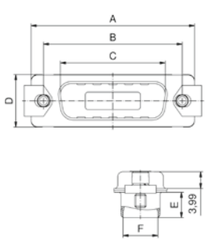

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.46 | 12.93 | 8.02 | 165X13129X |
| 15 | 39.52 | 33.3 | 24.79 | | | 165X13139X |
| 25 | 53.42 | 47.04 | 38.5 | | | 165X13149X |
| 37 | 69.7 | 63.5 | 54.96 | | | 165X13159X |
| 50 | 67.31 | 61.1 | 52.55 | 15.75 | 10.87 | 165X13169X |

## D-SUB Hoods and Accessories

### D-SUB shielded cap
### Metall design, shielded, for socket connector

*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*

4-40 UNC screws and clip




| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Measure F [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.79 | 12.93 | 6.12 | 8.23 | 165X16719X |
| 15 | 39.52 | 33.3 | 25.12 | | | | 165X16729X |
| 25 | 53.42 | 47.04 | 38.84 | | 5.99 | | 165X16739X |
| 37 | 69.7 | 63.5 | 55.3 | | | | 165X16749X |
| 50 | 67.31 | 61.1 | 52.68 | 15.75 | | 10.95 | 165X16759X |



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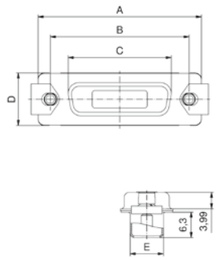
## D-SUB Hoods and Accessories

### D-SUB shielded cap
### Metall design, shielded, for plug connector

4-40 UNC screws and clip



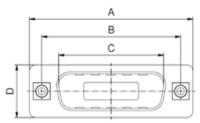

*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*

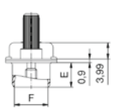
| *No. of poles* | *Measure A [mm]* | *Measure B [mm]* | *Measure C [mm]* | *Measure D [mm]* | *Measure E [mm]* | *Part No.* |
|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.46 | 12.93 | 8.02 | 165X16769X |
| 15 | 39.52 | 33.3 | 24.79 | | | 165X16779X |
| 25 | 53.42 | 47.04 | 38.5 | | | 165X16789X |
| 37 | 69.7 | 63.5 | 54.96 | | | 165X16799X |
| 50 | 67.31 | 61.1 | 52.55 | 15.75 | 10.87 | 165X16809X |

## D-SUB Hoods and Accessories

### D-SUB shielded cap
### Metall design, shielded, for socket connector

4-40 UNC jack screws



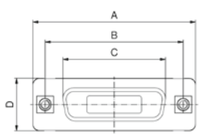

*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*
*On request:*
*• M3 thread*

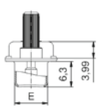
| *No. of poles* | *Measure A [mm]* | *Measure B [mm]* | *Measure C [mm]* | *Measure D [mm]* | *Measure E [mm]* | *Measure F [mm]* | *Part No.* |
|---|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.79 | 12.93 | 6.12 | 8.23 | 165X16909X |
| 15 | 39.52 | 33.3 | 25.12 | | | | 165X16919X |
| 25 | 53.42 | 47.04 | 38.84 | | 5.99 | | 165X16929X |
| 37 | 69.7 | 63.5 | 55.3 | | | | 165X16939X |
| 50 | 67.31 | 61.1 | 52.68 | 15.75 | | 10.95 | 165X16949X |

## D-SUB Hoods and Accessories

### D-SUB shielded cap
### Metall design, shielded, for plug connector

4-40 UNC jack screws




*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*
*On request:*
*• M3 thread*

| *No. of poles* | *Measure A [mm]* | *Measure B [mm]* | *Measure C [mm]* | *Measure D [mm]* | *Measure E [mm]* | *Part No.* |
|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.79 | 12.93 | 8.02 | 165X17009X |
| 15 | 39.52 | 33.3 | 25.12 | | | 165X17019X |
| 25 | 53.42 | 47.04 | 38.84 | | | 165X17029X |
| 37 | 69.7 | 63.5 | 55.3 | | | 165X17039X |
| 50 | 67.31 | 61.1 | 52.68 | 15.75 | 10.87 | 165X17049X |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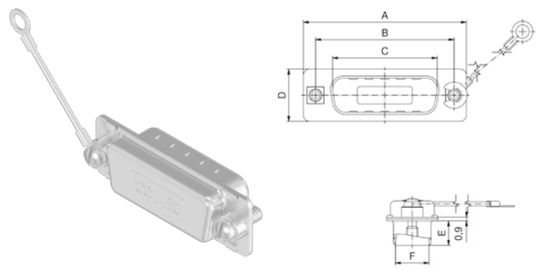
## D-SUB Hoods and Accessories

### D-SUB shielded cap with lanyard
### Metall design, shielded, for socket connector

4-40 UNC screws

*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*
*On request:*
- *M3 thread*



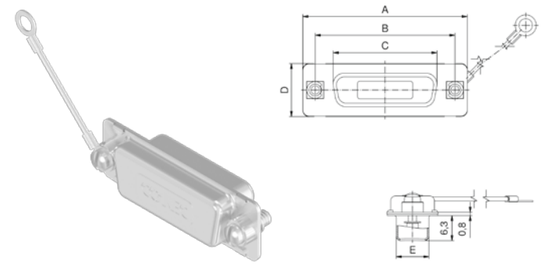

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Measure F [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.46 | 12.6 | 6.12 | 8.26 | 16-001050 |
| 15 | 39.52 | 33.3 | 24.79 | | | | 16-001060 |
| 25 | 53.42 | 47.04 | 38.5 | | 5.99 | | 16-001070 |
| 37 | 69.7 | 63.5 | 54.96 | | | | 16-001080 |
| 50 | 67 | 61.11 | 52.5 | 15.38 | 6.12 | 11.07 | 16-001090 |

## D-SUB Hoods and Accessories

### D-SUB shielded cap with lanyard
### Metall design, shielded, for plug connector

4-40 UNC screws

*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*
*On request:*
- *M3 thread*



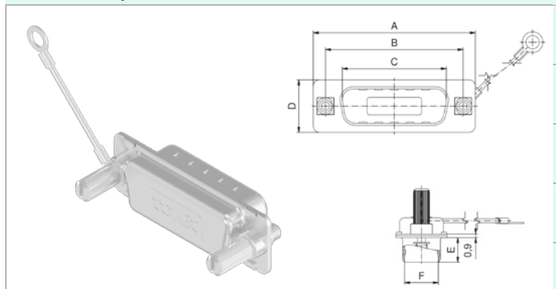

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.79 | 12.6 | 8 | 16-001150 |
| 15 | 39.52 | 33.3 | 25.12 | | | 16-001160 |
| 25 | 53.42 | 47.04 | 38.84 | | | 16-001170 |
| 37 | 69.7 | 63.5 | 55.3 | | | 16-001180 |
| 50 | 67 | 61.11 | 52.81 | 15.38 | 10.81 | 16-001190 |

## D-SUB Hoods and Accessories

### D-SUB shielded cap with lanyard
### Metall design, shielded, for socket connector

4-40 UNC steel jack screws

*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*
*On request:*
- *M3 thread*




| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Measure F [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.46 | 12.6 | 6.12 | 8.26 | 16-000840 |
| 15 | 39.52 | 33.3 | 24.79 | | | | 16-000850 |
| 25 | 53.42 | 47.04 | 38.5 | | 5.99 | | 16-000860 |
| 37 | 69.7 | 63.5 | 54.96 | | | | 16-000870 |
| 50 | 67 | 61.11 | 52.5 | 15.38 | 6.12 | 11.07 | 16-000890 |



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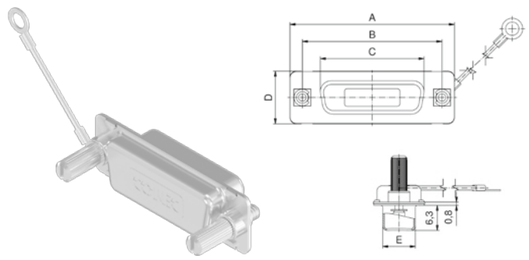
## D-SUB Hoods and Accessories

### D-SUB shielded cap with lanyard
### Metall design, shielded, for plug connector

4-40 UNC steel jack screws

*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*
*On request:*
- *M3 thread*



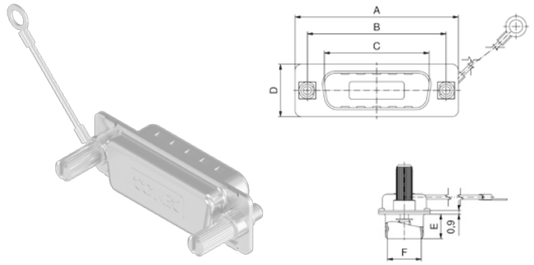

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.79 | 12.6 | 8 | 16-000950 |
| 15 | 39.52 | 33.3 | 25.12 | | | 16-000960 |
| 25 | 53.42 | 47.04 | 38.84 | | | 16-000970 |
| 37 | 69.7 | 63.5 | 55.3 | | | 16-000980 |
| 50 | 67 | 61.11 | 52.81 | 15.38 | 10.81 | 16-000990 |

## D-SUB Hoods and Accessories

### D-SUB shielded cap with lanyard
### Metall design, shielded, for socket connector

4-40 UNC stainless steel jack screws

*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*
*On request:*
- *M3 thread*



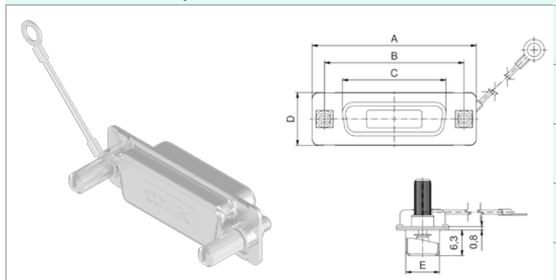

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Measure F [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.46 | 12.6 | 6.12 | 8.26 | 16-000280 |
| 15 | 39.52 | 33.3 | 24.79 | | | | 16-000290 |
| 25 | 53.42 | 47.04 | 38.5 | | 5.99 | | 16-000300 |
| 37 | 69.7 | 63.5 | 54.96 | | | | 16-000310 |
| 50 | 67 | 61.11 | 52.5 | 15.38 | 6.12 | 11.07 | 16-000320 |

## D-SUB Hoods and Accessories

### D-SUB shielded cap with lanyard
### Metall design, shielded, for plug connector

4-40 UNC stainless steel jack screws

*Shielded cap protecting against EMI/RFI*
*Shell: steel tin plated*
*On request:*
- *M3 thread*




| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.79 | 12.6 | 8 | 16-000380 |
| 15 | 39.52 | 33.3 | 25.12 | | | 16-000390 |
| 25 | 53.42 | 47.04 | 38.84 | | | 16-000400 |
| 37 | 69.7 | 63.5 | 55.3 | | | 16-000410 |
| 50 | 67 | 61.11 | 52.81 | 15.38 | 10.81 | 16-000420 |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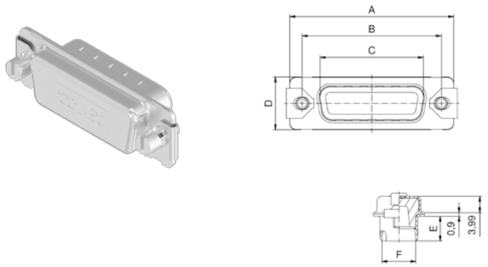
## D-SUB Hoods and Accessories

### IP67 D-SUB protection cap with gasket
### Metall design, shielded, for socket connector

4-40 UNC screws and clip

*IP67 Protection cap with gasket*
*Protection against EMI/RFI*
*Shell: steel tin plated*
*On request:*
- *M3 thread*



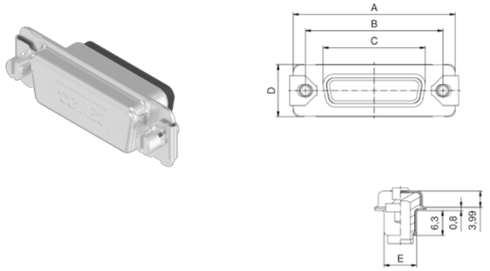

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Measure F [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.79 | 12.93 | 6.12 | 8.23 | 165X14719X |
| 15 | 39.52 | 33.3 | 25.12 | | | | 165X14729X |
| 25 | 53.42 | 47.04 | 38.84 | | 5.99 | | 165X14739X |
| 37 | 69.7 | 63.5 | 55.3 | | | | 165X14749X |
| 50 | 67.31 | 61.1 | 52.68 | 15.75 | | 10.95 | 165X14759X |

## D-SUB Hoods and Accessories

### IP67 D-SUB protection cap with gasket
### Metall design, shielded, for plug connector

4-40 UNC screws and clip

*IP67 Protection cap with gasket*
*Protection against EMI/RFI*
*Shell: steel tin plated*
*On request:*
- *M3 thread*



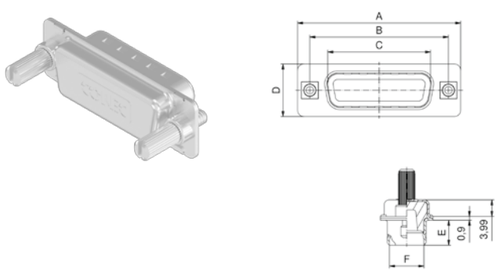

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.46 | 12.93 | 8.02 | 165X14769X |
| 15 | 39.52 | 33.3 | 24.79 | | | 165X14779X |
| 25 | 53.42 | 47.04 | 38.5 | | | 165X14789X |
| 37 | 69.7 | 63.5 | 54.96 | | | 165X14799X |
| 50 | 67.31 | 61.11 | 52.55 | 15.75 | 10.87 | 165X14809X |

## D-SUB Hoods and Accessories

### IP67 D-SUB protection cap with gasket
### Metall design, shielded, for socket connector

4-40 UNC jack screws

*IP67 Protection cap with gasket*
*Protection against EMI/RFI*
*Shell: brass tin plated*
*Jack screws: stainless steel*
*On request:*
- *M3 thread*




| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Measure F [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.79 | 12.93 | 6.12 | 8.23 | 165X17109X |
| 15 | 39.52 | 33.3 | 25.12 | | | | 165X17119X |
| 25 | 53.42 | 47.04 | 36.84 | | 5.99 | | 165X17129X |
| 37 | 69.7 | 63.5 | 55.3 | | | | 165X17139X |
| 50 | 67.31 | 61.1 | 52.68 | 15.75 | | 10.95 | 165X17149X |



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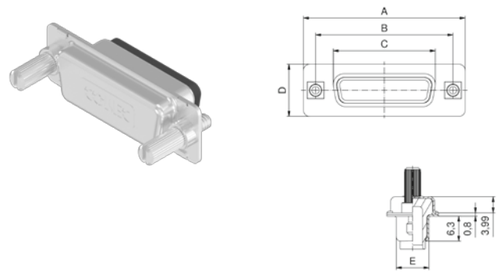
## D-SUB Hoods and Accessories

### IP67 D-SUB protection cap with gasket
### Metall design, shielded, for plug connector

*IP67 Protection cap with gasket*
*Protection against EMI/RFI*
*Shell: brass tin plated*
*Jack screws: stainless steel*
*On request:*
- *M3 thread*

4-40 UNC jack screws



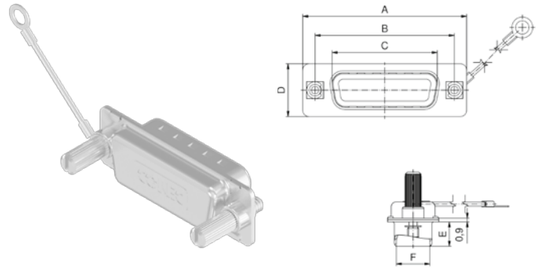

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.46 | 12.93 | 8.02 | 165X17209X |
| 15 | 39.52 | 33.3 | 24.79 | | | 165X17219X |
| 25 | 53.42 | 47.04 | 38.5 | | | 165X17229X |
| 37 | 69.7 | 63.5 | 54.96 | | | 165X17239X |
| 50 | 67.31 | 61.1 | 52.55 | 15.75 | 10.87 | 165X17249X |

## D-SUB Hoods and Accessories

### IP67 D-SUB protection cap with gasket and lanyard
### Metall design, shielded, for socket connector

*IP67 Protection cap with gasket*
*Protection against EMI/RFI*
*Shell: brass tin plated*
*Lanyard: stainless steel*
*Jack screws: stainless steel*
*On request:*
- *M3 thread*

4-40 UNC jack screws stainless steel



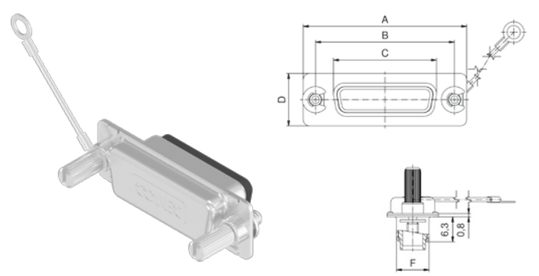

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Measure F [mm] | Part No. |
|---|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.46 | 12.6 | 6.12 | 8.26 | 15-000010 |
| 15 | 39.52 | 33.3 | 24.79 | | | | 15-000020 |
| 25 | 53.42 | 47.04 | 38.5 | | 5.99 | | 15-000030 |
| 37 | 69.7 | 63.5 | 54.96 | | | | 15-000040 |
| 50 | 67 | 61.11 | 52.5 | 15.38 | 6.12 | 11.07 | 15-000050 |

## D-SUB Hoods and Accessories

### IP67 D-SUB protection cap with gasket and lanyard
### Metall design, shielded, for plug connector

*IP67 Protection cap with gasket*
*Protection against EMI/RFI*
*Shell: brass tin plated*
*Lanyard: stainless steel*
*Jack screws: stainless steel*
*On request:*
- *M3 thread*

4-40 UNC jack screws stainless steel




| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 31.19 | 25 | 16.79 | 12.6 | 8 | 15-000110 |
| 15 | 39.52 | 33.3 | 25.12 | | | 15-000120 |
| 25 | 53.42 | 47.04 | 38.84 | | | 15-000130 |
| 37 | 69.7 | 63.5 | 55.3 | | | 15-000140 |
| 50 | 67 | 61.11 | 52.81 | 15.38 | 10.81 | 15-000150 |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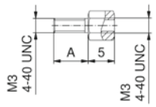
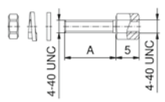
## D-SUB Hardware accessories

### Single hex bolts packaging unit 200 pieces



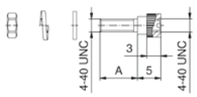

| Length A [mm] | Internal thread | External thread | Part No. |
|---|---|---|---|
| 6.5 | 4-40 UNC | 4-40 UNC | 740-353770 |
| 8.0 | | | 740-331370 |
| 11.0 | | | 740-331570 |
| 13.0 | | | 740-331870 |
| 14.0 | | | 740-331670 |
| 4.0 | M3 | M3 | 740-354470 |
| 7.0 | | | 740-320570 |
| 8.0 | | | 740-342470 |
| 13.0 | | | 740-365270 |
| 4.0 | 4-40 UNC | | 740-354370 |
| 7.0 | | | 740-320170 |
| 13.0 | | | 740-344970 |

### Single hex bolts set packaging unit 100 pieces




| Length A [mm] | Internal thread | External thread | Part No. |
|---|---|---|---|
| 8.0 | 4-40 UNC | 4-40 UNC | 160X10359X |
| 14.0 | | | 160X10639X |
| 8.0 | M3 | M3 | 160X10529X |

### Screw locking set packaging unit 100 pieces




| Length A [mm] | Internal thread | External thread | Part No. |
|---|---|---|---|
| 8.0 | 4-40 UNC | 4-40 UNC | 160X10329X |



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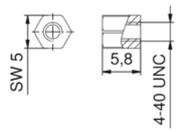
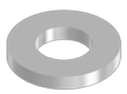
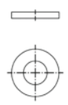
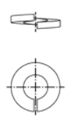
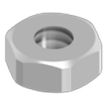
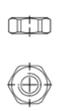
## D-SUB Hardware accessories

| | | Internal thread | Part No. |
|---|---|---|---|
| **Hex bolt nut .228" 5.8 mm** | | | |
| |   | 4-40 UNC | 160X10379X |
| **Flat washer** | | | |
|  |  | | 765-329670 |
| **Spring ring** | | | |
| |  | | 765-329570 |
| **Nut** | | | |
|  |  | 4-40 UNC | 765-329770 |
| | | M3 | 765-329870 |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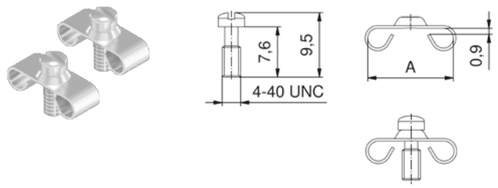
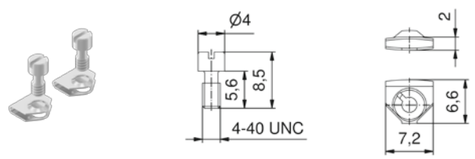
## D-SUB Hoods and Accessories

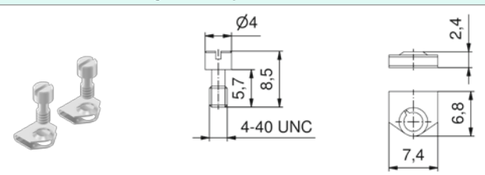
### D-SUB Hardware accessories

| Set 4-40 UNC Screw locking with clamp | No. of poles | Material | Measure A [mm] | Part No. |
|---|---|---|---|---|
|   | 09-37 | steel | 13.3 | 160X10259X |
| | 50 | | 15.9 | 160X10659X |

## D-SUB Hoods and Accessories

### D-SUB Hardware accessories

| Set 4-40 UNC Screw locking with clamp | No. of poles | Material | Part No. |
|---|---|---|---|
|   | 09-50 | stainless steel | 160X00470A |

| Set 4-40 UNC Screw locking with clamp | | | |
|---|---|---|---|
|   | 09-50 | brass | 16-505750 |



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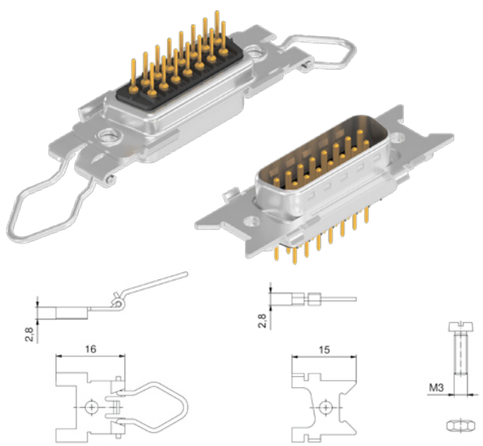
# D-SUB Hoods and Accessories

## D-SUB Hardware accessories

*Set spring locking:*
- *2 spring clips*
- *2 wire clamp holders*
- *2 clamps*
- *4 M3 screws*
- *4 M3 nuts*

### Set spring locking




Assembly Example

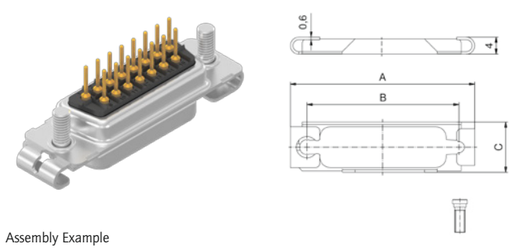
| No. of poles | Material | Part No. |
|---|---|---|
| 09-37 | steel | 160X10239X |

# D-SUB Hoods and Accessories

## D-SUB Hardware accessories

*Slide lock Type 3*
*(for direct assembly to connector)*
- *1 frame*
- *2 self threading screws for plastic and metal*

### Set Slide lock Type 3




Assembly Example

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Part No. |
|---|---|---|---|---|
| 09 | 35 | 27.4 | 12 | 160X10159X |
| 15 | 43.3 | 35.7 | 11.5 | 160X10169X |
| 25 | 57 | 49.4 | 12 | 160X10179X |
| 37 | 74.4 | 65.9 | | 160X10189X |
| 50 | 72 | 63.5 | 15 | 160X10199X |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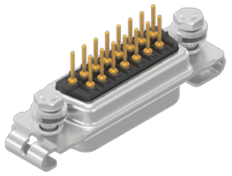
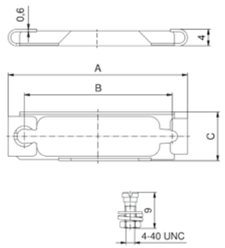
## D-SUB Hoods and Accessories

### D-SUB Hardware accessories

*Slide lock Type 4 (for hood assembly)*
- *1 frame*
- *2 4-40 UNC screws*
- *2 flat washers*
- *2 spring rings*
- *2 4-40 UNC nuts*

**Set Slide lock Type 4**






Assembly Example

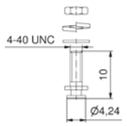
| *No. of poles* | *Measure A [mm]* | *Measure B [mm]* | *Measure C [mm]* | *Part No.* |
|---|---|---|---|---|
| 09 | 35 | 27.4 | 12 | 160X10689X |
| 15 | 43.3 | 35.7 | 11.5 | 160X10699X |
| 25 | 57 | 49.4 | 12 | 160X10709X |
| 37 | 74.4 | 65.9 | | 160X10719X |
| 50 | 72 | 63.5 | 15 | 160X10729X |

## D-SUB Hoods and Accessories

### D-SUB Hardware accessories

*Holding bolt set:*
- *2 hex bolts*
- *2 flat washers*
- *2 spring rings*
- *2 nuts*

**Set Holding bolt for slide lock type 3 + 4**




| *No. of poles* | *Part No.* |
|---|---|
| 09-50 | 160X10209X |



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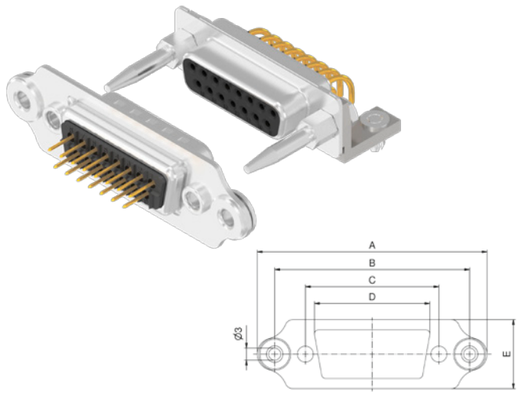
# D-SUB Hoods and Accessories

## D-SUB Hardware accessories

*Blind mating - Plug-in system:*
*Material: Steel nickel plated*
- *Mounting for mating applications consist of frame and float mount*
- *Frame is factory assembled*

### Blind mating frame



Assembly Example

| No. of poles | Measure A [mm] | Measure B [mm] | Measure C [mm] | Measure D [mm] | Measure E [mm] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 49.02 | 40.28 | 24.99 | 20.2 | 17.2 | 160X10889X |
| 15 | 57.35 | 48.62 | 33.32 | 28.8 | | 160X10899X |
| 25 | 71.25 | 62.51 | 47.04 | 42.5 | | 160X10909X |
| 37 | 87.53 | 78.79 | 63.5 | 59.1 | | 160X10919X |
| 50 | 85.14 | 76.4 | 61.11 | 56.3 | 20.04 | 160X10929X |

# D-SUB Hoods and Accessories

## D-SUB Hardware accessories

*Blind mating - Plug-in system guide pin*
*Material: Steel nickel plated*

### Blind mating guide posts

| No. of poles | Part No. |
|---|---|
| 09-50 | 160X10949X |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Section 6

# IP67 D-SUB Connectors

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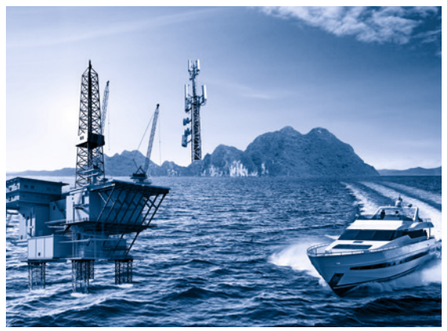

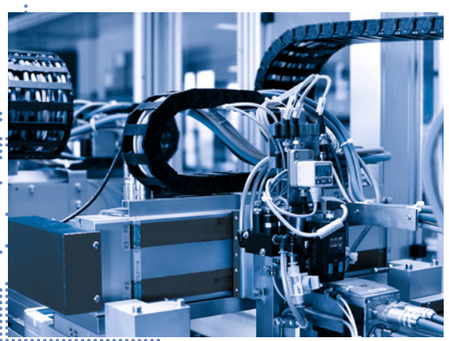

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## Part Number Creator

6 S T D 0 9 S A M 9 9 B 3 O X

**Product Line**
6 = Shell brass tin plated with die-cast frame
4 = Shell brass tin plated with plastic frame or without frame
8* = Shell stainless steel with or without die-cast frame
8* = Shell stainless steel with plastic frame
*on request

**Variations**
STD = D-SUB-Standard
HDD = D-SUB-High Density

| Position for STD | | Position for HDD | |
|---|---|---|---|
| 09 | = 9-pos. | 15 | = 15-pos. |
| 15 | = 15-pos. | 26 | = 26-pos. |
| 25 | = 25-pos. | 44 | = 44-pos. |
| 37 | = 37-pos. | 62 | = 62-pos. |
| 50 | = 50-pos. | 78 | = 78-pos. |

**Contact type**
P = Plug connector
S = Socket connector
A = Adapter

**Quality class for contacts**
A = Quality class 3 = 50 mating cycles
B = Quality class 2 = 200 mating cycles
C = Quality class 1 = 500 mating cycles

**Termination**
M = Solder cup 10 A
R = Solder pin, straight
T = Solder pin, angled, .189"/ 4.80 mm
U = Solder pin, angled, .189"/ 7.00 mm
Z = Solder pin, angled, .189"/11.80 mm
Y = Solder pin, angled, .189"/ 5.60 mm (high density design only)
A = Adapter

**Capacitance**
99 = Without filter for STD and HDD

**Mounting style**
A1 = Riveted for wire assembly shell without sealing frame
B3 = 4-40 UNC threaded insert
B5 = 4-40 UNC front spacer
B7 = 4-40 UNC front spacer and rear mounting stud
B9 = 4-40 UNC front spacer for adapter
E2 = 4-40 UNC Threaded rear spacer with PCB clip, PCB 1.60 mm
S2 = Metal bracket, 4-40 UNC threaded insert
S4 = Metal bracket, 4-40 UNC threaded insert and PCB clip
R2 = Metal bracket, 4-40 UNC threaded insert
R4 = Metal bracket, 4-40 UNC threaded insert and PCB clip

OX = Standard


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# IP67 Combination D-SUB Connectors

## Product specification

| Basic material | D-SUB | | | D-SUB High Density | | |
|---|---|---|---|---|---|---|
| | SlimCon | Solid Body | Standard | SlimCon | Solid Body | Standard |
| Number of poles | 9 - 25 pos. | 9 - 50 pos. | | 15 - 44 pos. | 15 - 78 pos. | |
| Contact | Copper alloy | | | | | |
| Contact plating | Gold over nickel | | | | | |
| Insulator | PBT GF UL 94 V-O | | | | | |
| One-piece shell<br>Zinc die-cast nickel plated | ✓ | ✓ | | ✓ | ✓ | |
| Shell<br>Brass tin plated<br>(Stainless steel on request) | | | ✓ | | | ✓ |
| **Technical data** | | | | | | |
| Test voltage | 1000 V, 50 Hz, for 1 minute | | | | | |
| Working voltage | 125 V AC/DC | | | 60 V AC/DC | | |
| | depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1 | | | | | |
| Current rating | 7.5 A (UL) / 5 A (CSA, VDE) | | | 3 A (UL) / 2.5 A (CSA, VDE) | | |
| Contact resistance | max. 10 mΩ prior to stressing ΔR max. 10 mΩ after stressing per IEC 60807-2 | | | | | |
| Insulation resistance | ≥ 5 GΩ | | | | | |
| Clearance and creepage distance | Contact - Contact ≥ 1.0 mm /0.04"<br>Contact - earth ≥ 1.2 mm /0.047" | | | ≥ 0.6 mm / 0.024" | | |
| Operating temperature | -40 °C to +105 °C | | -25 °C to +105 °C | -40 °C to +105 °C | | -25 °C to +105 °C |
| Mounting style<br>Rear panel mounting/<br>Panel thickness | min. 0.8 mm to 1.3 mm | min. 1 mm to 1.6 mm | | min. 0.8 mm to 1.3 mm | min. 1 mm to 1.6 mm | |
| Mounting style<br>Front panel mounting | | | ✓ | | ✓ | |
| Mating and unmating forces | 9 pos. ≤ 30 N<br>15 pos. ≤ 50 N<br>25 pos. ≤ 30 N | 9 pos. ≤ 30 N<br>15 pos. ≤ 50 N<br>25 pos. ≤ 83 N<br>37 pos. ≤ 123 N<br>50 pos. ≤ 167 N | | 15 pos. ≤ 50 N<br>26 pos. ≤ 84 N<br>44 pos. ≤ 120 N | 15 pos. ≤ 50 N<br>26 pos. ≤ 84 N<br>44 pos. ≤ 120 N<br>62 pos. ≤ 170 N<br>78 pos. ≤ 200 N | |
| Quality class | A = Quality class 3 = 50 mating cycles<br>B = Quality class 2 = 200 mating cycles<br>C = Quality class 1 = 500 mating cycles | | | | | |

| Recommended wavesolder parameters | Preheating | | Solder termial dipping parameters | |
|---|---|---|---|---|
| | max. temperature | duration (max.) | max. Solder bath temperature | max. terminal immersion time |
| IP67 D-SUB CONEC SlimCon and Solid Body | 150 °C | 180 s | 265 °C | 8 s |
| IP67 D-SUB Standard | 120 °C | 120 s | 240 °C | 5 s |

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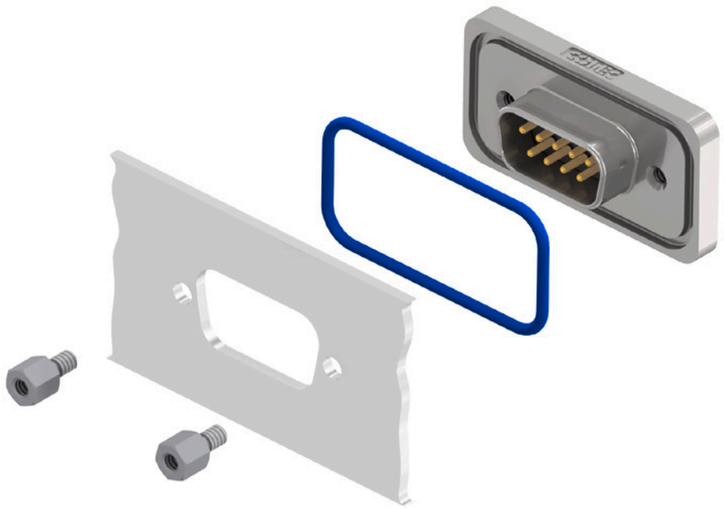
## Panel mounting

### Front panel mounting

### Back panel mounting



The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (standard & solid body)/.051"/1.3 mm (CONEC SlimCon) such that it does not extend beyond the plug-in height. Material: stainless steel.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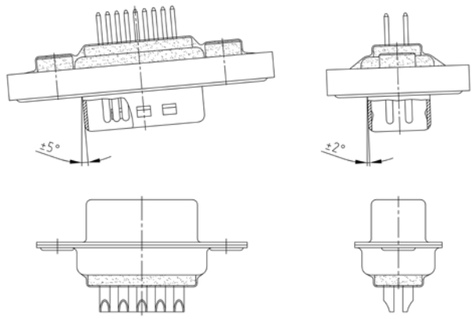
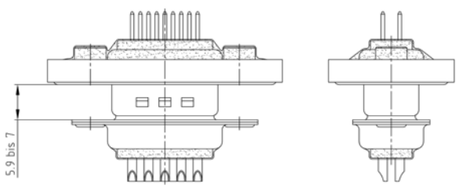
## Mating conditions

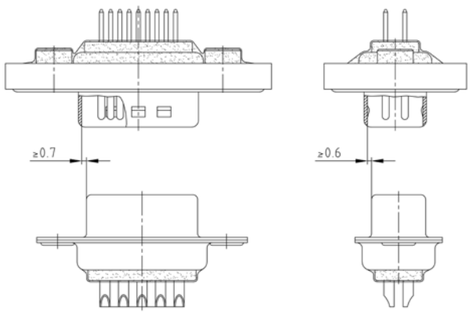
### Max. tilt angle for connector mating




### Range for safe contact

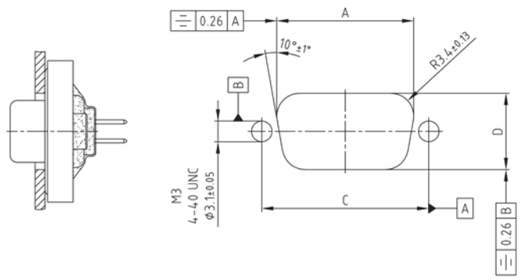



### Lock-in range

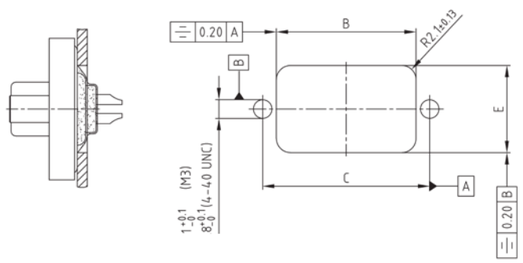



## Panel cut-out

### Back panel mounting




### Front panel mounting




| Shell size | A ±0.1 | B ±0.1 | C ±0.1 | D ±0.1 | E ±0.1 |
|---|---|---|---|---|---|
| 1 | 20.50 | 20.90 | 25.00 | 11.40 | 13.00 |
| 2 | 28.80 | 29.20 | 33.30 | 11.40 | 13.00 |
| 3 | 42.50 | 42.90 | 47.04 | 11.40 | 13.00 |
| 4 | 59.10 | 59.40 | 63.50 | 11.40 | 13.00 |
| 5 | 56.30 | 57.00 | 61.10 | 14.10 | 15.80 |

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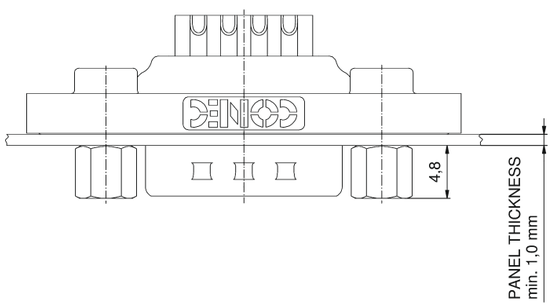
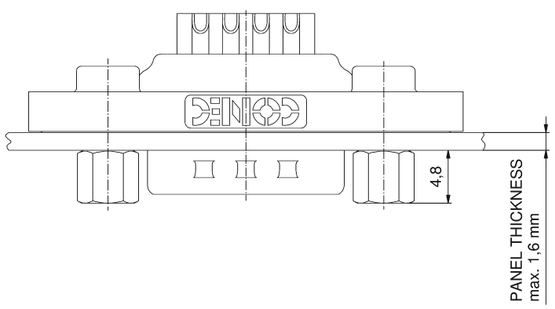
## Assembly for series Solid Body and Standard Rear Panel Mounting

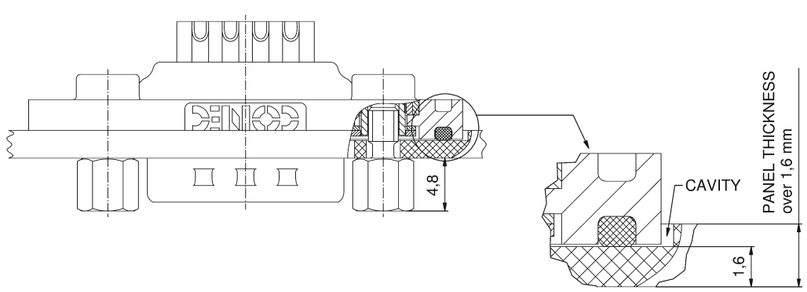
**Panel thickness min. 1.0 mm**




**Panel thickness max. 1.6 mm**




**Panel thickness over 1.6 mm**

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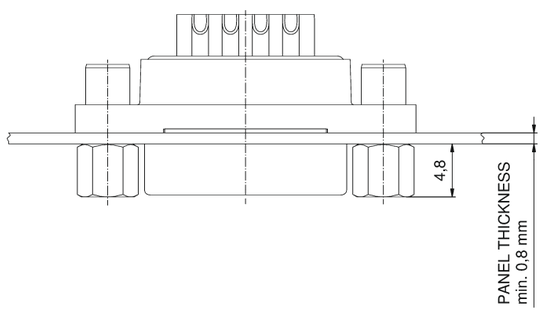
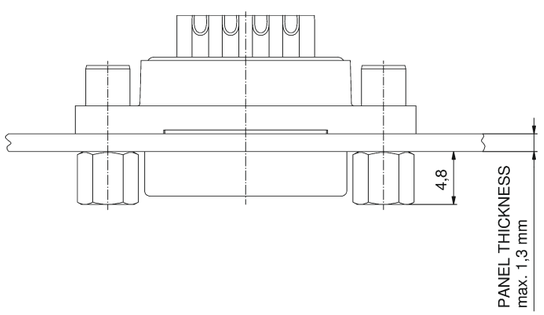
## Assembly for series CONEC SlimCon
## Rear Panel Mounting

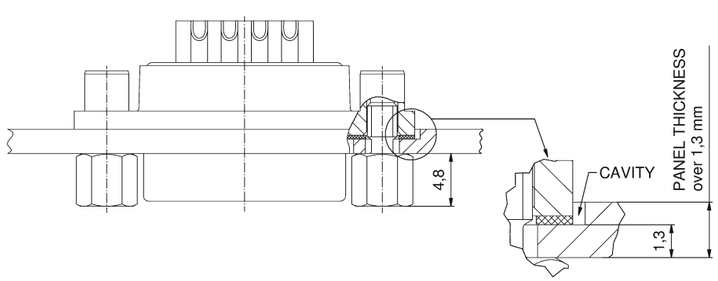
**Panel thickness min. 0.8 mm**




**Panel thickness max. 1.3 mm**




**Panel thickness over 1.3 mm**

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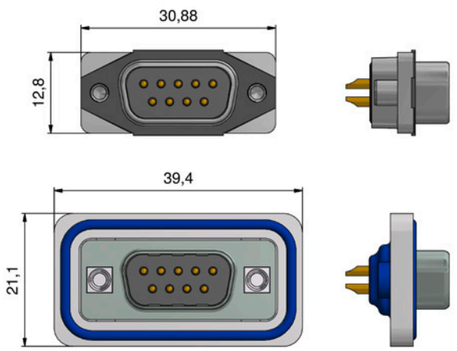
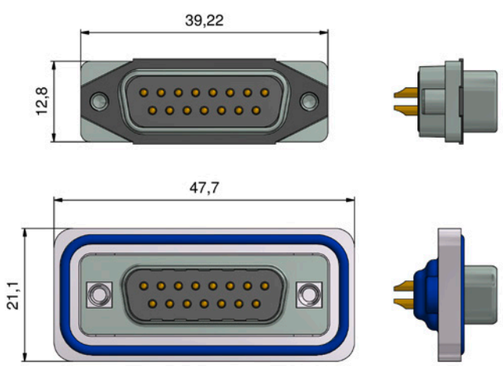
## Size comparison
## Series Standard/Solid Body versus series CONEC SlimCon

### Size 1



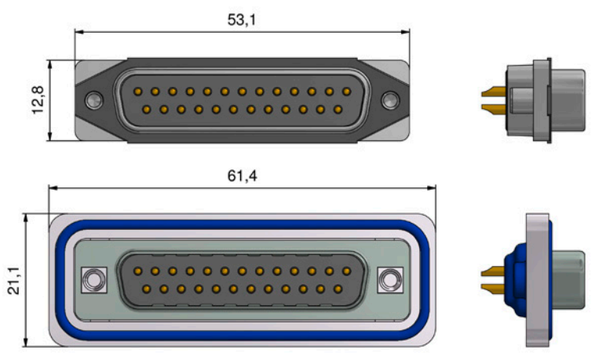

| IP67 D-SUB CONEC SlimCon | IP67 D-SUB Standard/ Solid Body | Space-saving | Reduction of mounting space |
|---|---|---|---|
| 30.88 mm | 39.4 mm | 8.3 mm / 13.5 % | 52 % |
| 12.8 mm | 21.1 mm | 8.3 mm / 39 % | |

### Size 2




| IP67 D-SUB CONEC SlimCon | IP67 D-SUB Standard/ Solid Body | Space-saving | Reduction of mounting space |
|---|---|---|---|
| 39.22 mm | 47.7 mm | 8.3 mm / 13.5 % | 50 % |
| 12.8 mm | 21.1 mm | 8.3 mm / 39 % | |

### Size 3




| IP67 D-SUB CONEC SlimCon | IP67 D-SUB Standard/ Solid Body | Space-saving | Reduction of mounting space |
|---|---|---|---|
| 53.1 mm | 61.4 mm | 8.3 mm / 13.5 % | 48 % |
| 12.8 mm | 21.1 mm | 8.3 mm / 39 % | |

Technical specifications are subject to change without notice.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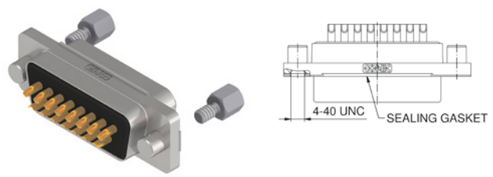
# IP67 D-SUB Connectors
## CONEC SlimCon

*One-piece shell: zinc die-cast nickel plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

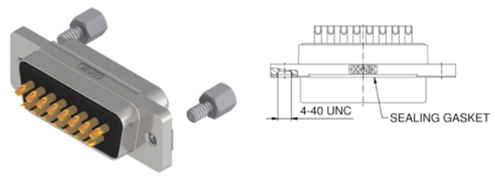
### Solder cup
### Precision machined contacts, AWG 20

**4-40 UNC threaded insert**




| *No. of poles* | *Current rating [A]* | *Working voltage [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 125 | 3 | 15-006293 | 15-006243 |
| 15 | | | | 15-006303 | 15-006253 |
| 25 | | | | 15-006313 | 15-006263 |

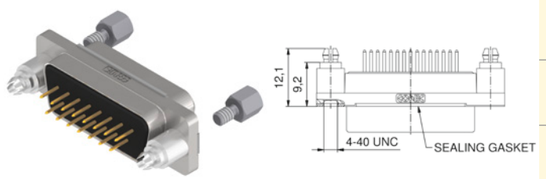
**4-40 UNC threaded insert (for cable assembly and overmould)**




| | | | | | |
|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 125 | 3 | 15-006393 | 15-006343 |
| 15 | | | | 15-006403 | 15-006353 |
| 25 | | | | 15-006413 | 15-006363 |

### Solder pin, straight
### Precision machined contacts

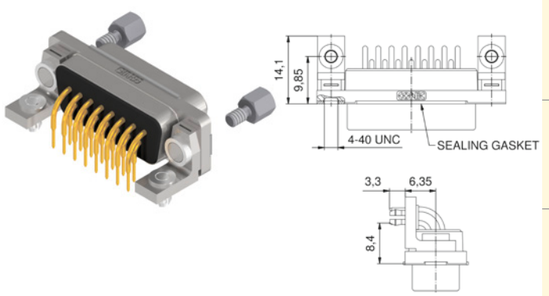
**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**




| | | | | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 125 | 3 | 15-006493 | 15-006443 |
| 15 | | | | 15-006503 | 15-006453 |
| 25 | | | | 15-006513 | 15-006463 |

### Solder pin, angled, .331"/8.4 mm
### Precision machined contacts, metal bracket

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**




| | | | | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 125 | 3 | 15-006593 | 15-006543 |
| 15 | | | | 15-006603 | 15-006553 |
| 25 | | | | 15-006613 | 15-006563 |



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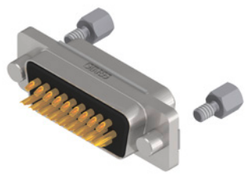
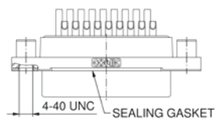
# IP67 D-SUB High Density Connectors
## CONEC SlimCon

*One-piece shell: zinc die-cast nickel plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

### Solder cup
### Precision machined contacts, AWG 22

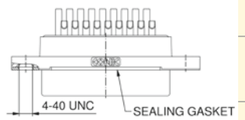
**4-40 UNC threaded insert**






| *No. of poles* | *Current rating [A]* | *Working voltage [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 15-007853 | 15-007823 |
| 26 | | | | 15-007863 | 15-007833 |
| 44 | | | | 15-007873 | 15-007843 |

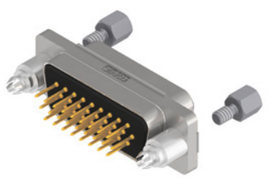
**4-40 UNC threaded insert (for cable assembly and overmould)**

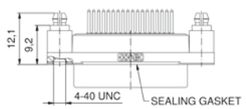



| | | | | | |
|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 15-007673 | 15-007703 |
| 26 | | | | 15-007683 | 15-007713 |
| 44 | | | | 15-007693 | 15-007723 |

### Solder pin, straight
### Precision machined contacts

**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**

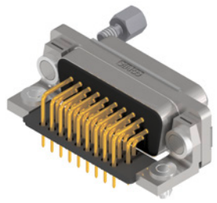


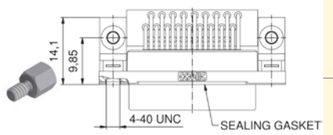


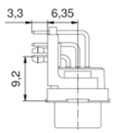

| | | | | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 15-007553 | 15-007583 |
| 26 | | | | 15-007563 | 15-007593 |
| 44 | | | | 15-007573 | 15-007603 |

### Solder pin, angled, .362"/9.2 mm
### Precision machined contacts, metal bracket

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| | | | | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 15-007613 | 15-007643 |
| 26 | | | | 15-007623 | 15-007653 |
| 44 | | | | 15-007633 | 15-007663 |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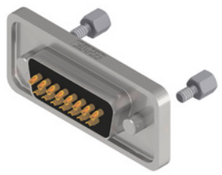
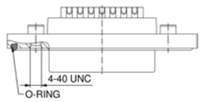
# IP67 D-SUB Connectors
## Standard Solid Body

*One-piece shell: zinc die-cast nickel plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

### Solder cup
### Precision machined contacts, AWG 20

4-40 UNC threaded insert

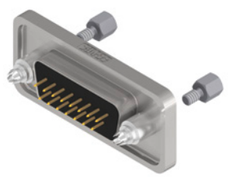


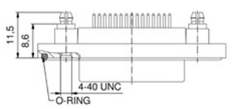



| *No. of poles* | *Current rating [A]* | *Working voltage [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 125 | 3 | 15-000613 | 15-000573 |
| 15 | | | | 15-000623 | 15-000583 |
| 25 | | | | 15-000633 | 15-000593 |
| 37 | | | | 15-000643 | 15-000603 |
| 50 | | | | 15-002103 | 15-002093 |

### Solder pin, straight
### Precision machined contacts

4-40 UNC threaded rear spacer clip for PCB 1.6 mm






| | | | | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 125 | 3 | 15-000453 | 15-000413 |
| 15 | | | | 15-000463 | 15-000423 |
| 25 | | | | 15-000473 | 15-000433 |
| 37 | | | | 15-000483 | 15-000443 |
| 50 | | | | 15-002063 | 15-002053 |



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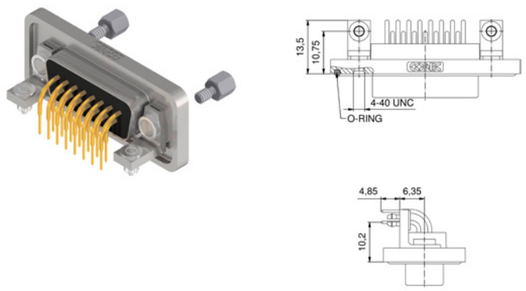
## IP67 D-SUB Connectors
### Standard Solid Body

### Solder pin, angled, .402"/10.2 mm
### Precision machined contacts, metal bracket

*One-piece shell: zinc die-cast nickel plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

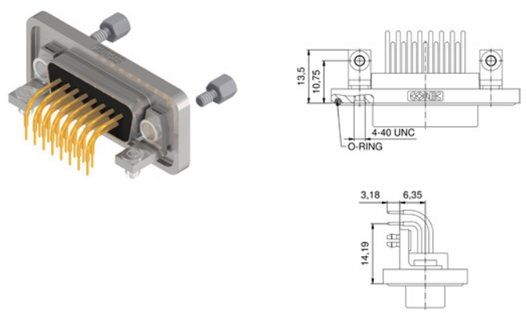
Clip for PCB 1.6 mm, 4-40 UNC threaded insert




| No. of poles | Current rating [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 125 | 3 | 15-000773 | 15-000733 |
| 15 | | | | 15-000783 | 15-000743 |
| 25 | | | | 15-000793 | 15-000753 |
| 37 | | | | 15-000803 | 15-000763 |
| 50 | | | | 15-002143 | 15-002133 |

### Solder pin, angled, .590"/14.19 mm
### Precision machined contacts, metal bracket

Clip for PCB 1.6 mm, 4-40 UNC threaded insert



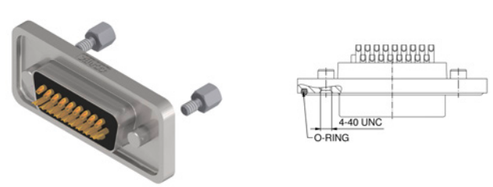

| No. of poles | Current rating [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 125 | 3 | 15-000853 | 15-000813 |
| 15 | | | | 15-000863 | 15-000823 |
| 25 | | | | 15-000873 | 15-000833 |
| 37 | | | | 15-000883 | 15-000843 |
| 50 | | | | 15-002163 | 15-002153 |

## IP67 D-SUB Connectors
### High Density Solid Body

### Solder cup
### Precision machined contacts, AWG 22

*One-piece shell: zinc die-cast nickel plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

4-40 UNC threaded insert




| No. of poles | Current rating [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 15-000693 | 15-000653 |
| 26 | | | | 15-000703 | 15-000663 |
| 44 | | | | 15-000713 | 15-000673 |
| 62 | | | | 15-000723 | 15-000683 |
| 78 | | | | 15-002123 | 15-002113 |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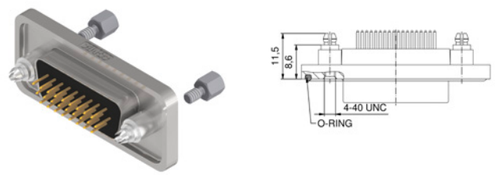
# IP67 D-SUB Connectors
## High Density Solid Body

*One-piece shell: zinc die-cast nickel plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

### Solder pin, straight
### Precision machined contacts

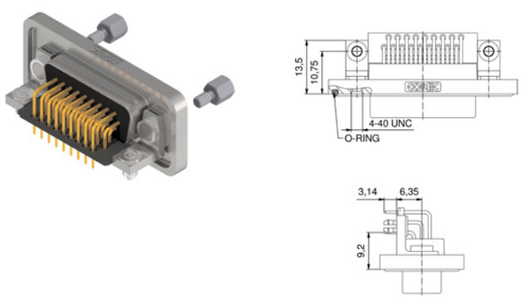
4-40 UNC threaded rear spacer clip for PCB 1.6 mm




| No. of poles | Current rating [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 15-000533 | 15-000493 |
| 26 | | | | 15-000543 | 15-000503 |
| 44 | | | | 15-000553 | 15-000513 |
| 62 | | | | 15-000563 | 15-000523 |
| 78 | | | | 15-002183 | 15-002073 |

### Solder pin, angled, .362"/9.2 mm
### Precision machined contacts, metal bracket

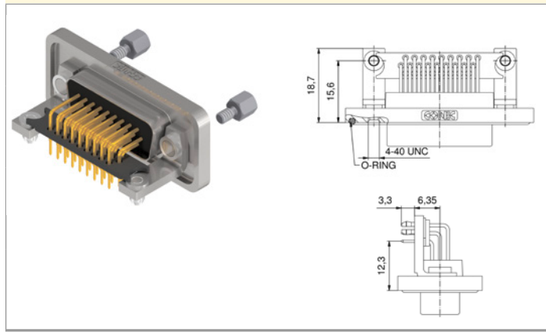
Clip for PCB 1.6 mm, 4-40 UNC threaded insert




| No. of poles | Current rating [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 15-002243 | 15-002193 |
| 26 | | | | 15-002253 | 15-002203 |
| 44 | | | | 15-002263 | 15-002213 |
| 62 | | | | 15-002273 | 15-002223 |
| 78 | | | | 15-002283 | 15-002233 |

### Solder pin, angled, .484"/12.3 mm
### Precision machined contacts, metal bracket

Clip for PCB 1.6 mm, 4-40 UNC threaded insert




| No. of poles | Current rating [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 15-000933 | 15-000893 |
| 26 | | | | 15-000943 | 15-000903 |
| 44 | | | | 15-000953 | 15-000913 |
| 62 | | | | 15-000963 | 15-000923 |



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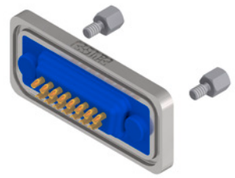
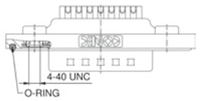
# IP67 D-SUB Connectors
## Standard

### Solder cup
### Precision machined contacts, AWG 20

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

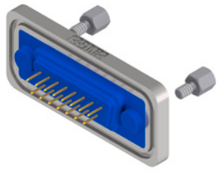


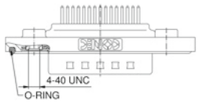



| *No. of poles* | *Current rating [A]* | *Working voltage [V]* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 6STD09SAM99B30X | 6STD09PAM99B30X |
| 15 | | | | | 6STD15SAM99B30X | 6STD15PAM99B30X |
| 25 | | | | | 6STD25SAM99B30X | 6STD25PAM99B30X |
| 37 | | | | | 6STD37SAM99B30X | 6STD37PAM99B30X |
| 50 | | | | | 6STD50SAM99B30X | 6STD50PAM99B30X |

### Solder pin, straight
### Precision machined contacts

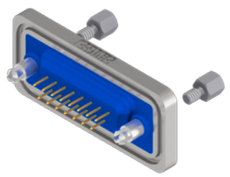
**4-40 UNC threaded insert**

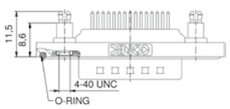





| | | | | | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 6STD09SAR99B30X | 6STD09PAR99B30X |
| 15 | | | | | 6STD15SAR99B30X | 6STD15PAR99B30X |
| 25 | | | | | 6STD25SAR99B30X | 6STD25PAR99B30X |
| 37 | | | | | 6STD37SAR99B30X | 6STD37PAR99B30X |
| 50 | | | | | 6STD50SAR99B30X | 6STD50PAR99B30X |

**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**






| | | | | | | |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 6STD09SAR99E20X | 6STD09PAR99E20X |
| 15 | | | | | 6STD15SAR99E20X | 6STD15PAR99E20X |
| 25 | | | | | 6STD25SAR99E20X | 6STD25PAR99E20X |
| 37 | | | | | 6STD37SAR99E20X | 6STD37PAR99E20X |
| 50 | | | | | 6STD50SAR99E20X | 6STD50PAR99E20X |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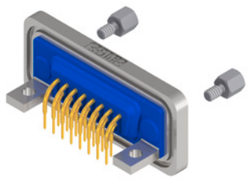
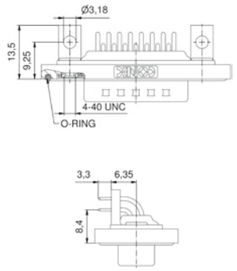
## IP67 D-SUB Connectors
**Standard**

**Solder pin, angled, .331"/8.4 mm**
**Precision machined contacts, metal bracket**

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

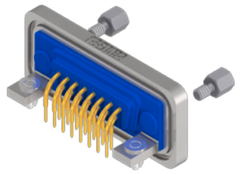
**4-40 UNC threaded insert**

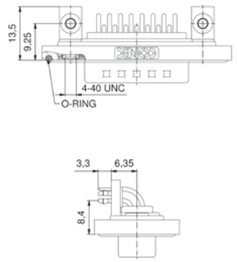





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 125 | E202784 | 3 | 6STD09SAT99S20X | 6STD09PAT99S20X |
| 15 | | | | | 6STD15SAT99S20X | 6STD15PAT99S20X |
| 25 | | | | | 6STD25SAT99S20X | 6STD25PAT99S20X |
| 37 | | | | | 6STD37SAT99S20X | 6STD37PAT99S20X |
| 50 | | | | | 6STD50SAT99S20X | 6STD50PAT99S20X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 125 | E202784 | 3 | 6STD09SAT99S40X | 6STD09PAT99S40X |
| 15 | | | | | 6STD15SAT99S40X | 6STD15PAT99S40X |
| 25 | | | | | 6STD25SAT99S40X | 6STD25PAT99S40X |
| 37 | | | | | 6STD37SAT99S40X | 6STD37PAT99S40X |
| 50 | | | | | 6STD50SAT99S40X | 6STD50PAT99S40X |



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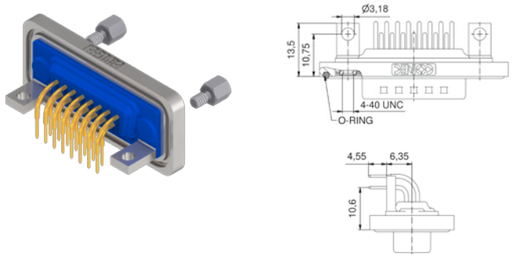
# IP67 D-SUB Connectors
## Standard

### Solder pin, angled, .417"/10.6 mm
### Precision machined contacts, metal bracket

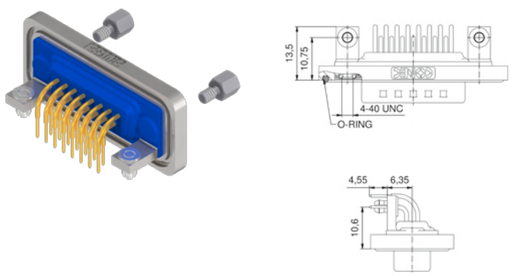
*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**




| *No. of poles* | *Current rating [A]* | *Working voltage [V]* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 6STD09SAU99R20X | 6STD09PAU99R20X |
| 15 | | | | | 6STD15SAU99R20X | 6STD15PAU99R20X |
| 25 | | | | | 6STD25SAU99R20X | 6STD25PAU99R20X |
| 37 | | | | | 6STD37SAU99R20X | 6STD37PAU99R20X |
| 50 | | | | | 6STD50SAU99R20X | 6STD50PAU99R20X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**




| | | | | | | |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 6STD09SAU99R40X | 6STD09PAU99R40X |
| 15 | | | | | 6STD15SAU99R40X | 6STD15PAU99R40X |
| 25 | | | | | 6STD25SAU99R40X | 6STD25PAU99R40X |
| 37 | | | | | 6STD37SAU99R40X | 6STD37PAU99R40X |
| 50 | | | | | 6STD50SAU99R40X | 6STD50PAU99R40X |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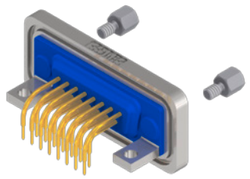
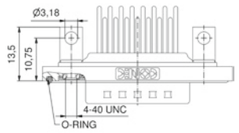
## IP67 D-SUB Connectors
### Standard

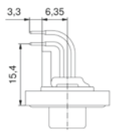
**Solder pin, angled, .606"/15.4 mm**
**Precision machined contacts, metal bracket**

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

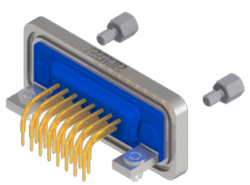


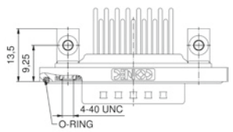


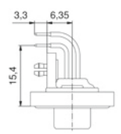




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 6STD09SAZ99S20X | 6STD09PAZ99S20X |
| 15 | | | | | 6STD15SAZ99S20X | 6STD15PAZ99S20X |
| 25 | | | | | 6STD25SAZ99S20X | 6STD25PAZ99S20X |
| 37 | | | | | 6STD37SAZ99S20X | 6STD37PAZ99S20X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 6STD09SAZ99S40X | 6STD09PAZ99S40X |
| 15 | | | | | 6STD15SAZ99S40X | 6STD15PAZ99S40X |
| 25 | | | | | 6STD25SAZ99S40X | 6STD25PAZ99S40X |
| 37 | | | | | 6STD37SAZ99S40X | 6STD37PAZ99S40X |



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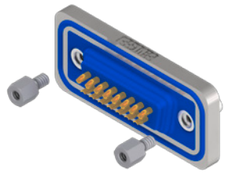
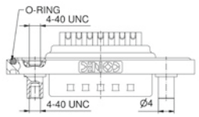
## IP67 D-SUB Connectors
### Standard

**Solder cup, precision machined contacts**
**Front panel mounting, AWG 20**

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

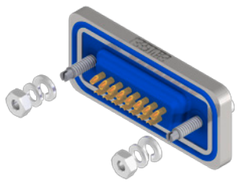
**4-40 UNC Front spacer**

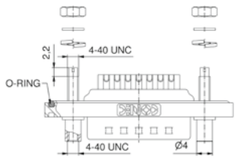





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 6STD09SAM99B50X | 6STD09PAM99B50X |
| 15 | | | | | 6STD15SAM99B50X | 6STD15PAM99B50X |
| 25 | | | | | 6STD25SAM99B50X | 6STD25PAM99B50X |
| 37 | | | | | 6STD37SAM99B50X | 6STD37PAM99B50X |
| 50 | | | | | 6STD50SAM99B50X | 6STD50PAM99B50X |

**4-40 UNC Front spacer and rear mounting stud**





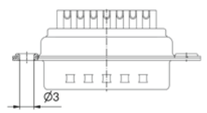

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 6STD09SAM99B70X | 6STD09PAM99B70X |
| 15 | | | | | 6STD15SAM99B70X | 6STD15PAM99B70X |
| 25 | | | | | 6STD25SAM99B70X | 6STD25PAM99B70X |
| 37 | | | | | 6STD37SAM99B70X | 6STD37PAM99B70X |
| 50 | | | | | 6STD50SAM99B70X | 6STD50PAM99B70X |

## IP67 D-SUB Connectors
### Standard

**Solder cup, precision machined contacts**
**Hood Assembly, AWG 20**

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*

**Through-hole Ø 3 mm**



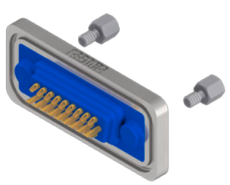

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 4STD09SAM99A10X | 4STD09PAM99A10X |
| 15 | | | | | 4STD15SAM99A10X | 4STD15PAM99A10X |
| 25 | | | | | 4STD25SAM99A10X | 4STD25PAM99A10X |
| 37 | | | | | 4STD37SAM99A10X | 4STD37PAM99A10X |
| 50 | | | | | 4STD50SAM99A10X | 4STD50PAM99A10X |

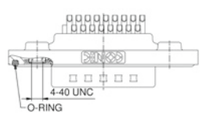
## IP67 D-SUB Connectors
### High Density

**Solder cup**
**Precision machined contacts, AWG 22**

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2,5 (CSA) | 60 | E202784 | 3 | 6HDD15SAM99B30X | 6HDD15PAM99B30X |
| 26 | | | | | 6HDD26SAM99B30X | 6HDD26PAM99B30X |
| 44 | | | | | 6HDD44SAM99B30X | 6HDD44PAM99B30X |
| 62 | | | | | 6HDD62SAM99B30X | 6HDD62PAM99B30X |
| 78 | | | | | 6HDD78SAM99B30X | 6HDD78PAM99B30X |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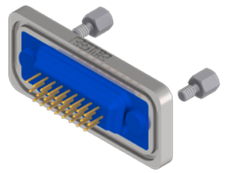
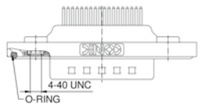
# IP67 D-SUB Connectors
## High Density

### Solder pin, straight
### Precision machined contacts

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

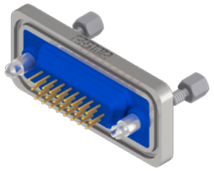
**4-40 UNC threaded insert**

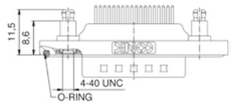





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 6HDD15SAR99B30X | 6HDD15PAR99B30X |
| 26 | | | | | 6HDD26SAR99B30X | 6HDD26PAR99B30X |
| 44 | | | | | 6HDD44SAR99B30X | 6HDD44PAR99B30X |
| 62 | | | | | 6HDD62SAR99B30X | 6HDD62PAR99B30X |
| 78 | | | | | 6HDD78SAR99B30X | 6HDD78PAR99B30X |

**4-40 UNC threaded rear spacer clip for PCB 1.6 mm**

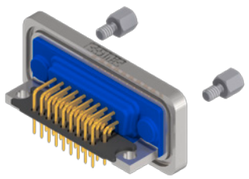


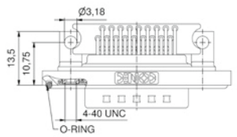


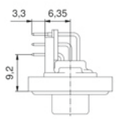

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 6HDD15SAR99E20X | 6HDD15PAR99E20X |
| 26 | | | | | 6HDD26SAR99E20X | 6HDD26PAR99E20X |
| 44 | | | | | 6HDD44SAR99E20X | 6HDD44PAR99E20X |
| 62 | | | | | 6HDD62SAR99E20X | 6HDD62PAR99E20X |
| 78 | | | | | 6HDD78SAR99E20X | 6HDD78PAR99E20X |

### Solder pin, angled, .362"/9.2 mm
### Precision machined contacts, metal bracket

**4-40 UNC threaded insert**

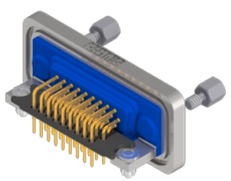


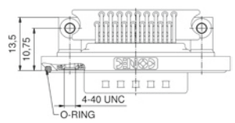


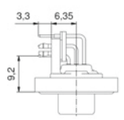




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 6HDD15SAY99R20X | 6HDD15PAY99R20X |
| 26 | | | | | 6HDD26SAY99R20X | 6HDD26PAY99R20X |
| 44 | | | | | 6HDD44SAY99R20X | 6HDD44PAY99R20X |
| 62 | | | | | 6HDD62SAY99R20X | 6HDD62PAY99R20X |
| 78 | | | | | 6HDD78SAY99R20X | 6HDD78PAY99R20X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 6HDD15SAY99R40X | 6HDD15PAY99R40X |
| 26 | | | | | 6HDD26SAY99R40X | 6HDD26PAY99R40X |
| 44 | | | | | 6HDD44SAY99R40X | 6HDD44PAY99R40X |
| 62 | | | | | 6HDD62SAY99R40X | 6HDD62PAY99R40X |
| 78 | | | | | 6HDD78SAY99R40X | 6HDD78PAY99R40X |



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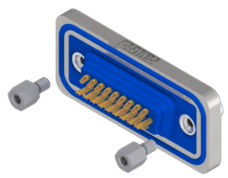
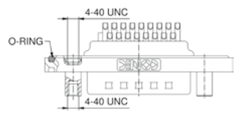
## IP67 D-SUB Connectors
### High Density

**Solder cup, precision machined contacts**
**Front panel mounting, AWG 22**

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

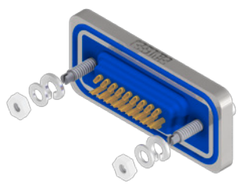
**4-40 UNC front spacer**

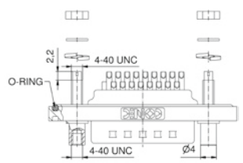





| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 6HDD15SAM99B50X | 6HDD15PAM99B50X |
| 26 | | | | | 6HDD26SAM99B50X | 6HDD26PAM99B50X |
| 44 | | | | | 6HDD44SAM99B50X | 6HDD44PAM99B50X |
| 62 | | | | | 6HDD62SAM99B50X | 6HDD62PAM99B50X |
| 78 | | | | | 6HDD78SAM99B50X | 6HDD78PAM99B50X |

**4-40 UNC Front spacer and rear mounting stud**





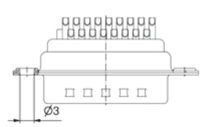

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 6HDD15SAM99B70X | 6HDD15PAM99B70X |
| 26 | | | | | 6HDD26SAM99B70X | 6HDD26PAM99B70X |
| 44 | | | | | 6HDD44SAM99B70X | 6HDD44PAM99B70X |
| 62 | | | | | 6HDD62SAM99B70X | 6HDD62PAM99B70X |
| 78 | | | | | 6HDD78SAM99B70X | 6HDD78PAM99B70X |

## IP67 D-SUB Connectors
### High Density

**Solder cup, precision machined contacts**
**Hood Assembly, AWG 22**

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*

**Through-hole Ø 3 mm**



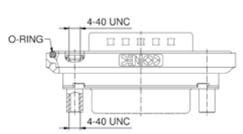

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15 | 3 (UL, VDE) / 2.5 (CSA) | 60 | E202784 | 3 | 4HDD15SAM99A10X | 4HDD15PAM99A10X |
| 26 | | | | | 4HDD26SAM99A10X | 4HDD26PAM99A10X |
| 44 | | | | | 4HDD44SAM99A10X | 4HDD44PAM99A10X |
| 62 | | | | | 4HDD62SAM99A10X | 4HDD62PAM99A10X |
| 78 | | | | | 4HDD78SAM99A10X | 4HDD78PAM99A10X |

## IP67 D-SUB Connectors
### Standard

**Interface adapter, connector saver**
**Plug connector - socket connector**

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*

**4-40 UNC threaded rear spacer**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact |
|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA VDE) | 125 | E202784 | 3 | 6STD09AAA99B90X |
| 15 | | | | | 6STD15AAA99B90X |
| 25 | | | | | 6STD25AAA99B90X |
| 37 | | | | | 6STD37AAA99B90X |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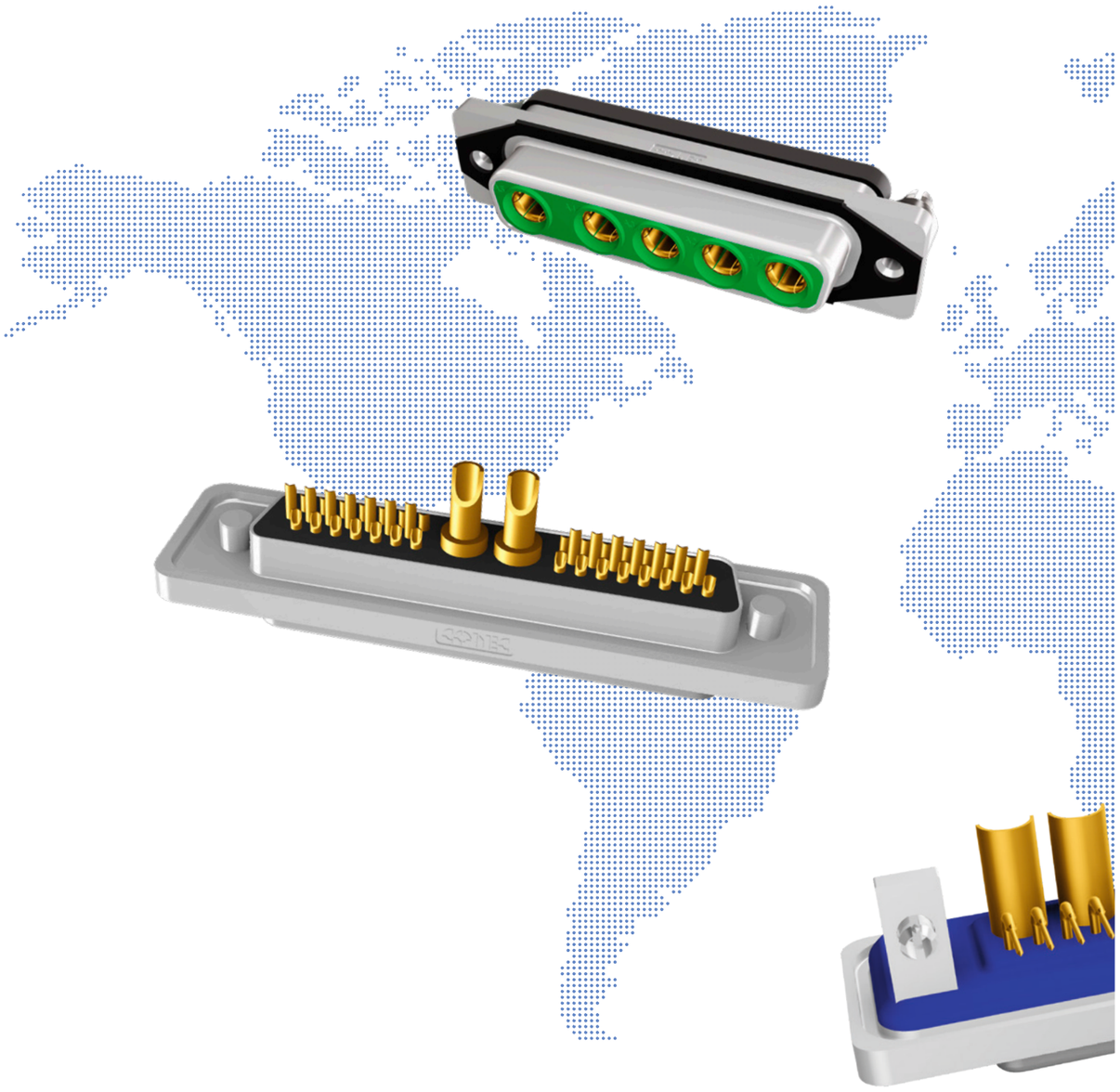
Section 7

# IP67 Combination D-SUB Connectors



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# IP67 Combination D-SUB Connectors

## Part Number Creator

6 0 0 7 W 2 S A M 6 2 B 3 O X

**Product Line**
6 = Shell: Brass tin plated with die-cast frame
4* = Shell: Brass tin plated with or without plastic frame
8* = Shell: Stainless steel with or without die-cast frame
9* = Shell: Stainless steel with plastic frame
* on request

**Variations**
Shellsize 1 = 5W1, 2W2C
Shellsize 2 = 3W3, 7W2, 11W1, 3W3C
Shellsize 3 = 5W5, 9W4, 13W3, 17W2, 21W1
Shellsize 4 = 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2
Shellsize 5 = 24W7, 36W4, 43W2, 47W1
Empty positions ADD „0" for example 007W2

**Contact type**
P = Plug connector
S = Socket connector

**Plating code/Quality class for signal contacts**
A = Quality class 3 = 50 mating cycles
B = Quality class 2 = 200 mating cycles
C = Quality class 1 = 500 mating cycles
X = without signal contact

**Termination applies to signal contacts only**
M = Solder cup
R = Solder pin – Straight
T = Solder pin – Angled, .189" / 4.80 mm
U = Solder pin – Angled, .276" / 7.00 mm
Z = Solder pin – Angled, .465" / 11.80 mm X = 3W3, 5W5, 8W8, 2W2C, 3W3C

**Termination for high power or coaxial contacts**

**Quality class 3 / Quality class 1**
61 / 41 = Solder cup 10 A
62 / 42 = Solder cup 20 A
68 / 48 = Solder pin – Straight 20 A, D= .077" 1.95 mm
69 / 49 = Solder pin – Straight 20 A, D= .102" 2.60 mm
70 / 50 = Solder pin – Straight 20 A, D= .112" 2.85 mm
71 / 51 = Solder pin – Straight 30 A, D= .125" 3.18 mm
72 / 52 = Solder pin – Straight 40 A, D= .148" 3.75 mm
59 / 55 = Solder pin – Angled 15 A
73 / 56 = Solder pin – Angled 20 A
74 / 57 = Solder pin – Angled 30 A
75 / 58 = Solder pin – Angled 40 A
77 / 60 = Solder pin – Angled 40 A

**Quality class 3 / Quality class 1**
85 / 65 = Solder pin – Angled 30 A
81 / 66 = Solder pin – Angled 20 A
82 / 67 = Solder pin – Angled 30 A
F9 / H4 = Cable connection straight 75 Ω
G1 / H5 = Cable connection straight 75 Ω
G2 / H6 = Cable connection straight50 Ω
G3 / H7 = Cable connection straight 50 Ω
G4 / H8 = Cable connection straight 50 Ω
G5 / H9 = Cable connection straight 50 Ω
G6 / K1 = Cable connection straight 50 Ω
G7 / 76 = 3 solder pins straight 50 Ω
G8 / 86 = 3 solder pins straight 75 Ω

**Quality class 3 / Quality class 1**
G9 / 78 = 3 solder pins angled 50 Ω
H1 / 79 = 3 solder pins angled 50 Ω
H2 / 88 = 3 solder pins angled 75 Ω
H3 / 89 = 3 solder pins angled 75 Ω
R1 = Screw Crimp 10 A
R2 = Screw Crimp 20A
R3 = Screw Crimp 30A
R4 = Screw Crimp 40A

**Mounting style**
A1 = Riveted through hole for hood assembly
B3 = 4-40 UNC threaded insert
B5 = 4-40 UNC front spacer
E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" 1.60 mm
S2 = Metal bracket, 4-40 UNC threaded insert
S4 = Metal bracket, 4-40 UNC threaded insert and PCB clip
R2 = Metal bracket, 4-40 UNC threaded insert
R4 = Metal bracket, 4-40 UNC threaded insert PCB clip

OX = Standard


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# IP67 Combination D-SUB Connectors

## Product specification
## Standard

| Basic material | Connectors with Signal contacts | Coaxial contacts | High power contacts |
|---|---|---|---|
| Contact | Copper alloy | | |
| Contact plating | Flash gold over nickel | | |
| Insulator (Connector) | PBT GF UL 94 V-0 (Connectors) | | |
| Insulator (Contacts) | | PTFE/PBTP/PI (Contacts) | |
| Shell | Brass tin plated (Stainless steel on request) | | |
| Retaining clip | | Copper alloy | |
| **Technical Data** | | | |
| Test voltage | 1000 V, 50 Hz, 1 min. | 750 V, 50 Hz, 1 min. | 1000 V, 50 Hz, 1 min. |
| Working voltage | 250 V AC/DC<br>depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1 | | |
| Current rating | 7.5 A (UL) / 5 A (CSA, VDE) | 2 A | 10 - 40 A (UL) |
| Resistance between mated contacts | max. 10 mΩ | max. 2.7 mΩ | max. 1 mΩ |
| Insulation resistance | ≥ 5 GΩ | ≥1 GΩ | ≥ 5 GΩ |
| Characteristic impedance | | 50/75 Ω | |
| Frequency range | | 0-2 GHz | |
| VSWR-value according MIL-C-39012 | | ≤ 1.2 @ 1.2 GHz<br>≤ 1.3 @ 1.5 GHz<br>≤ 1.5 @ 2.0 GHz | |
| Operating temperature | - 25 °C to + 105 °C | | |
| Mounting style<br>Front or rear panel mounting<br>Panel thickness | min. 1 mm to 1.6 mm | | |
| Insertion force per contact | 3.4 N | 7 N | 7 N |
| Extraction force per contact | 0.2 N | 7 N | approx. 5 N |
| Quality class | A = Quality class 3 = 50 mating cycles<br>B = Quality class 2 = 200 mating cycles<br>C = Quality class 1 = 500 mating cycles | | |

| Recommended wave-solder parameters | Preheating | | Solder terminal dipping parameters | |
|---|---|---|---|---|
| | Temperature | duration | max. Solder bath temperature | max. terminal immersion time |
| IP67 Combination D-SUB Standard | 120 °C | 120 s | 240 °C | 5 s |

Technical specifications are subject to change without notice



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# IP67 Combination D-SUB Connectors

## Product specification
## Solid Body

| Basic material | Solid Body Connectors with | | | |
|---|---|---|---|---|
| | D-SUB signal contacts | HD-SUB signal contacts | Coaxial contacts | High power contacts |
| Contact | Copper alloy | | | |
| Contact plating | Flash gold over nickel | | | |
| Insulator (Connector) | PBT GF UL 94 V-0 | | | |
| Insulator (Contacts) | | | PBT GF UL 94 V-0 | |
| Shell | Zinc die-cast nickel plated | | | |
| Retaining clip | | | Copper alloy | |
| **Technical Data** | | | | |
| Test voltage | 1000 V, 50 Hz, 1 min. | 1000 V, 50 Hz, 1 min. | 750 V, 50 Hz, 1 min. | 1000 V, 50 Hz, 1 min. |
| Working voltage | 250 V AC/DC | 60 V AC/DC | 250 V AC/DC | 250 V AC/DC |
| | depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1 | | | |
| Current rating | 7.5 A (UL) / 5 A (CSA, VDE) | 3 A (UL, VDE) / 2.5 A (CSA) | 2 A | 10 - 40 A (UL) |
| Resistance between mated contacts | max. 10 mΩ | max. 10 mΩ | max. 2.7 mΩ | max. 1 mΩ |
| Insulation resistance | ≥ 5 GΩ | max. 10 mΩ | ≥ 1 GΩ | ≥ 5 GΩ |
| Characteristic impedance | | | 50/75 Ω | |
| Frequency range | | | 0-2 GHz | |
| VSWR-value according MIL-C-39012 | | | ≤ 1.2 @ 1.2 GHz<br>≤ 1.3 @ 1.5 GHz<br>≤ 1.5 @ 2.0 GHz | |
| Operating temperature | - 40 °C to + 105 °C | | | |
| Mounting style<br>Front or rear panel mounting<br>Panel thickness | min. 1 mm to 1.6 mm | | | |
| Insertion force per contact | 3.4 N | 3.4 N | 7 N | 7 N |
| Extraction force per contact | 0.2 N | 0.2 N | 7 N | approx. 5 N |
| Quality class | A = Quality class 3 = 50 mating cycles<br>B = Quality class 2 = 200 mating cycles<br>C = Quality class 1 = 500 mating cycles | | | |

| Recommended wave-solder parameters | Preheating | | Solder terminal dipping parameters | |
|---|---|---|---|---|
| | Temperature | duration | max. Solder bath temperature | max. terminal immersion time |
| IP67 Combination D-SUB Solid Body | 150 °C | 180 s | 265 °C | 8 s |

Technical specifications are subject to change without notice


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# IP67 Combination D-SUB Connectors

## Product specification
## CONEC SlimCon

| Basic material | CONEC SlimCon Connectors with | | | |
|---|---|---|---|---|
| | D-SUB signal contacts | HD-SUB signal contacts | Coaxial contacts | High power contacts |
| Contact | Copper alloy | | | |
| Contact plating | Flash gold over nickel | | | |
| Insulator | PBT GF UL 94 V-0 | | | |
| Insulator | | | PTFE/PBTP/PI | |
| Shell | Zinc die-cast nickel plated | | | |
| Retaining clip | | | Copper alloy | |
| **Technische Daten** | | | | |
| Test voltage | 1000 V, 50 Hz, 1 min. | 1000 V, 50 Hz, 1 min. | 750 V, 50 Hz, 1 min. | 1000 V, 50 Hz, 1 min. |
| Working voltage | 250 V AC/DC | 60 V AC/DC | 250 V AC/DC | 250 V AC/DC |
| | depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1 | | | |
| Current rating | 7.5 A (UL) / 5 A (CSA, VDE) | 3 A (UL, VDE) / 2.5 A (CSA) | 2 A | 10 - 40 A (UL) |
| Resistance between mated contacts | max. 10 mΩ | max. 10 mΩ | max. 2.7 mΩ | max. 1 mΩ |
| Insulation resistance | ≥ 5 GΩ | max. 10 mΩ | ≥ 1 GΩ | ≥ 5 GΩ |
| Characteristic impedance | | | 50/75 Ω | |
| Frequency range | | | 0-2 GHz | |
| VSWR-value according MIL-C-39012 | | | ≤ 1.2 @ 1.2 GHz<br>≤ 1.3 @ 1.5 GHz<br>≤ 1.5 @ 2.0 GHz | |
| Operating temperature | - 40 °C bis + 105 °C | | | |
| Mounting style<br>Front or rear panel mounting<br>Panel thickness | min. 0.8 mm to 1.3 mm | | | |
| Insertion force per contact | 3.4 N | 3.4 N | 7 N | 7 N |
| Extraction force per contact | 0.2 N | 0.2 N | 7 N | approx. 5 N |
| Quality class | A = Quality class 3 = 50 mating cycles<br>B = Quality class 2 = 200 mating cycles<br>C = Quality class 1 = 500 mating cycles | | | |

| Recommended wave-solder parameters | Preheating | | Solder terminal dipping parameters | |
|---|---|---|---|---|
| | Temperature | duration | max. Solder bath temperature | max. terminal immersion time |
| IP67 Combination D-SUB CONEC SlimCon | 150 °C | 180 s | 265 °C | 8 s |

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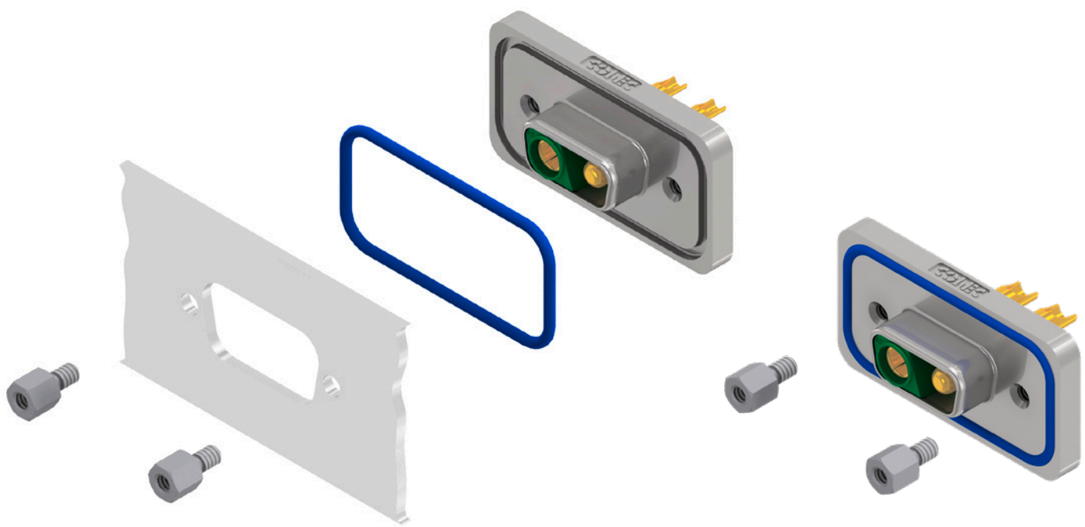
## Panel mounting

### Front panel mounting

### Back panel mounting



The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (standard & solid body)/.051"/1.3 mm (CONEC SlimCon) such that it does not extend beyond the plug-in height. Material: stainless steel.

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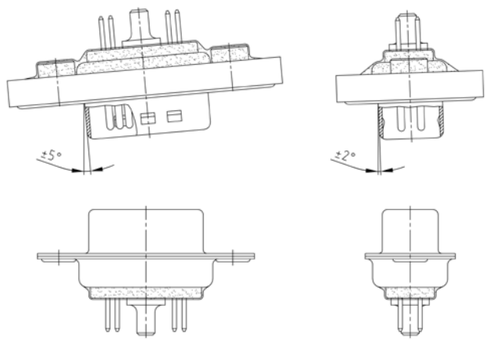
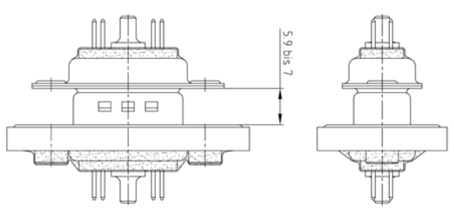
## Mating conditions

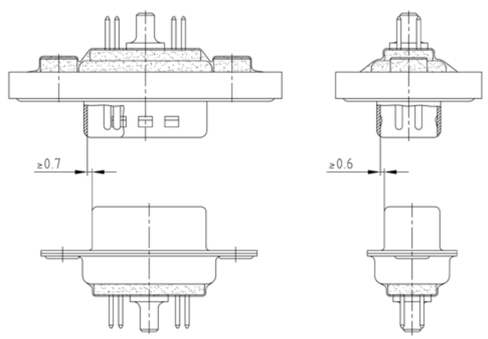
### Max. tilt angle for connector mating




### Range for safe contact

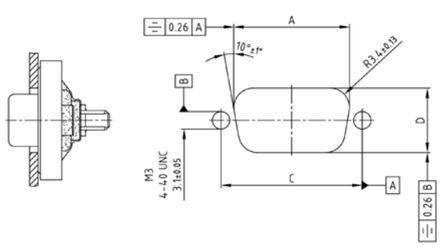



### Lock-in range

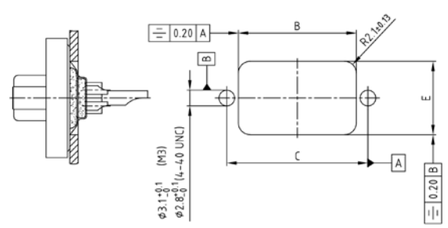



## Panel cut-out

### Back panel mounting




### Front panel mounting




| Shell size | A ± 0.1 | B ± 0.1 | C ± 0.1 | D ± 0.1 | E ± 0.1 |
|---|---|---|---|---|---|
| 1 | 20.50 | 20.90 | 25.00 | 11.40 | 13.00 |
| 2 | 28.80 | 29.20 | 33.30 | 11.40 | 13.00 |
| 3 | 42.50 | 42.90 | 47.04 | 11.40 | 13.00 |
| 4 | 59.10 | 59.40 | 63.50 | 11.40 | 13.00 |
| 5 | 56.30 | 57.00 | 61.10 | 14.10 | 15.80 |

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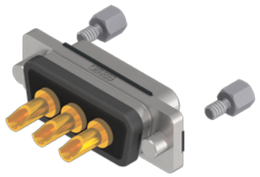
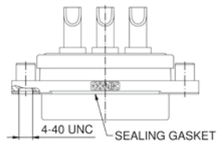
## IP67 Combination D-SUB Connectors
### CONEC SlimCon with high power contacts 20 A

### Solder cup straight
### Precision machined contacts, AWG 12-14

*One-piece zinc die-cast nickel plated shell*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

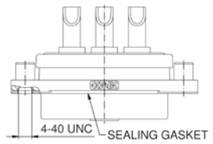
**4-40 UNC threaded insert**






| *No. of poles* | *Current rating high power contacts [A]* | *Working voltage [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 3W3 | 20 | 250 | 3 | 15-007953 | 15-008083 |
| 5W5 | | | | 15-007963 | 15-008093 |

**4-40 UNC threaded insert, coded version**



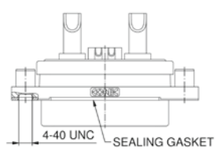

| | | | | | |
|---|---|---|---|---|---|
| 2W2C | 20 | 250 | 3 | 15-007933 | |
| 3W3C | | | | 15-007943 | 15-008073 |

## IP67 Combination D-SUB Connectors
### CONEC SlimCon with signal contacts & high power contacts 20 A

### Solder cup straight
### Precision machined contacts, AWG 20 and AWG 12-14

*One-piece zinc die-cast nickel plated shell*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

**4-40 UNC threaded insert**




| *No. of poles* | *Current rating signal contacts [A]* | *Current rating high power contacts [A]* | *Working voltage [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 7W2 | 75 (UL) / 5 (CSA VDE) | 20 | 250 | 3 | 15-007973 | 15-008103 |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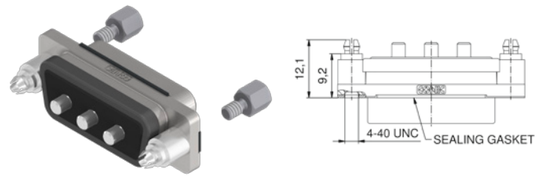
## IP67 Combination D-SUB Connectors
### CONEC SlimCon with high power contacts 20 A

### Solder pin straight
### Precision machined contacts

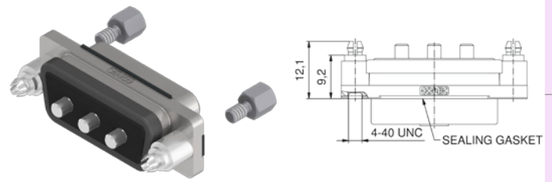
*One-piece zinc die-cast nickel plated shell*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**




| *No. of poles* | *Current rating high power contacts [A]* | *Betriebsspannung [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 3W3 | 20 | 250 | 3 | 15-007083 | 15-007213 |
| 5W5 | | | | 15-007093 | 15-007223 |

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm, coded version**



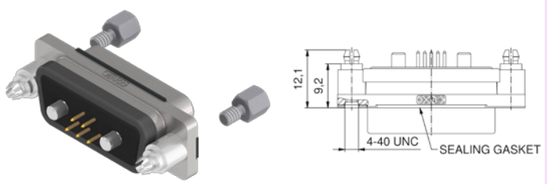

| | | | | | |
|---|---|---|---|---|---|
| 2W2C | 20 | 250 | 3 | 15-007063 | |
| 3W3C | | | | 15-007073 | 15-007203 |

## IP67 Combination D-SUB Connectors
### CONEC SlimCon with signal contacts & high power contacts 20 A

### Solder pin straight
### Precision machined contacts

*One-piece zinc die-cast nickel plated shell*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**




| *No. of poles* | *Current rating signal contacts [A]* | *Current rating high power contacts [A]* | *Working voltage [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 7W2 | 7,5 (UL) / 5 (CSA VDE) | 20 | 250 | 3 | 15-007103 | 15-007233 |



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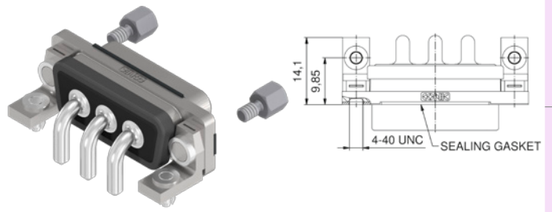
## IP67 Combination D-SUB Connectors
CONEC SlimCon with high power contacts 20 A

### Solder pin angled
Precision machined contacts, metal bracket

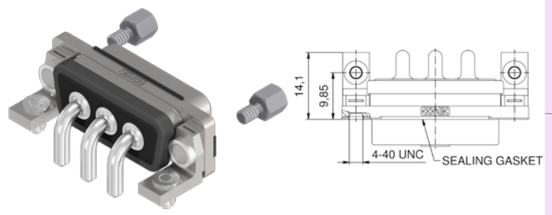
*One-piece zinc die-cast nickel plated shell*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

**Mounting bracket PCB clip**




| No. of poles | Current rating high power contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 3W3 | 20 | 250 | 3 | 15-007353 | 15-007483 |
| 5W5 | | | | 15-007363 | 15-007493 |

**Mounting bracket PCB clip, coded version**



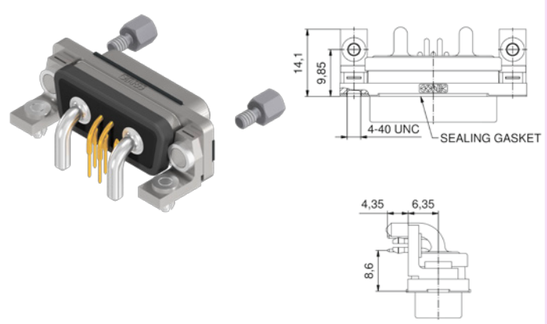

| No. of poles | Current rating high power contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 2W2C | 20 | 250 | 3 | 15-007333 | |
| 3W3C | | | | 15-007343 | 15-007483 |

## IP67 Combination D-SUB Connectors
CONEC SlimCon with signal contacts & high power contacts 20 A

### Solder pin angled, .338"/8.6 mm
Precision machined contacts, metal bracket

*One-piece zinc die-cast nickel plated shell*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

**Mounting bracket PCB clip**




| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 7W2 | 75 (UL) / 5 (CSA VDE) | 20 | 250 | 3 | 15-007373 | 15-007503 |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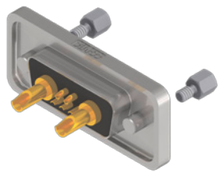
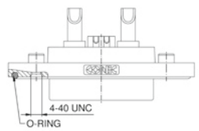
# IP67 Combination D-SUB Connectors
## Solid Body with signal & high power contacts 20 A

### Solder cup straight
### Precision machined contacts, AWG 20 and AWG 12-14

*One-piece zinc die-cast nickel plated shell*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

4-40 UNC threaded insert

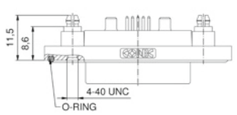





| *No. of poles* | *Current rating signal contacts [A]* | *Current rating high power contacts [A]* | *Working voltage [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 20 | 250 | 3 | 15-005063 | 15-005193 |
| 7W2 | | | | | 15-001103 | 15-004643 |
| 11W1 | | | | | 15-005073 | 15-005203 |
| 9W4 | | | | | 15-005083 | 15-005213 |
| 13W3 | | | | | 15-004563 | 15-004553 |
| 17W2 | | | | | 15-004453 | 15-004543 |
| 21W1 | | | | | 15-005093 | 15-005223 |
| 13W6 | | | | | 15-005103 | 15-005233 |
| 17W5 | | | | | 15-005113 | 15-005243 |
| 21WA4 | | | | | 15-005123 | 15-005253 |
| 25W3 | | | | | 15-005133 | 15-005263 |
| 27W2 | | | | | 15-005143 | 15-005273 |
| 24W7 | | | | | 15-005153 | 15-005283 |
| 36W4 | | | | | 15-005163 | 15-005293 |
| 43W2 | | | | | 15-005173 | 15-005303 |
| 47W1 | | | | | 15-005183 | 15-005313 |

### Solder pin straight
### Precision machined contacts

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm




| | | | | | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 20 | 250 | 3 | 15-005323 | 15-005473 |
| 7W2 | | | | | 15-001823 | 15-001863 |
| 11W1 | | | | | 15-005333 | 15-005483 |
| 9W4 | | | | | 15-005343 | 15-005493 |
| 13W3 | | | | | 15-005353 | 15-005503 |
| 17W2 | | | | | 15-005363 | 15-005513 |
| 21W1 | | | | | 15-005373 | 15-005523 |
| 13W6 | | | | | 15-005383 | 15-005533 |
| 17W5 | | | | | 15-005393 | 15-005543 |
| 21WA4 | | | | | 15-005403 | 15-005553 |
| 25W3 | | | | | 15-005413 | 15-005563 |
| 27W2 | | | | | 15-005423 | 15-005573 |
| 24W7 | | | | | 15-005433 | 15-005583 |
| 36W4 | | | | | 15-005443 | 15-005593 |
| 43W2 | | | | | 15-005453 | 15-005603 |
| 47W1 | | | | | 15-005463 | 15-005613 |



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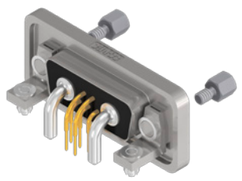
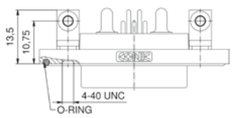
## IP67 Combination D-SUB Connectors
### Solid Body with signal & high power contacts 20 A

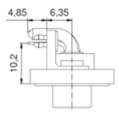
### Solder pin angled, .402"/10.2 mm
### Precision machined contacts, metal bracket

*One-piece zinc die-cast nickel plated shell*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

**Mounting bracket PCB clip**





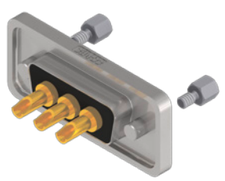

| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA VDE) | 20 | 250 | 3 | 15-005623 | 15-005763 |
| 7W2 | | | | | 15-001463 | 15-001503 |
| 11W1 | | | | | 15-005633 | 15-005773 |
| 9W4 | | | | | 15-005643 | 15-005783 |
| 13W3 | | | | | 15-005653 | 15-005793 |
| 17W2 | | | | | 15-005663 | 15-002323 |
| 21W1 | | | | | 15-005673 | 15-005803 |
| 13W6 | | | | | 15-005683 | 15-005813 |
| 17W5 | | | | | 15-005693 | 15-005823 |
| 21WA4 | | | | | 15-005703 | 15-005833 |
| 25W3 | | | | | 15-005713 | 15-002333 |
| 27W2 | | | | | 15-005723 | 15-005843 |
| 24W7 | | | | | 15-005733 | 15-005853 |
| 36W4 | | | | | 15-005743 | 15-002293 |
| 43W2 | | | | | 15-004593 | 15-005863 |
| 47W1 | | | | | 15-005753 | 15-005873 |

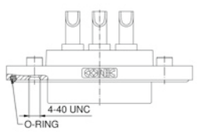
## IP67 Combination D-SUB Connectors
### Solid Body with high power contacts 20 A

### Solder cup straight
### Precision machined contacts, AWG 12-14

*One-piece zinc die-cast nickel plated shell*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

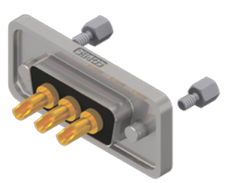
**4-40 UNC threaded insert**

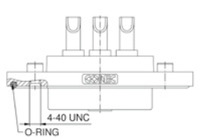





| No. of poles | Current rating high power contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 3W3 | 20 | 250 | 3 | 15-001083 | 15-001123 |
| 5W5 | | | | 15-001093 | 15-001133 |
| 8W8 | | | | 15-001613 | 15-001653 |

**4-40 UNC threaded insert, coded version**






| No. of poles | Current rating high power contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|
| 2W2C | 20 | 250 | 3 | 15-001063 | |
| 3W3C | | | | 15-001073 | 15-001113 |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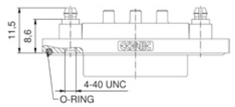
# IP67 Combination D-SUB Connectors
## Solid Body with high power contacts 20 A

*One-piece zinc die-cast nickel plated shell*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

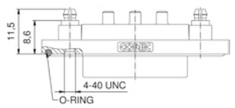
### Solder pin straight
### Precision machined contacts

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**




| *No. of poles* | *Current rating high power contacts [A]* | *Betriebsspannung [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 3W3 | 20 | 250 | 3 | 15-001803 | 15-001843 |
| 5W5 | | | | 15-001813 | 15-001853 |
| 8W8 | | | | 15-002023 | |

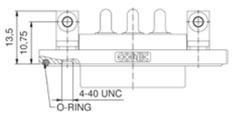
**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**




| *No. of poles* | *Current rating high power contacts [A]* | *Betriebsspannung [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 8W8 | 20 | 250 | 3 | 15-001783 | 15-001833 |
| 3W3C | | | | 15-001793 | 15-005883 |

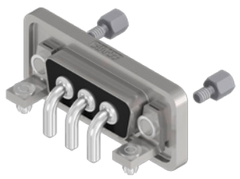
### Solder pin angled
### Precision machined contacts, metal bracket

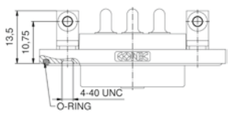
**Mounting bracket PCB clip**




| *No. of poles* | *Current rating high power contacts [A]* | *Betriebsspannung [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 3W3 | 20 | 250 | 3 | 15-001443 | 15-001483 |
| 5W5 | | | | 15-001453 | 15-001493 |
| 8W8 | | | | 15-001963 | 15-001993 |

**Mounting bracket PCB clip**






| *No. of poles* | *Current rating high power contacts [A]* | *Betriebsspannung [V]* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|
| 2W2C | 20 | 250 | 3 | 15-001423 | |
| 3W3C | | | | 15-001433 | 15-001473 |



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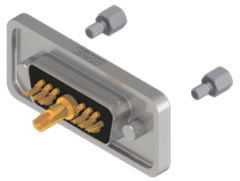
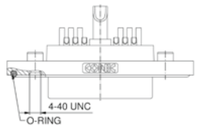
# IP67 Combination D-SUB Connectors
## Solid Body with signal & high power contacts 20 A

*One-piece zinc die-cast nickel plated shell*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

### Solder cup straight
### Precision machined contacts, AWG 12-14

**4-40 UNC threaded insert**

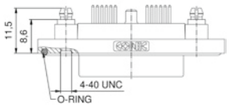





| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15W4 | 3 (UL, VDE) / 2.5 (CSA) | 20 | 60 | 3 | 15-005893 | 15-005923 |
| 19W1 | | | | | 15-005903 | 15-005933 |
| 45W2 | | | | | 15-005913 | 15-005943 |

### Solder pin straight
### Precision machined contacts

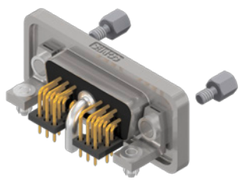
**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**

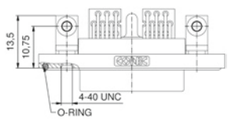


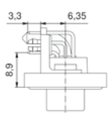

| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15W4 | 3 (UL, VDE) / 2.5 (CSA) | 20 | 60 | 3 | 15-005953 | 15-005983 |
| 19W1 | | | | | 15-005963 | 15-005993 |
| 45W2 | | | | | 15-005973 | 15-006003 |

### Solder pin angled
### Precision machined contacts, metal bracket

**Mounting bracket PCB clip**






| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 15W4 | 3 (UL, VDE) / 2.5 (CSA) | 20 | 60 | 3 | 15-006013 | 15-006043 |
| 19W1 | | | | | 15-006023 | 15-006053 |
| 45W2 | | | | | 15-006033 | 15-006063 |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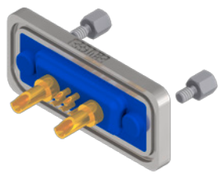
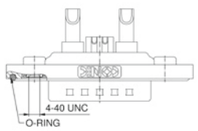
# IP67 Combination D-SUB Connectors
## With signal & high power contacts 10 A

### Solder cup
### Precision machined contacts, AWG 20

4-40 UNC threaded insert






*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 10 | 250 | E202784 | 3 | 6005W1SAM**61**B30X | 6005W1PAM**61**B30X |
| 7W2 | | | | | 3 | 6007W2SAM**61**B30X | 6007W2PAM**61**B30X |
| 11W1 | | | | | 3 | 6011W1SAM**61**B30X | 6011W1PAM**61**B30X |
| 9W4 | | | | | 3 | 6009W4SAM**61**B30X | 6009W4PAM**61**B30X |
| 13W3 | | | | | 3 | 6013W3SAM**61**B30X | 6013W3PAM**61**B30X |
| 17W2 | | | | | 3 | 6017W2SAM**61**B30X | 6017W2PAM**61**B30X |
| 21W1 | | | | | 3 | 6021W1SAM**61**B30X | 6021W1PAM**61**B30X |
| 13W6 | | | | | 3 | 6013W6SAM**61**B30X | 6013W6PAM**61**B30X |
| 17W5 | | | | | 3 | 6017W5SAM**61**B30X | 6017W5PAM**61**B30X |
| 21WA4 | | | | | 3 | 621WA4SAM**61**B30X | 621WA4PAM**61**B30X |
| 25W3 | | | | | 3 | 6025W3SAM**61**B30X | 6025W3PAM**61**B30X |
| 27W2 | | | | | 3 | 6027W2SAM**61**B30X | 6027W2PAM**61**B30X |
| 24W7 | | | | | 3 | 6024W7SAM**61**B30X | 6024W7PAM**61**B30X |
| 36W4 | | | | | 3 | 6036W4SAM**61**B30X | 6036W4PAM**61**B30X |
| 43W2 | | | | | 3 | 6043W2SAM**61**B30X | 6043W2PAM**61**B30X |
| 47W1 | | | | | 3 | 6047W1SAM**61**B30X | 6047W1PAM**61**B30X |

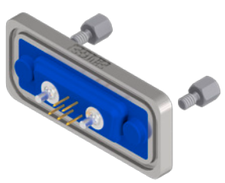
For other Power contacts select code from spread sheet

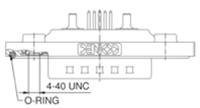
| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |

# IP67 Combination D-SUB Connectors
## With signal & high power contacts 20 A

### Solder pin straight
### Precision machined contacts

4-40 UNC threaded insert






*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 20 | 250 | E202784 | 3 | 6005W1SAR**68**B30X | 6005W1PAR**68**B30X |
| 7W2 | | | | | 3 | 6007W2SAR**68**B30X | 6007W2PAR**68**B30X |
| 11W1 | | | | | 3 | 6011W1SAR**68**B30X | 6011W1PAR**68**B30X |
| 9W4 | | | | | 3 | 6009W4SAR**68**B30X | 6009W4PAR**68**B30X |
| 13W3 | | | | | 3 | 6013W3SAR**68**B30X | 6013W3PAR**68**B30X |
| 17W2 | | | | | 3 | 6017W2SAR**68**B30X | 6017W2PAR**68**B30X |
| 21W1 | | | | | 3 | 6021W1SAR**68**B30X | 6021W1PAR**68**B30X |
| 13W6 | | | | | 3 | 6013W6SAR**68**B30X | 6013W6PAR**68**B30X |
| 17W5 | | | | | 3 | 6017W5SAR**68**B30X | 6017W5PAR**68**B30X |
| 21WA4 | | | | | 3 | 621WA4SAR**68**B30X | 621WA4PAR**68**B30X |
| 25W3 | | | | | 3 | 6025W3SAR**68**B30X | 6025W3PAR**68**B30X |
| 27W2 | | | | | 3 | 6027W2SAR**68**B30X | 6027W2PAR**68**B30X |
| 24W7 | | | | | 3 | 6024W7SAR**68**B30X | 6024W7PAR**68**B30X |
| 36W4 | | | | | 3 | 6036W4SAR**68**B30X | 6036W4PAR**68**B30X |
| 43W2 | | | | | 3 | 6043W2SAR**68**B30X | 6043W2PAR**68**B30X |
| 47W1 | | | | | 3 | 6047W1SAR**68**B30X | 6047W1PAR**68**B30X |

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |



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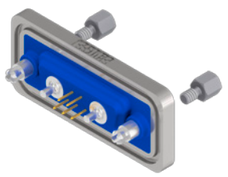
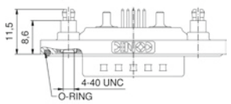
## IP67 Combination D-SUB Connectors
### With signal & high power contacts 20 A

### Solder pin straight
### Precision machined contacts, threaded rear spacer with PCB clip

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm






| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 20 | 250 | E202784 | 3 | 6005W1SAR**68**E20X | 6005W1PAR**68**E20X |
| 7W2 | | | | | 3 | 6007W2SAR**68**E20X | 6007W2PAR**68**E20X |
| 11W1 | | | | | 3 | 6011W1SAR**68**E20X | 6011W1PAR**68**E20X |
| 9W4 | | | | | 3 | 6009W4SAR**68**E20X | 6009W4PAR**68**E20X |
| 13W3 | | | | | 3 | 6013W3SAR**68**E20X | 6013W3PAR**68**E20X |
| 17W2 | | | | | 3 | 6017W2SAR**68**E20X | 6017W2PAR**68**E20X |
| 21W1 | | | | | 3 | 6021W1SAR**68**E20X | 6021W1PAR**68**E20X |
| 13W6 | | | | | 3 | 6013W6SAR**68**E20X | 6013W6PAR**68**E20X |
| 17W5 | | | | | 3 | 6017W5SAR**68**E20X | 6017W5PAR**68**E20X |
| 21WA4 | | | | | 3 | 621WA4SAR**68**E20X | 621WA4PAR**68**E20X |
| 25W3 | | | | | 3 | 6025W3SAR**68**E20X | 6025W3PAR**68**E20X |
| 27W2 | | | | | 3 | 6027W2SAR**68**E20X | 6027W2PAR**68**E20X |
| 24W7 | | | | | 3 | 6024W7SAR**68**E20X | 6024W7PAR**68**E20X |
| 36W4 | | | | | 3 | 6036W4SAR**68**E20X | 6036W4PAR**68**E20X |
| 43W2 | | | | | 3 | 6043W2SAR**68**E20X | 6043W2PAR**68**E20X |
| 47W1 | | | | | 3 | 6047W1SAR**68**E20X | 6047W1PAR**68**E20X |

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

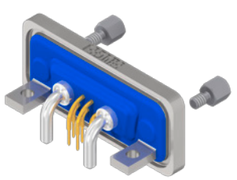
For other Power contacts select code from spread sheet

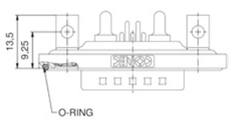
| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

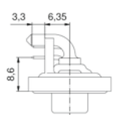
## IP67 Combination D-SUB Connectors
### With signal & high power contacts 15 A

### Solder pin angled, .338"/8.6 mm
### Precision machined contacts, metal bracket

4-40 UNC threaded insert






| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 15 | 250 | E202784 | 3 | 6005W1SAT**59**S20X | 6005W1PAT**59**S20X |
| 7W2 | | | | | 3 | 6007W2SAT**59**S20X | 6007W2PAT**59**S20X |
| 11W1 | | | | | 3 | 6011W1SAT**59**S20X | 6011W1PAT**59**S20X |
| 9W4 | | | | | 3 | 6009W4SAT**59**S20X | 6009W4PAT**59**S20X |
| 13W3 | | | | | 3 | 6013W3SAT**59**S20X | 6013W3PAT**59**S20X |
| 17W2 | | | | | 3 | 6017W2SAT**59**S20X | 6017W2PAT**59**S20X |
| 21W1 | | | | | 3 | 6021W1SAT**59**S20X | 6021W1PAT**59**S20X |
| 13W6 | | | | | 3 | 6013W6SAT**59**S20X | 6013W6PAT**59**S20X |
| 17W5 | | | | | 3 | 6017W5SAT**59**S20X | 6017W5PAT**59**S20X |
| 21WA4 | | | | | 3 | 621WA4SAT**59**S20X | 621WA4PAT**59**S20X |
| 25W3 | | | | | 3 | 6025W3SAT**59**S20X | 6025W3PAT**59**S20X |
| 27W2 | | | | | 3 | 6027W2SAT**59**S20X | 6027W2PAT**59**S20X |
| 24W7 | | | | | 3 | 6024W7SAT**81**S20X | 6024W7PAT**81**S20X |
| 36W4 | | | | | 3 | 6036W4SAT**81**S20X | 6036W4PAT**81**S20X |
| 43W2 | | | | | 3 | 6043W2SAT**81**S20X | 6043W2PAT**81**S20X |
| 47W1 | | | | | 3 | 6047W1SAT**81**S20X | 6047W1PAT**81**S20X |

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

For other Power contacts select code from spread sheet

| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |
| 81 | 5 | 20 A | 2.85 |
| 82 | 5 | 30 A | 3.20 |
| 85 | 5 | 30 A | 3.20 |
| 77 | 5 | 40 A | 3.75 |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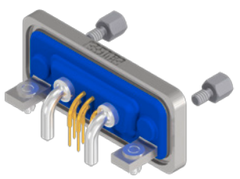
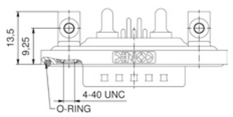
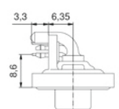
# IP67 Combination D-SUB Connectors
## With signal & high power contacts 15 A

### Solder pin angled, .338"/8.6 mm
### Precision machined contacts, metal bracket with PCB clip

Clip for PCB 1.6 mm, 4-40 UNC threaded insert





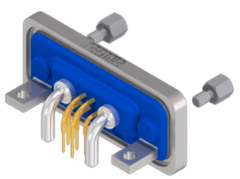

| For other Power contacts select code from spread sheet | | | |
|---|---|---|---|
| Code | Shellsize | Current rating | Diameter solder pin |
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |
| 81 | 5 | 20 A | 2.85 |
| 82 | 5 | 30 A | 3.20 |
| 85 | 5 | 30 A | 3.20 |
| 77 | 5 | 40 A | 3.75 |

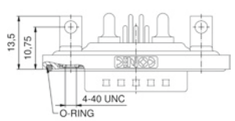
*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

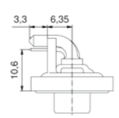
| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 15 | 250 | E202784 | 3 | 6005W1SAT59S40X | 6005W1PAT59S40X |
| 7W2 | | | | | 3 | 6007W2SAT59S40X | 6007W2PAT59S40X |
| 11W1 | | | | | 3 | 6011W1SAT59S40X | 6011W1PAT59S40X |
| 9W4 | | | | | 3 | 6009W4SAT59S40X | 6009W4PAT59S40X |
| 13W3 | | | | | 3 | 6013W3SAT59S40X | 6013W3PAT59S40X |
| 17W2 | | | | | 3 | 6017W2SAT59S40X | 6017W2PAT59S40X |
| 21W1 | | | | | 3 | 6021W1SAT59S40X | 6021W1PAT59S40X |
| 13W6 | | | | | 3 | 6013W6SAT59S40X | 6013W6PAT59S40X |
| 17W5 | | | | | 3 | 6017W5SAT59S40X | 6017W5PAT59S40X |
| 21WA4 | | | | | 3 | 621WA4SAT59S40X | 621WA4PAT59S40X |
| 25W3 | | | | | 3 | 6025W3SAT59S40X | 6025W3PAT59S40X |
| 27W2 | | | | | 3 | 6027W2SAT59S40X | 6027W2PAT59S40X |
| 24W7 | | | | | 3 | 6024W7SAT81S40X | 6024W7PAT81S40X |
| 36W4 | | | | | 3 | 6036W4SAT81S40X | 6036W4PAT81S40X |
| 43W2 | | | | | 3 | 6043W2SAT81S40X | 6043W2PAT81S40X |
| 47W1 | | | | | 3 | 6047W1SAT81S40X | 6047W1PAT81S40X |

### Solder pin angled, .417"/10.6 mm
### Precision machined contacts, metal bracket

4-40 UNC threaded insert






| For other Power contacts select code from spread sheet | | | |
|---|---|---|---|
| Code | Shellsize | Current rating | Diameter solder pin |
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |
| 81 | 5 | 20 A | 2.85 |
| 82 | 5 | 30 A | 3.20 |
| 85 | 5 | 30 A | 3.20 |
| 77 | 5 | 40 A | 3.75 |

| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 15 | 250 | E202784 | 3 | 6005W1SAU59R20X | 6005W1PAU59R20X |
| 7W2 | | | | | 3 | 6007W2SAU59R20X | 6007W2PAU59R20X |
| 11W1 | | | | | 3 | 6011W1SAU59R20X | 6011W1PAU59R20X |
| 9W4 | | | | | 3 | 6009W4SAU59R20X | 6009W4PAU59R20X |
| 13W3 | | | | | 3 | 6013W3SAU59R20X | 6013W3PAU59R20X |
| 17W2 | | | | | 3 | 6017W2SAU59R20X | 6017W2PAU59R20X |
| 21W1 | | | | | 3 | 6021W1SAU59R20X | 6021W1PAU59R20X |
| 13W6 | | | | | 3 | 6013W6SAU59R20X | 6013W6PAU59R20X |
| 17W5 | | | | | 3 | 6017W5SAU59R20X | 6017W5PAU59R20X |
| 21WA4 | | | | | 3 | 621WA4SAU59R20X | 621WA4PAU59R20X |
| 25W3 | | | | | 3 | 6025W3SAU59R20X | 6025W3PAU59R20X |
| 27W2 | | | | | 3 | 6027W2SAU59R20X | 6027W2PAU59R20X |
| 24W7 | | | | | 3 | 6024W7SAU81R20X | 6024W7PAU81R20X |
| 36W4 | | | | | 3 | 6036W4SAU81R20X | 6036W4PAU81R20X |
| 43W2 | | | | | 3 | 6043W2SAU81R20X | 6043W2PAU81R20X |
| 47W1 | | | | | 3 | 6047W1SAU81R20X | 6047W1PAU81R20X |



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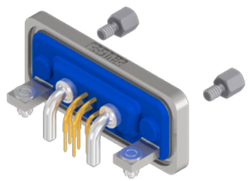
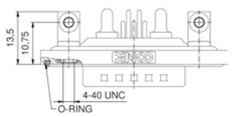
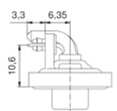
## IP67 Combination D-SUB Connectors
### With signal & high power contacts 15 A

### Solder pin angled, .417"/10.6 mm
### Precision machined contacts, metal bracket with PCB clip

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 15 | 250 | E202784 | 3 | 6005W1SAU**59**R40X | 6005W1PAU**59**R40X |
| 7W2 | | | | | 3 | 6007W2SAU**59**R40X | 6007W2PAU**59**R40X |
| 11W1 | | | | | 3 | 6011W1SAU**59**R40X | 6011W1PAU**59**R40X |
| 9W4 | | | | | 3 | 6009W4SAU**59**R40X | 6009W4PAU**59**R40X |
| 13W3 | | | | | 3 | 6013W3SAU**59**R40X | 6013W3PAU**59**R40X |
| 17W2 | | | | | 3 | 6017W2SAU**59**R40X | 6017W2PAU**59**R40X |
| 21W1 | | | | | 3 | 6021W1SAU**59**R40X | 6021W1PAU**59**R40X |
| 13W6 | | | | | 3 | 6013W6SAU**59**R40X | 6013W6PAU**59**R40X |
| 17W5 | | | | | 3 | 6017W5SAU**59**R40X | 6017W5PAU**59**R40X |
| 21WA4 | | | | | 3 | 621WA4SAU**59**R40X | 621WA4PAU**59**R40X |
| 25W3 | | | | | 3 | 6025W3SAU**59**R40X | 6025W3PAU**59**R40X |
| 27W2 | | | | | 3 | 6027W2SAU**59**R40X | 6027W2PAU**59**R40X |
| 24W7 | | | | | 3 | 6024W7SAU**81**R40X | 6024W7PAU**81**R40X |
| 36W4 | | | | | 3 | 6036W4SAU**81**R40X | 6036W4PAU**81**R40X |
| 43W2 | | | | | 3 | 6043W2SAU**81**R40X | 6043W2PAU**81**R40X |
| 47W1 | | | | | 3 | 6047W1SAU**81**R40X | 6047W1PAU**81**R40X |

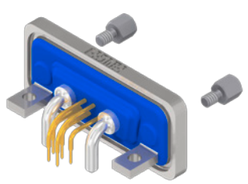
For other Power contacts select code from spread sheet

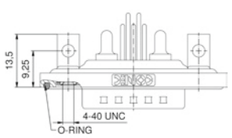
| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |
| 81 | 5 | 20 A | 2.85 |
| 82 | 5 | 30 A | 3.20 |
| 85 | 5 | 30 A | 3.20 |
| 77 | 5 | 40 A | 3.75 |

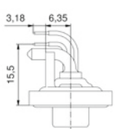
## IP67 Combination D-SUB Connectors
### With signal & high power contacts 15 A

### Solder pin angled, .610"/15.5 mm
### Precision machined contacts, metal bracket

**4-40 UNC threaded insert**






*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*
- *Shellsize 5 on request*

| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 5W1 | 75 (UL) / 5 (CSA, VDE) | 15 | 250 | E202784 | 3 | 6005W1SAZ**59**S20X | 6005W1PAZ**59**S20X |
| 7W2 | | | | | 3 | 6007W2SAZ**59**S20X | 6007W2PAZ**59**S20X |
| 11W1 | | | | | 3 | 6011W1SAZ**59**S20X | 6011W1PAZ**59**S20X |
| 9W4 | | | | | 3 | 6009W4SAZ**59**S20X | 6009W4PAZ**59**S20X |
| 13W3 | | | | | 3 | 6013W3SAZ**59**S20X | 6013W3PAZ**59**S20X |
| 17W2 | | | | | 3 | 6017W2SAZ**59**S20X | 6017W2PAZ**59**S20X |
| 21W1 | | | | | 3 | 6021W1SAZ**59**S20X | 6021W1PAZ**59**S20X |
| 13W6 | | | | | 3 | 6013W6SAZ**59**S20X | 6013W6PAZ**59**S20X |
| 17W5 | | | | | 3 | 6017W5SAZ**59**S20X | 6017W5PAZ**59**S20X |
| 21WA4 | | | | | 3 | 621WA4SAZ**59**S20X | 621WA4PAZ**59**S20X |
| 25W3 | | | | | 3 | 6025W3SAZ**59**S20X | 6025W3PAZ**59**S20X |
| 27W2 | | | | | 3 | 6027W2SAZ**59**S20X | 6027W2PAZ**59**S20X |

For other Power contacts select code from spread sheet

| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |
| 81 | 5 | 20 A | 2.85 |
| 82 | 5 | 30 A | 3.20 |
| 85 | 5 | 30 A | 3.20 |
| 77 | 5 | 40 A | 3.75 |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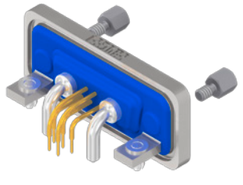
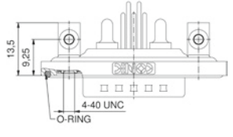
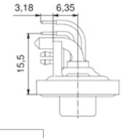
## IP67 Combination D-SUB Connectors
### With signal & high power contacts 15 A

### Solder pin angled, .610"/15.5 mm
### Precision machined contacts, metal bracket with PCB clip

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






For other Power contacts select code from spread sheet

| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |
| 81 | 5 | 20 A | 2.85 |
| 82 | 5 | 30 A | 3.20 |
| 85 | 5 | 30 A | 3.20 |
| 77 | 5 | 40 A | 3.75 |

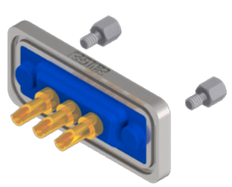
*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*
- *Shellsize 5 on request*

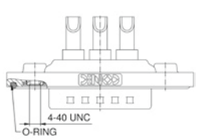
| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 5W1 | 7.5 (UL) / 5 (CSA VDE) | 15 | 250 | E202784 | 3 | 6005W1SAZ59S40X | 6005W1PAZ59S40X |
| 7W2 | | | | | 3 | 6007W2SAZ59S40X | 6007W2PAZ59S40X |
| 11W1 | | | | | 3 | 6011W1SAZ59S40X | 6011W1PAZ59S40X |
| 9W4 | | | | | 3 | 6009W4SAZ59S40X | 6009W4PAZ59S40X |
| 13W3 | | | | | 3 | 6013W3SAZ59S40X | 6013W3PAZ59S40X |
| 17W2 | | | | | 3 | 6017W2SAZ59S40X | 6017W2PAZ59S40X |
| 21W1 | | | | | 3 | 6021W1SAZ59S40X | 6021W1PAZ59S40X |
| 13W6 | | | | | 3 | 6013W6SAZ59S40X | 6013W6PAZ59S40X |
| 17W5 | | | | | 3 | 6017W5SAZ59S40X | 6017W5PAZ59S40X |
| 21WA4 | | | | | 3 | 621WA4SAZ59S40X | 621WA4PAZ59S40X |
| 25W3 | | | | | 3 | 6025W3SAZ59S40X | 6025W3PAZ59S40X |
| 27W2 | | | | | 3 | 6027W2SAZ59S40X | 6027W2PAZ59S40X |

## IP67 Combination D-SUB Connectors
### With high power contacts 10 A

### Solder cup straight
### Precision machined contacts

**4-40 UNC threaded insert**





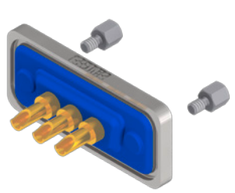

For other Power contacts select code from spread sheet

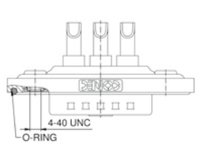
| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

| No. of poles | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 3W3 | 10 | 250 | E202784 | 3 | 6003W3SXX61B30X | 6003W3PXX61B30X |
| 5W5 | | 250 | | | 6005W5SXX61B30X | 6005W5PXX61B30X |
| 8W8 | | 250 | | | 6008W8SXX61B30X | 6008W8PXX61B30X |

**4-40 UNC threaded insert, coded version**






For other Power contacts select code from spread sheet

| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |

| No. of poles | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 2W2C | 10 | 250 | E202784 | 3 | 602W2CSXX61B30X | 602W2CPXX61B30X |
| 3W3C | | 250 | | | 603W3CSXX61B30X | 603W3CPXX61B30X |



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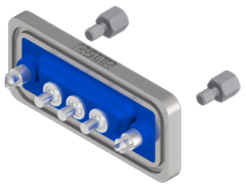
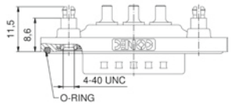
# IP67 Combination D-SUB Connectors
## With high power contacts 10 A

### Solder pin straight
### Precision machined contacts

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**



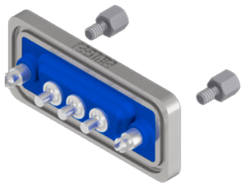


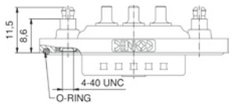

For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| *No. of poles* | *Current rating high power contacts [A]* | *Working voltage [V]* | *UL-File* | *Quality class* | *Part No. Socket contact* | *Part No. Plug contact* |
|---|---|---|---|---|---|---|
| 3W3 | 20 | 250 | E202784 | 3 | 6003W3SXX**68**E20X | 6003W3PXX**68**E20X |
| 5W5 | | 250 | | | 6005W5SXX**68**E20X | 6005W5PXX**68**E20X |
| 8W8 | | 250 | | | 6008W8SXX**68**E20X | 6008W8PXX**68**E20X |

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm, coded version**






For other Power contacts select code from spread sheet

| Code | Current rating | Diameter solder pin |
|---|---|---|
| 68 | 20 A | 1.95 |
| 69 | 20 A | 2.60 |
| 70 | 20 A | 2.85 |
| 71 | 30 A | 3.18 |
| 72 | 40 A | 3.75 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2W2C | 20 | 250 | E202784 | 3 | 602W2CSXX**68**E20X | 602W2CPXX**68**E20X |
| 3W3C | | 250 | | | 603W3CSXX**68**E20X | 603W3CPXX**68**E20X |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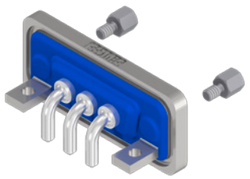
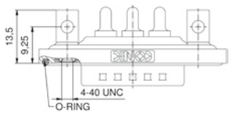
# IP67 Combination D-SUB Connectors
## With high power contacts 15 A

### Solder pin angled
### Precision machined contacts, metal bracket

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**



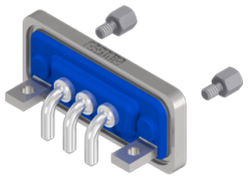


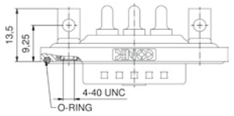

For other Power contacts select code from spread sheet

| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |

| No. of poles | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 3W3 | 15 | 250 | E202784 | 3 | 6003W3SXX**59**S20X | 6003W3PXX**59**S20X |
| 5W5 | | 250 | | | 6005W5SXX**59**S20X | 6005W5PXX**59**S20X |
| 8W8 | | 250 | | | 6008W8SXX**59**S20X | 6008W8PXX**59**S20X |

**4-40 UNC threaded insert, coded version**





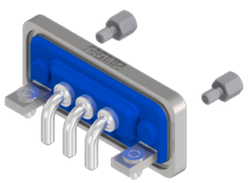

For other Power contacts select code from spread sheet

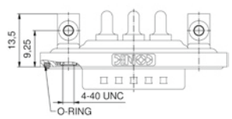
| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |

| No. of poles | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 2W2C | 15 | 250 | E202784 | 3 | 602W2CSXX**59**S20X | 602W2CPXX**59**S20X |
| 3W3C | | 250 | | | 603W3CSXX**59**S20X | 603W3CPXX**59**S20X |

### Solder pin angled
### Precision machined contacts, metal bracket with PCB clip

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






For other Power contacts select code from spread sheet

| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |

| No. of poles | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 3W3 | 15 | 250 | E202784 | 3 | 6003W3SXX**59**S40X | 6003W3PXX**59**S40X |
| 5W5 | | 250 | | | 6005W5SXX**59**S40X | 6005W5PXX**59**S40X |
| 8W8 | | 250 | | | 6008W8SXX**59**S40X | 6008W8PXX**59**S40X |



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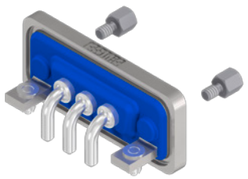
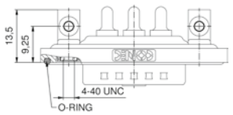
## IP67 Combination D-SUB Connectors
### With high power contacts 15 A

### Solder pin angled
### Precision machined contacts, metal bracket with PCB clip

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version**






| No. of poles | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 2W2C | 15 | 250 | E202784 | 3 | 602W2CSXX**59**S40X | 602W2CPXX**59**S40X |
| 3W3C | | 250 | | | 603W3CSXX**59**S40X | 603W3CPXX**59**S40X |

For other Power contacts select code from spread sheet

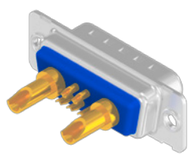
| Code | Shellsize | Current rating | Diameter solder pin |
|---|---|---|---|
| 59 | 1-4 | 15 A | 1.90 |
| 73 | 1-4 | 20 A | 2.85 |
| 74 | 1-4 | 30 A | 3.20 |
| 75 | 1-4 | 40 A | 3.75 |

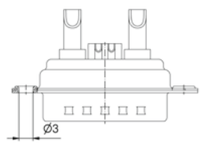
## IP67 Combination D-SUB Connectors
### Without frame, with signal & high power contacts 20 A

### Solder cup straight
### Precision machined contacts, design for use with hood

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*

**Through-hole Ø 3 mm**






| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 9W4 | 75 (UL) / 5 (CSA, VDE) | 10 | 250 | E202784 | 3 | 4005W1SAM**61**A10X | 4005W1PAM**61**A10X |
| 7W2 | | | | | 3 | 4007W2SAM**61**A10X | 4007W2PAM**61**A10X |
| 17W5 | | | | | 3 | 4011W1SAM**61**A10X | 4011W1PAM**61**A10X |
| 9W4 | | | | | 3 | 4009W4SAM**61**A10X | 4009W4PAM**61**A10X |
| 21W1 | | | | | 3 | 4013W3SAM**61**A10X | 4013W3PAM**61**A10X |
| 24W7 | | | | | 3 | 4017W2SAM**61**A10X | 4017W2PAM**61**A10X |
| 27W2 | | | | | 3 | 4021W1SAM**61**A10X | 4021W1PAM**61**A10X |
| 24W7 | | | | | 3 | 4013W6SAM**61**A10X | 4013W6PAM**61**A10X |
| 25W3 | | | | | 3 | 4017W5SAM**61**A10X | 4017W5PAM**61**A10X |
| 21WA4 | | | | | 3 | 421WA4SAM**61**A10X | 421WA4PAM**61**A10X |
| 43W2 | | | | | 3 | 4025W3SAM**61**A10X | 4025W3PAM**61**A10X |
| 47W1 | | | | | 3 | 4027W2SAM**61**A10X | 4027W2PAM**61**A10X |
| 36W4 | | | | | 3 | 4024W7SAM**61**A10X | 4024W7PAM**61**A10X |
| 21WA4 | | | | | 3 | 4036W4SAM**61**A10X | 4036W4PAM**61**A10X |
| 43W2 | | | | | 3 | 4043W2SAM**61**A10X | 4043W2PAM**61**A10X |
| 47W1 | | | | | 3 | 4047W1SAM**61**A10X | 4047W1PAM**61**A10X |

For other Power contacts select code from spread sheet

| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |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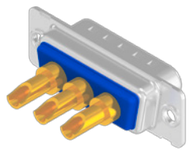
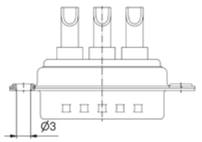
## IP67 Combination D-SUB Connectors
### Without frame, with high power contacts 10 A

### Solder cup straight
### Precision machined contacts, design for use with hood

*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cyles*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*

**Through-hole Ø 3 mm**



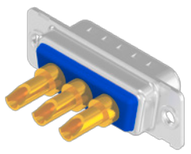


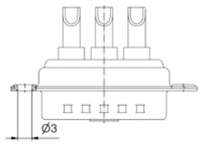

For other Power contacts select code from spread sheet

| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |

| No. of poles | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 8W8 | 10 | 250 | E202784 | 3 | 4003W3SXX**61**A10X | 4003W3PXX**61**A10X |
| 11W1 | | 250 | | | 4005W5SXX**61**A10X | 4005W5PXX**61**A10X |
| 13W3 | | 250 | | | 4008W8SXX**61**A10X | 4008W8PXX**61**A10X |

**Through-hole Ø 3 mm, coded version**






For other Power contacts select code from spread sheet

| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |

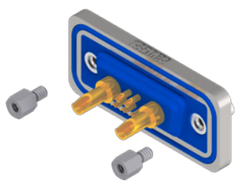
| No. of poles | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 2W2C | 10 | 250 | E202784 | 3 | 402W2CSXX**61**A10X | 402W2CPXX**61**A10X |
| 3W3C | | 250 | | | 403W3CSXX**61**A10X | 403W3CPXX**61**A10X |

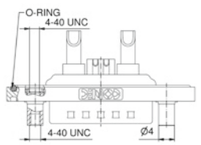
## IP67 Combination D-SUB Connectors
### Front panel mounting, with signal & high power contacts

### Solder cup straight
### Precision machined contacts

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**Front spacer 4-40 UNC**






For other Power contacts select code from spread sheet

| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |

| No. of poles | Current rating signal contacts [A] | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|
| 5W1 | 7.5 (UL) / 5 (CSA, VDE) | 10 | 250 | E202784 | 3 | 6005W1SAM**61**B50X | 6005W1PAM**61**B50X |
| 7W2 | | | | | 3 | 6007W2SAM**61**B50X | 6007W2PAM**61**B50X |
| 11W1 | | | | | 3 | 6011W1SAM**61**B50X | 6011W1PAM**61**B50X |
| 9W4 | | | | | 3 | 6009W4SAM**61**B50X | 6009W4PAM**61**B50X |
| 13W3 | | | | | 3 | 6013W3SAM**61**B50X | 6013W3PAM**61**B50X |
| 17W2 | | | | | 3 | 6017W2SAM**61**B50X | 6017W2PAM**61**B50X |
| 21W1 | | | | | 3 | 6021W1SAM**61**B50X | 6021W1PAM**61**B50X |
| 13W6 | | | | | 3 | 6013W6SAM**61**B50X | 6013W6PAM**61**B50X |
| 17W5 | | | | | 3 | 6017W5SAM**61**B50X | 6017W5PAM**61**B50X |
| 21WA4 | | | | | 3 | 621WA4SAM**61**B50X | 621WA4PAM**61**B50X |
| 25W3 | | | | | 3 | 6025W3SAM**61**B50X | 6025W3PAM**61**B50X |
| 27W2 | | | | | 3 | 6027W2SAM**61**B50X | 6027W2PAM**61**B50X |
| 24W7 | | | | | 3 | 6024W7SAM**61**B50X | 6024W7PAM**61**B50X |
| 36W4 | | | | | 3 | 6036W4SAM**61**B50X | 6036W4PAM**61**B50X |
| 43W2 | | | | | 3 | 6043W2SAM**61**B50X | 6043W2PAM**61**B50X |
| 47W1 | | | | | 3 | 6047W1SAM**61**B50X | 6047W1PAM**61**B50X |



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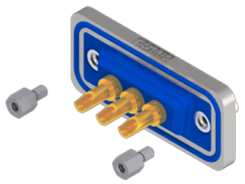
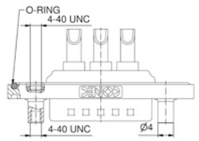
# IP67 Combination D-SUB Connectors 20 A
## Front panel mounting, with high power contacts

### Solder cup straight
### Precision machined contacts

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cyles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

#### Front spacer 4-40 UNC



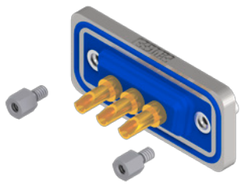


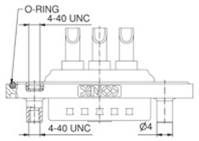

| No. of poles | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 3W3 | 10 | 250 | E202784 | 3 | 6003W3SXX**61**B50X | 6003W3PXX**61**B50X |
| 5W5 | | 250 | | | 6005W5SXX**61**B50X | 6005W5PXX**61**B50X |
| 8W8 | | 250 | | | 6008W8SXX**61**B50X | 6008W8PXX**61**B50X |

For other Power contacts select code from spread sheet

| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |

#### Front spacer 4-40 UNC, coded version






| No. of poles | Current rating high power contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|
| 2W2C | 10 | 250 | E202784 | 3 | 602W2CSXX**61**B50X | 602W2CPXX**61**B50X |
| 3W3C | | 250 | | | 603W3CSXX**61**B50X | 603W3CPXX**61**B50X |

For other Power contacts select code from spread sheet

| Code | AWG | Current rating |
|---|---|---|
| 61 | 16-20 | 10 A |
| 62 | 12-14 | 20 A |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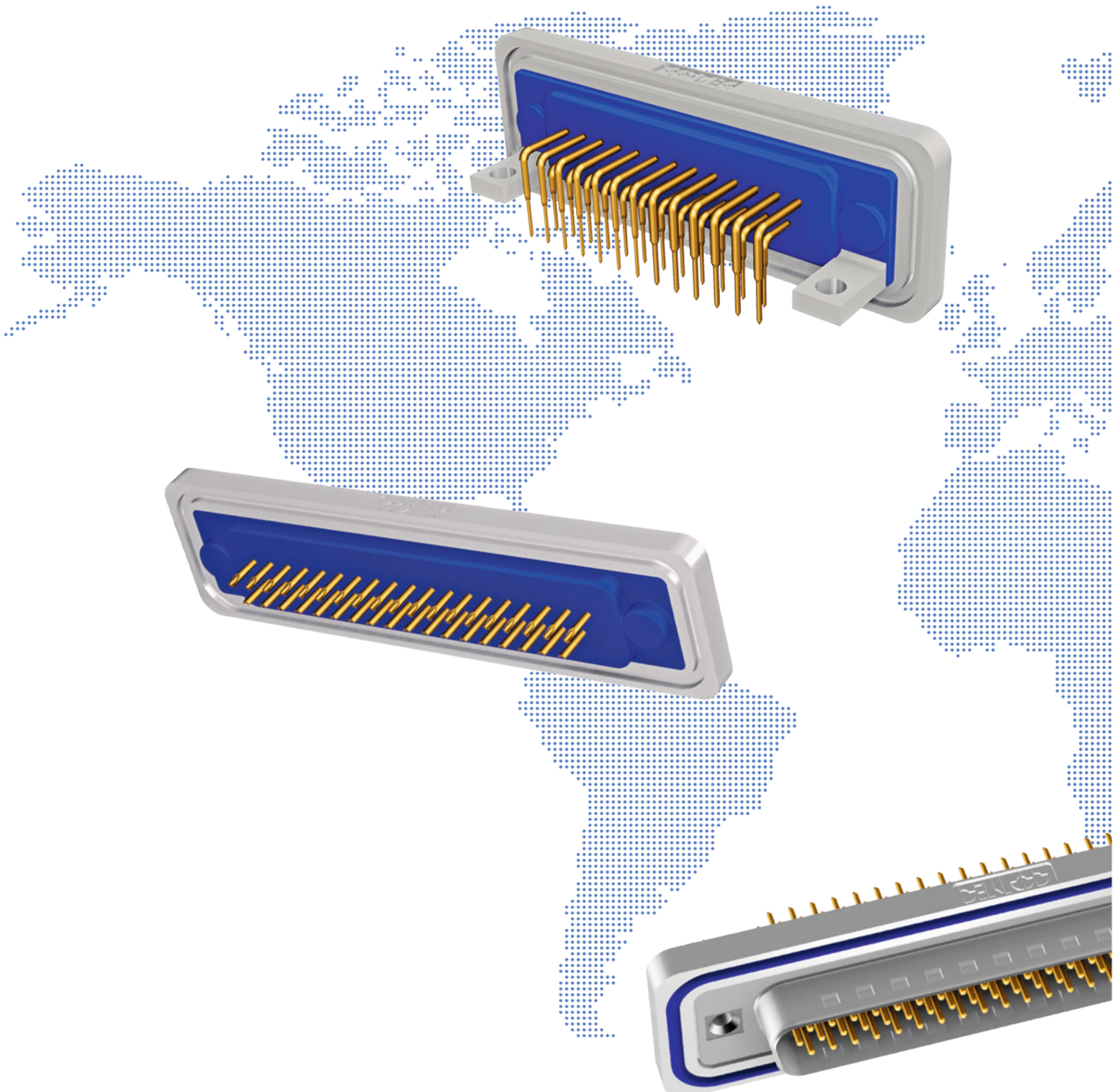
Section 8

# IP67 Filter D-SUB Connectors



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# IP67 Filter D-SUB Connectors

## Part Number Creator

6 S T F 0 9 P A M 0 4 B 3 O X

**Product Line**
4* = Shell brass tin plated with plastic frame or without frame
6 = Shell brass tin plated with metal frame (Standard)
(*on request)

**Variations**
STF = D-Subminiatur Standard filtered
HDF = D-Subminiatur High Density filtered

| No. of pos. for STF | | No. of pos. for HDF | |
|---|---|---|---|
| 09 | = 09-pos. | 15 | = 15-pos. |
| 15 | = 15-pos. | 26 | = 26-pos. |
| 25 | = 25-pos. | 44 | = 44-pos. |
| 37 | = 37-pos. | 62 | = 62-pos. |
| 50 | = 50-pos. | 78 | = 78-pos. |

P = Plug connector (Standard)
(Socket connector on rquest)

**Quality class / Plating code for contacts**
A = Quality class 3 = 50 mating cycles
B = Quality class 2 = 200 mating cycles
C = Quality class 1 = 500 mating cycles

**Termination**
M = Solder cup only for STF
R = Solder pin, straight
T = Solder pin, angled, 4.80 mm only for STF
U = Solder pin, angled, 7.00 mm only for STF
Z = Solder pin, angled, 11.80 mm only for STF
Y = Solder pin, angled, 5.60 mm only for HDF

**Capacitance**
03 = 370 pF ± 20% tolerance
04 = 830 pF ± 20% tolerance
05* = 1300 pF ± 20% tolerance * not applicable for HDF

**Mounting style**
A1 = Riveted through hole for cable mount / Shell without sealing frame
B3 = 4-40 UNC threaded insert
B5 = Threaded lock for 4-40 UNC front mounting
E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" / 1.60 mm
S2 = Metal bracket 4-40 UNC threaded insert
S4 = Metal bracket 4-40 UNC threaded insert and PCB clip
R2 = Metal bracket 4-40 UNC threaded insert
R4 = Metal bracket 4-40 UNC threaded insert and PCB clip

OX = Standard


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# IP67 Filter D-SUB Connectors

## Product specification

| Basic material | IP67 Filter D-SUB Standard<br>9-, 15-, 25-, 37- , 50-pos. | IP67 Filter D-SUB High Density<br>15-, 26-, 44-, 62-pos. | IP67 Filter D-SUB SlimCon<br>9-, 15-, 25-pos. |
|---|---|---|---|
| Contact | Copper alloy | | |
| Contact plating | Gold over nickel | | |
| Insulator | PBT GF UL94 V-0 | | |
| Shell | Brass tin plated | | Zinc die-cast nickel plated |
| Seal | O-Ring Silicone | | Sealing Gasket Silicone or EMC |
| **Technical Data** | | | |
| Dielectric with standing voltage | 424 V DC | 300 V DC | 424 V DC |
| Working voltage | 100 V DC*<br>*depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1 | | |
| Voltage surge 10/700 µs | 300 V | | |
| Current rating | 7.5 A (UL) / 5 A (CSA, VDE) | 3 A (UL, VDE) / 2,5 A (CSA) | 5 A |
| Contact resistance | max. 10 mΩ prior to stressing ΔR max. 10 mΩ after stressing per IEC 60807-2 | | |
| Insulation resistance | ≥ 1 GΩ | | |
| Capacitor Values | 370 pF ± 20 %<br>830 pF ± 20 %<br>1300 pF ± 20 % | 370 pF ± 20 %<br>830 pF ± 20 % | 370 pF ± 20 %<br>820 pF ± 20 %<br>1200 pF ± 20 % |
| | other capacitor values on request | | |
| Operating temperature | -25 °C bis/to +105 °C | -25 °C bis/to +85 °C | -40 °C bis/to +105 °C |
| Humidity | 40 °C / 85% Relative humidity | | |
| Mating and unmating forces | 9-pos. ≤ 30 N<br>15-pos. ≤ 50 N<br>25-pos. ≤ 83 N<br>37-pos. ≤ 123 N<br>50-pos. ≤ 167 N | 15-pos. ≤ 50 N<br>26-pos. ≤ 84 N<br>44-pos. ≤ 120 N<br>67-pos. ≤ 170 N | 9-pos. ≤ 30 N<br>15-pos. ≤ 50 N<br>25-pos. ≤ 83 N |
| Quality class | A = Quality class 3 = 50 mating cycles<br>B = Quality class 2 = 200 mating cycles<br>C = Quality class 1 = 500 mating cycles | | |

| Recommended wavesolder parameters | Preheating | | Solder termial dipping parameters | |
|---|---|---|---|---|
| | max. temperature | duration (max.) | max. Solder bath temperature | max. terminal immersion time |
| IP67 Filter D-SUB Standard | 100 °C | 30 s | 260 °C | 5 s |
| IP67 Filter D-SUB High Density | 100 °C | 30 s | 260 °C | 5 s |
| IP67 Filter D-SUB SlimCon | 150 °C | 180 s | 265 °C | 8 s |

Technical specifications are subject to change without notice



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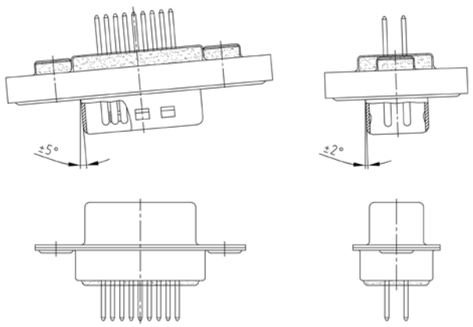
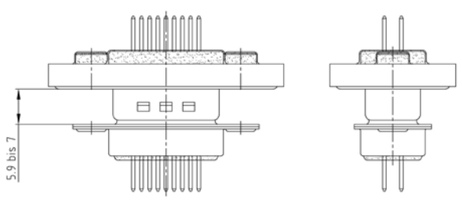
## Mating conditions

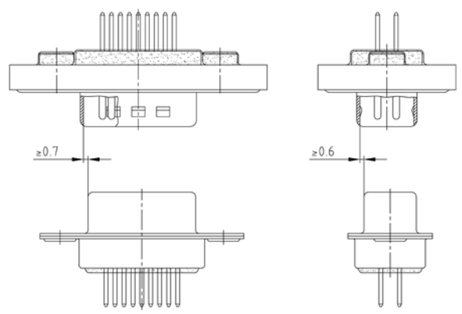
### Max. tilt angle for connector mating




### Range for safe contact

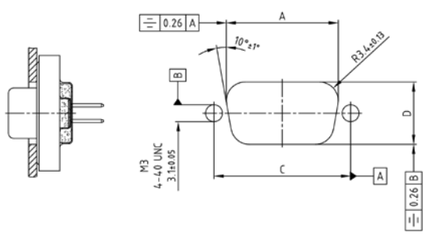



### Lock-in range

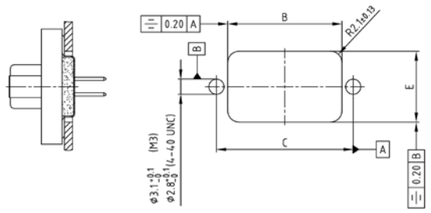



## Panel cut-out

### Rear panel mounting




### Front panel mounting




| Shell size | A ± 0.1 | B ± 0.1 | C ± 0.1 | D ± 0.1 | E ± 0.1 |
|---|---|---|---|---|---|
| 9 | 20.50 | 20.90 | 25.00 | 11.40 | 13.00 |
| 15 | 28.80 | 29.20 | 33.30 | 11.40 | 13.00 |
| 25 | 42.50 | 42.90 | 47.04 | 11.40 | 13.00 |
| 37 | 59.10 | 59.40 | 63.50 | 11.40 | 13.00 |
| 50 | 56.30 | 57.00 | 61.10 | 14.10 | 15.80 |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## Panel mounting

### Front panel mounting

### Back panel mounting

The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (Standard )/.051"/1.3 mm (CONEC SlimCon) such that it does not extend beyond the plug-in height.
Material: stainless steel.



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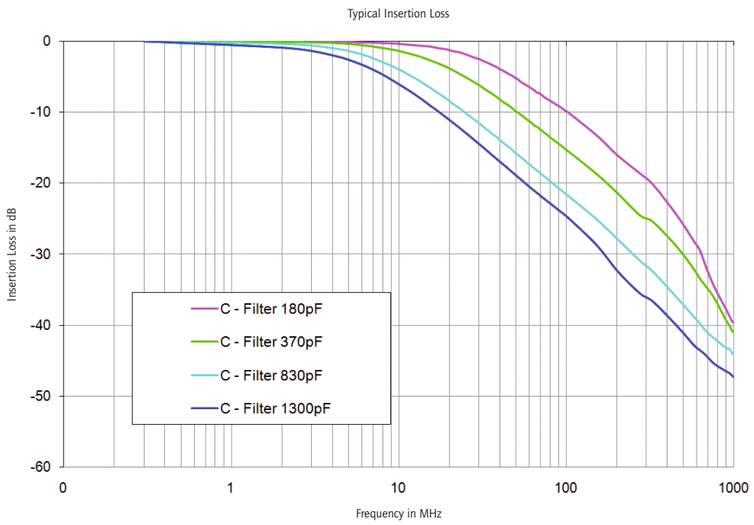
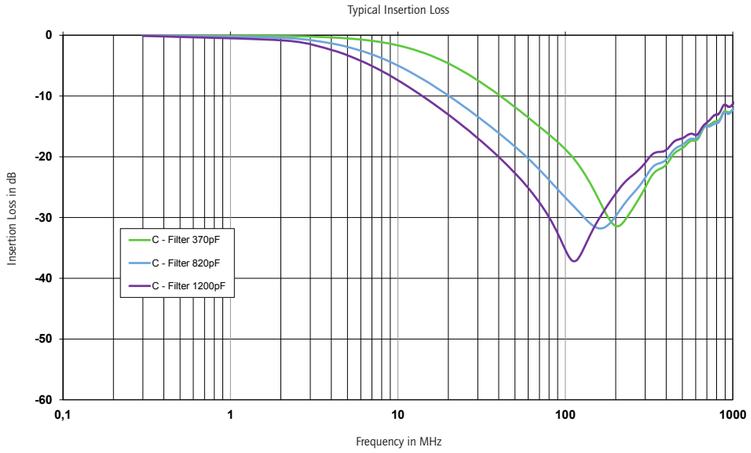
## Insertion loss

### C-Filter with planar filter technology




### C-Filter with chip technology (CONEC SlimCon)

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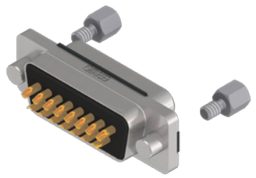
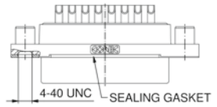
# IP67 Filter D-SUB Connectors
## CONEC SlimCon, C-Filter, Standard

### Solder cup
### Precision machined contacts, AWG20

*One-piece zinc die-cast nickel plated shell*
*EMC Gasket or Silicone Gasket*
*Quality class 3 (A) = 50 mating cycles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *Gaskets also available separately*

**4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V] | Quality class | Capacitance [pF] | EMC gasket | Silicone gasket | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 370 | ✓ | | 15-008983 | 15-008943 |
| 15 | | | | | | | 15-008993 | 15-008953 |
| 25 | | | | | | | 15-009003 | 15-008963 |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 820 | ✓ | | 15-009063 | 15-009023 |
| 15 | | | | | | | 15-009073 | 15-009033 |
| 25 | | | | | | | 15-009083 | 15-009043 |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 1200 | ✓ | | 15-009143 | 15-009103 |
| 15 | | | | | | | 15-009153 | 15-009113 |
| 25 | | | | | | | 15-009163 | 15-009123 |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 370 | | ✓ | 15-009463 | 15-009423 |
| 15 | | | | | | | 15-009473 | 15-009433 |
| 25 | | | | | | | 15-009483 | 15-009443 |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 820 | | ✓ | 15-009543 | 15-009503 |
| 15 | | | | | | | 15-009553 | 15-009513 |
| 25 | | | | | | | 15-009563 | 15-009523 |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 1200 | | ✓ | 15-009623 | 15-009583 |
| 15 | | | | | | | 15-009633 | 15-009593 |
| 25 | | | | | | | 15-009643 | 15-009603 |



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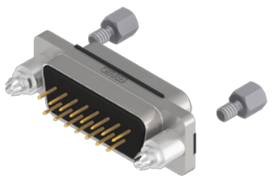
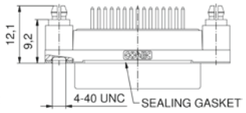
# IP67 Filter D-SUB Connectors
## CONEC SlimCon, C-Filter, Standard

### Solder pin, straight
### Precision machined contacts

*One-piece zinc die-cast nickel plated shell*
*EMC Gasket or Silicone Gasket*
*Quality class 3 (A) = 50 mating cycles*
*Stainless steel hex bolts are supplied loose*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *Gaskets also available separately*

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V] | Quality class | Capacitance [pF] | EMC gasket | Silicone gasket | Part No. Socket contact | Part No. Plug contact |
|---|---|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 370 | ✓ | | 15-009223 | 15-009183 |
| 15 | | | | | | | 15-009233 | 15-009193 |
| 25 | | | | | | | 15-009243 | 15-009203 |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 820 | ✓ | | 15-009303 | 15-009263 |
| 15 | | | | | | | 15-009313 | 15-009273 |
| 25 | | | | | | | 15-009323 | 15-009283 |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 1200 | ✓ | | 15-009383 | 15-009343 |
| 15 | | | | | | | 15-009393 | 15-009353 |
| 25 | | | | | | | 15-009403 | 15-009363 |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 370 | | ✓ | 15-009703 | 15-009663 |
| 15 | | | | | | | 15-009713 | 15-009673 |
| 25 | | | | | | | 15-009723 | 15-009683 |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 820 | | ✓ | 15-009783 | 15-009743 |
| 15 | | | | | | | 15-009793 | 15-009753 |
| 25 | | | | | | | 15-009803 | 15-009763 |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | 3 | 1200 | | ✓ | 15-009863 | 15-009823 |
| 15 | | | | | | | 15-009873 | 15-009833 |
| 25 | | | | | | | 15-009883 | 15-009843 |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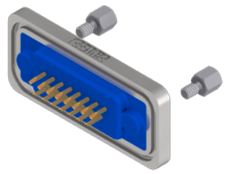
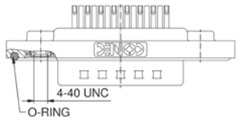
# IP67 Filter D-SUB Connectors
## Plug connector, C-Filter, Standard

### Solder cup
### Precision machined contacts, AWG 26

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cycles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**






| *No. of poles* | *Current rating [A]* | *Working voltage [V]* | *UL-File* | *Quality class* | *Capacitance [pF]* | *Part No.* |
|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA VDE) | 100 | E202784 | 3 | 370 | 6STF09PAM03B30X |
| 15 | | | | | | 6STF15PAM03B30X |
| 25 | | | | | | 6STF25PAM03B30X |
| 37 | | | | | | 6STF37PAM03B30X |
| 50 | | | | | | 6STF50PAM03B30X |
| 09 | 7.5 (UL) / 5 (CSA VDE) | 100 | E202784 | 3 | 830 | 6STF09PAM04B30X |
| 15 | | | | | | 6STF15PAM04B30X |
| 25 | | | | | | 6STF25PAM04B30X |
| 37 | | | | | | 6STF37PAM04B30X |
| 50 | | | | | | 6STF50PAM04B30X |
| 09 | 7.5 (UL) / 5 (CSA VDE) | 100 | E202784 | 3 | 1300 | 6STF09PAM05B30X |
| 15 | | | | | | 6STF15PAM05B30X |
| 25 | | | | | | 6STF25PAM05B30X |
| 37 | | | | | | 6STF37PAM05B30X |
| 50 | | | | | | 6STF50PAM05B30X |



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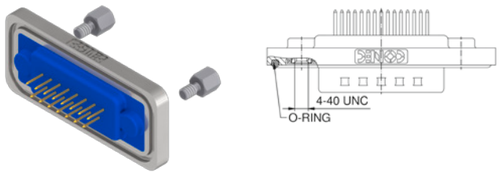
# IP67 Filter D-SUB Connectors
## Plug connector, C-Filter, Standard

### Solder pin, straight
### Precision machined contacts

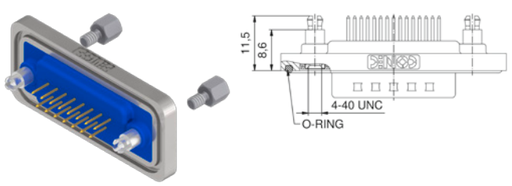
*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cycles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 6STF09PAR03B30X |
| 15 | | | | | | 6STF15PAR03B30X |
| 25 | | | | | | 6STF25PAR03B30X |
| 37 | | | | | | 6STF37PAR03B30X |
| 50 | | | | | | 6STF50PAR03B30X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 6STF09PAR04B30X |
| 15 | | | | | | 6STF15PAR04B30X |
| 25 | | | | | | 6STF25PAR04B30X |
| 37 | | | | | | 6STF37PAR04B30X |
| 50 | | | | | | 6STF50PAR04B30X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 6STF09PAR05B30X |
| 15 | | | | | | 6STF15PAR05B30X |
| 25 | | | | | | 6STF25PAR05B30X |
| 37 | | | | | | 6STF37PAR05B30X |
| 50 | | | | | | 6STF50PAR05B30X |

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 6STF09PAR03E20X |
| 15 | | | | | | 6STF15PAR03E20X |
| 25 | | | | | | 6STF25PAR03E20X |
| 37 | | | | | | 6STF37PAR03E20X |
| 50 | | | | | | 6STF50PAR03E20X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 6STF09PAR04E20X |
| 15 | | | | | | 6STF15PAR04E20X |
| 25 | | | | | | 6STF25PAR04E20X |
| 37 | | | | | | 6STF37PAR04E20X |
| 50 | | | | | | 6STF50PAR04E20X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 6STF09PAR05E20X |
| 15 | | | | | | 6STF15PAR05E20X |
| 25 | | | | | | 6STF25PAR05E20X |
| 37 | | | | | | 6STF37PAR05E20X |
| 50 | | | | | | 6STF50PAR05E20X |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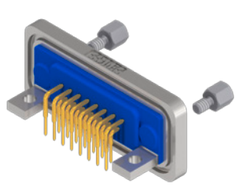
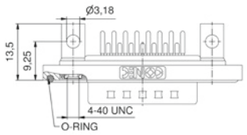
# IP67 Filter D-SUB Connectors
## Plug connector, C-Filter, Standard

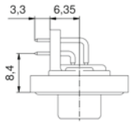
### Solder pin angled, .331"/8.4 mm
### Precision machined contacts, metal bracket

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cycles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

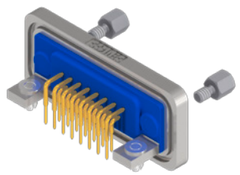


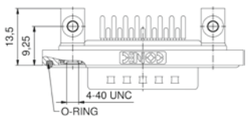


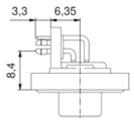




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 6STF09PAT03S20X |
| 15 | | | | | | 6STF15PAT03S20X |
| 25 | | | | | | 6STF25PAT03S20X |
| 37 | | | | | | 6STF37PAT03S20X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 6STF09PAT04S20X |
| 15 | | | | | | 6STF15PAT04S20X |
| 25 | | | | | | 6STF25PAT04S20X |
| 37 | | | | | | 6STF37PAT04S20X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 6STF09PAT05S20X |
| 15 | | | | | | 6STF15PAT05S20X |
| 25 | | | | | | 6STF25PAT05S20X |
| 37 | | | | | | 6STF37PAT05S20X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 6STF09PAT03S40X |
| 15 | | | | | | 6STF15PAT03S40X |
| 25 | | | | | | 6STF25PAT03S40X |
| 37 | | | | | | 6STF37PAT03S40X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 6STF09PAT04S40X |
| 15 | | | | | | 6STF15PAT04S40X |
| 25 | | | | | | 6STF25PAT04S40X |
| 37 | | | | | | 6STF37PAT04S40X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 6STF09PAT05S40X |
| 15 | | | | | | 6STF15PAT05S40X |
| 25 | | | | | | 6STF25PAT05S40X |
| 37 | | | | | | 6STF37PAT05S40X |



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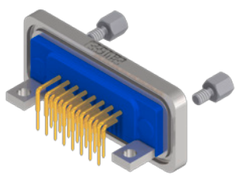
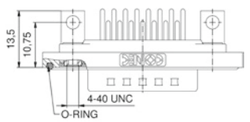
# IP67 Filter D-SUB Connectors
## Plug connector, C-Filter, Standard

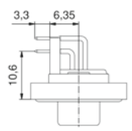
### Solder pin angled, .417"/10.6 mm
### Precision machined contacts, metal bracket

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cycles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

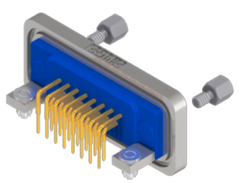


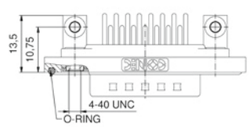


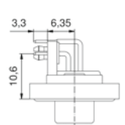




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 6STF09PAU03R20X |
| 15 | | | | | | 6STF15PAU03R20X |
| 25 | | | | | | 6STF25PAU03R20X |
| 37 | | | | | | 6STF37PAU03R20X |
| 50 | | | | | | 6STF50PAU03R20X |
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 6STF09PAU04R20X |
| 15 | | | | | | 6STF15PAU04R20X |
| 25 | | | | | | 6STF25PAU04R20X |
| 37 | | | | | | 6STF37PAU04R20X |
| 50 | | | | | | 6STF50PAU04R20X |
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 6STF09PAU05R20X |
| 15 | | | | | | 6STF15PAU05R20X |
| 25 | | | | | | 6STF25PAU05R20X |
| 37 | | | | | | 6STF37PAU05R20X |
| 50 | | | | | | 6STF50PAU05R20X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 6STF09PAU03R40X |
| 15 | | | | | | 6STF15PAU03R40X |
| 25 | | | | | | 6STF25PAU03R40X |
| 37 | | | | | | 6STF37PAU03R40X |
| 50 | | | | | | 6STF50PAU03R40X |
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 6STF09PAU04R40X |
| 15 | | | | | | 6STF15PAU04R40X |
| 25 | | | | | | 6STF25PAU04R40X |
| 37 | | | | | | 6STF37PAU04R40X |
| 50 | | | | | | 6STF50PAU04R40X |
| 09 | 7,5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 6STF09PAU05R40X |
| 15 | | | | | | 6STF15PAU05R40X |
| 25 | | | | | | 6STF25PAU05R40X |
| 37 | | | | | | 6STF37PAU05R40X |
| 50 | | | | | | 6STF50PAU05R40X |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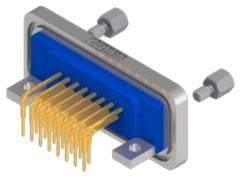
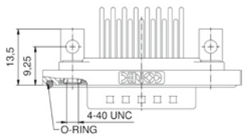
# IP67 Filter D-SUB Connectors
## Plug connector, C-Filter, Standard

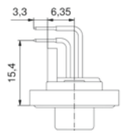
### Solder pin angled, .606"/15.4 mm
### Precision machined contacts, metal bracket

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cycles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

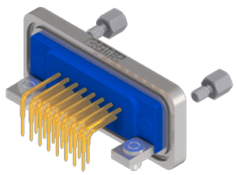


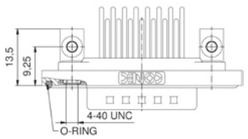


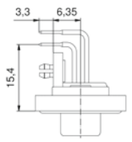




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 6STF09PAZ03S20X |
| 15 | | | | | | 6STF15PAZ03S20X |
| 25 | | | | | | 6STF25PAZ03S20X |
| 37 | | | | | | 6STF37PAZ03S20X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 6STF09PAZ04S20X |
| 15 | | | | | | 6STF15PAZ04S20X |
| 25 | | | | | | 6STF25PAZ04S20X |
| 37 | | | | | | 6STF37PAZ04S20X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 6STF09PAZ05S20X |
| 15 | | | | | | 6STF15PAZ05S20X |
| 25 | | | | | | 6STF25PAZ05S20X |
| 37 | | | | | | 6STF37PAZ05S20X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 6STF09PAZ03S40X |
| 15 | | | | | | 6STF15PAZ03S40X |
| 25 | | | | | | 6STF25PAZ03S40X |
| 37 | | | | | | 6STF37PAZ03S40X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 6STF09PAZ04S40X |
| 15 | | | | | | 6STF15PAZ04S40X |
| 25 | | | | | | 6STF25PAZ04S40X |
| 37 | | | | | | 6STF37PAZ04S40X |
| 09 | 75 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 6STF09PAZ05S40X |
| 15 | | | | | | 6STF15PAZ05S40X |
| 25 | | | | | | 6STF25PAZ05S40X |
| 37 | | | | | | 6STF37PAZ05S40X |



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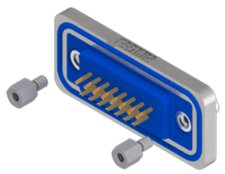
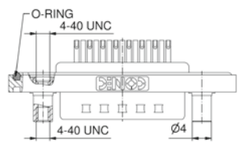
## IP67 Filter D-SUB Connectors
### Plug connector, C-Filter, Standard, front panel mounting

### Solder cup
### Precision machined contacts, AWG 26

4-40 UNC front spacer





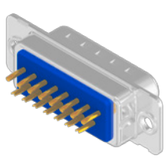

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cycles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

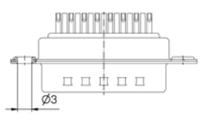
| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 6STF09PAM03B50X |
| 15 | | | | | | 6STF15PAM03B50X |
| 25 | | | | | | 6STF25PAM03B50X |
| 37 | | | | | | 6STF37PAM03B50X |
| 50 | | | | | | 6STF50PAM03B50X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 6STF09PAM04B50X |
| 15 | | | | | | 6STF15PAM04B50X |
| 25 | | | | | | 6STF25PAM04B50X |
| 37 | | | | | | 6STF37PAM04B50X |
| 50 | | | | | | 6STF50PAM04B50X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 6STF09PAM05B50X |
| 15 | | | | | | 6STF15PAM05B50X |
| 25 | | | | | | 6STF25PAM05B50X |
| 37 | | | | | | 6STF37PAM05B50X |
| 50 | | | | | | 6STF50PAM05B50X |

## IP67 Filter D-SUB Connectors
### Plug connector, C-Filter, Standard

### Solder cup p,recision machined contacts
### Hood Assembly, AWG 26

Through-hole Ø 3 mm






*Shell: Brass tin plated*
*Quality class 3 (A) = 50 mating cycles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*

| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 370 | 4STF09PAM03A10X |
| 15 | | | | | | 4STF15PAM03A10X |
| 25 | | | | | | 4STF25PAM03A10X |
| 37 | | | | | | 4STF37PAM03A10X |
| 50 | | | | | | 4STF50PAM03A10X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 830 | 4STF09PAM04A10X |
| 15 | | | | | | 4STF15PAM04A10X |
| 25 | | | | | | 4STF25PAM04A10X |
| 37 | | | | | | 4STF37PAM04A10X |
| 50 | | | | | | 4STF50PAM04A10X |
| 09 | 7.5 (UL) / 5 (CSA, VDE) | 100 | E202784 | 3 | 1300 | 4STF09PAM05A10X |
| 15 | | | | | | 4STF15PAM05A10X |
| 25 | | | | | | 4STF25PAM05A10X |
| 37 | | | | | | 4STF37PAM05A10X |
| 50 | | | | | | 4STF50PAM05A10X |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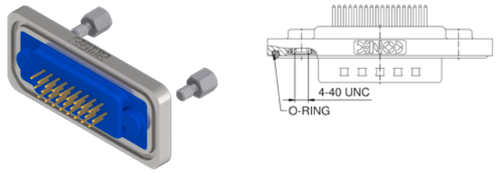
# IP67 Filter D-SUB Connectors
## Plug connector C-Filter High Density

### Solder pin straight
### Precision machined contact

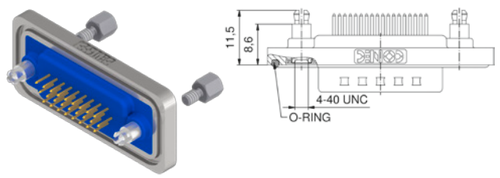
*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cycles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 15 | 3 (UL) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 6HDF15PAR03B30X |
| 26 | | | | | | 6HDF26PAR03B30X |
| 44 | | | | | | 6HDF44PAR03B30X |
| 62 | | | | | | 6HDF62PAR03B30X |
| 15 | 3 (UL) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 6HDF15PAR04B30X |
| 26 | | | | | | 6HDF26PAR04B30X |
| 44 | | | | | | 6HDF44PAR04B30X |
| 62 | | | | | | 6HDF62PAR04B30X |

**4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm**




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 15 | 3 (UL) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 6HDF15PAR03E20X |
| 26 | | | | | | 6HDF26PAR03E20X |
| 44 | | | | | | 6HDF44PAR03E20X |
| 62 | | | | | | 6HDF62PAR03E20X |
| 15 | 3 (UL) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 6HDF15PAR04E20X |
| 26 | | | | | | 6HDF26PAR04E20X |
| 44 | | | | | | 6HDF44PAR04E20X |
| 62 | | | | | | 6HDF62PAR04E20X |



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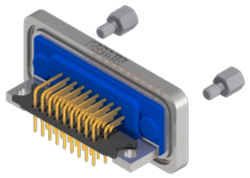
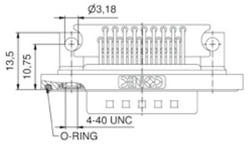
# IP67 Filter D-SUB Connectors
## Plug connector C-Filter High Density

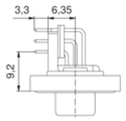
### Solder pin angled .362"/9.2 mm
### Precision machined contacts, metal bracket

*Shell: Brass tin plated*
*Nickel plated die-cast frame*
*Quality class 3 (A) = 50 mating cycles*
*On request:*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

**4-40 UNC threaded insert**

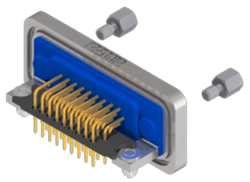


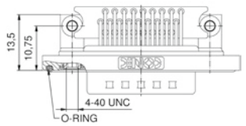


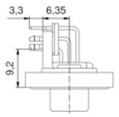




| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 15 | 3 (UL) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 6HDF15PAY03R20X |
| 26 | | | | | | 6HDF26PAY03R20X |
| 44 | | | | | | 6HDF44PAY03R20X |
| 62 | | | | | | 6HDF62PAY03R20X |
| 15 | 3 (UL) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 6HDF15PAY04R20X |
| 26 | | | | | | 6HDF26PAY04R20X |
| 44 | | | | | | 6HDF44PAY04R20X |
| 62 | | | | | | 6HDF62PAY04R20X |

**Clip for PCB 1.6 mm, 4-40 UNC threaded insert**






| No. of poles | Current rating [A] | Working voltage [V] | UL-File | Quality class | Capacitance [pF] | Part No. |
|---|---|---|---|---|---|---|
| 15 | 3 (UL) / 2.5 (CSA) | 100 | E202784 | 3 | 370 | 6HDF15PAY03R40X |
| 26 | | | | | | 6HDF26PAY03R40X |
| 44 | | | | | | 6HDF44PAY03R40X |
| 62 | | | | | | 6HDF62PAY03R40X |
| 15 | 3 (UL) / 2.5 (CSA) | 100 | E202784 | 3 | 830 | 6HDF15PAY04R40X |
| 26 | | | | | | 6HDF26PAY04R40X |
| 44 | | | | | | 6HDF44PAY04R40X |
| 62 | | | | | | 6HDF62PAY04R40X |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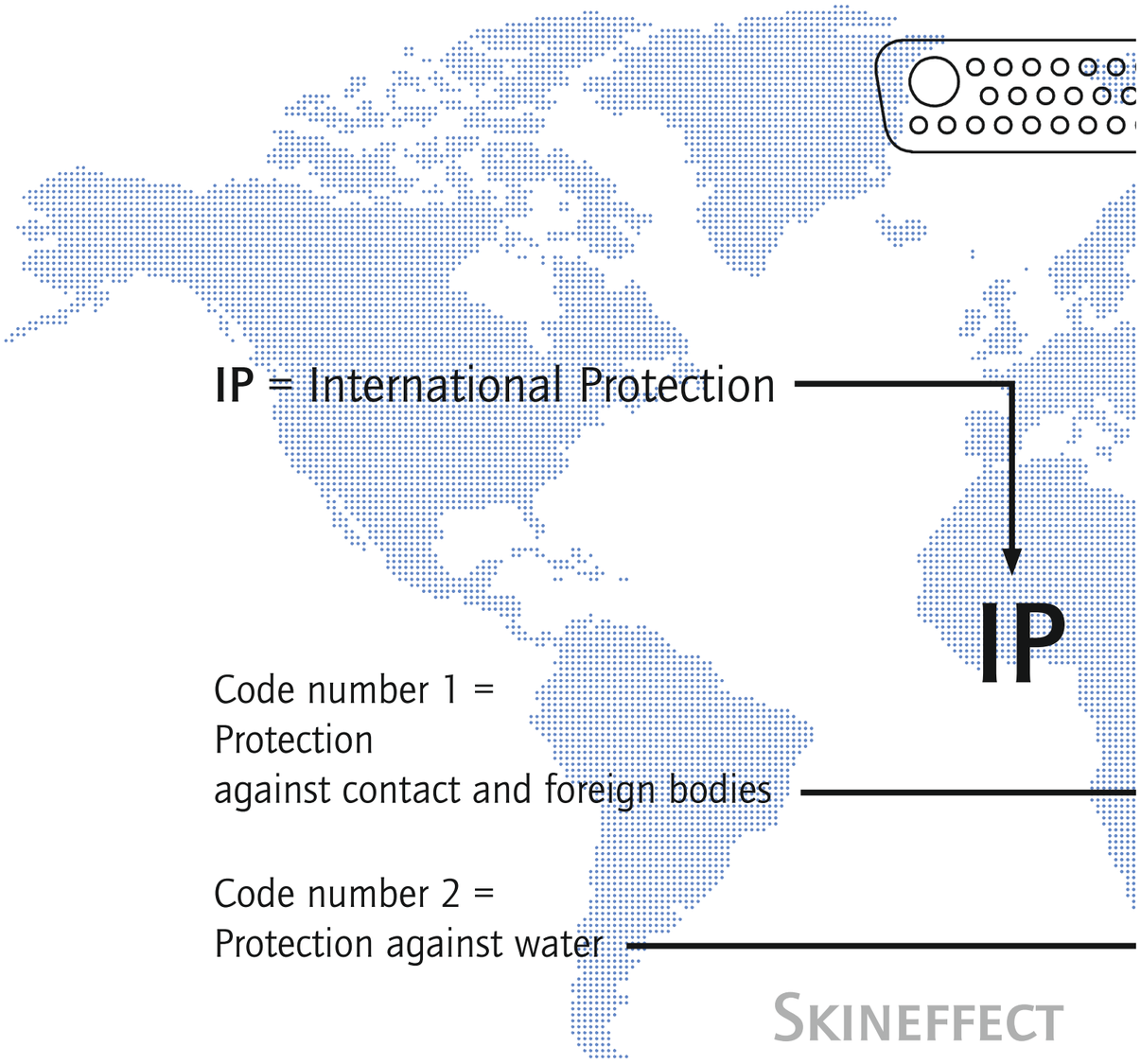
# Technical Information

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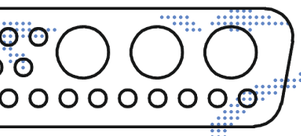
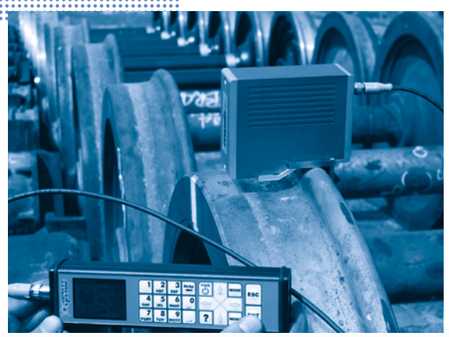
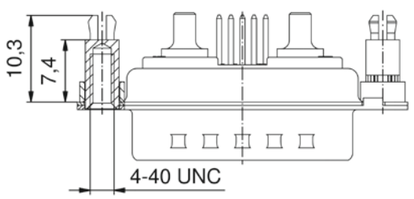


# 67

## Solder parameter





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## Protection classes

### Norm IEC 60529

**IP** = International Protection

**IP 67**

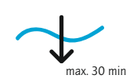
Code number 1 =
Protection against
contact and foreign bodies

Code number 2 =
Protection against water

For safety reasons, connectors have to be protected against external influences like dust, foreign objects, direct contact, moisture and water. For industrial connectors, this protection is provided by their housings with their latching devices and sealed cable entries. The protection classes are also called IP Codes. The abbreviation IP stands for "ingress protection". Standard IEC 60529 specifies and divides the degree of protection into several classes.

The protection classes refer to protection against contact and ingress of solid foreign objects and dust (indicated by the first code digit of the IP Code) as well as against damaging ingress of water (indicated by the second code digit of the IP Code)

## PROTECTION CLASS OVERVIEW

| First code digit | Protection against ingress of foreign objects<br>Protection against contact | Second code digit | Protection against water | Examples |
|---|---|---|---|---|
| 0 | Not protected | 0 | Not protected | |
| 1 | Protection against ingress of solid foreign objects with diameters > than 50 mm<br>Protected against access with the back of the hand | 1 | Protection against vertically dripping water | |
| 2 | Protection against ingress of solid foreign objects with diameters > than 12.5 mm<br>Protected against access with a finger | 2 | Protection against dripping water with 15° inclination | |
| 3 | Protection against ingress of solid foreign objects with diameters > than 2.5 mm<br>Protected against access with a tool | 3 | Protection against spray water inclined up to 60° | |
| 4 | Protection against ingress of solid foreign objects with diameters > than 1 mm<br>Protected against access with a wire | 4 | Protection against splashing water | |
| 5 | Protected against dust in harmful quantities<br>Complete protection against contact | 5 | Protection against jet water | |
| 6 | Dust-proof<br>Complete protection against contact | 6 | Protection against powerful jets of water | |
| | | 7 | Protection against temporary immersion<br>(max. water depth 1 m) |  |
| | | 8 | Protection against constant immersion beyond 1 m<br>An additionally indicated number stands for the maximum immersion depth in meters. | |
| | | 9K | Protection against very strong jets of water, e.g. from high-pressure steam jet cleaners for vehicles. | |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## Electrotechnical information for coaxial and high voltage contacts

### Skin Effect

Alternating currents do not uniformly occupy the entire cross section of the conductor, rather inductance effect in the conductor deflects the current towards the surface of the conductor, whereby this deflection increases with the frequency.
The resistive attenuation of a transmission line increases with the frequency as a result of this skin effect.
The skin depth (equivalent thickness of the layer in which current flows) can be determined using

$$\delta = \frac{1}{\sqrt{f \pi \sigma \mu_0 \mu_r}}$$

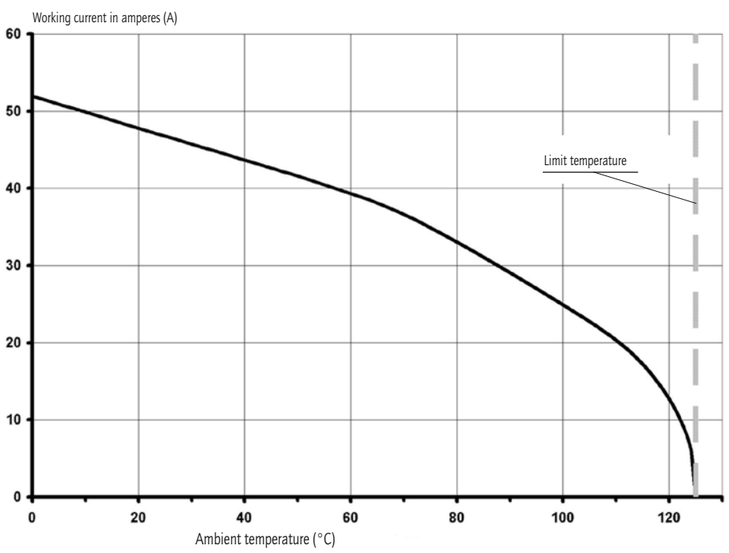
f = frequency
$\sigma$ = conductivity of the conductor material
$\sigma_{Ag} = 62 \times 10^6$ S/m
$\sigma_{Cu} = 58 \times 10^6$ S/m
$\mu_0$ = 1,256 $10^6$ Vs / Am
$\mu_r$ ... relative permeability constant for the employed material

### VSWR-Value

The ratio between the value of the largest and the smallest voltages on a loss-free line is known as the ripple or voltage standing wave ratio s (where 1 m 1 ∞). The reciprocal value of the VSWR is known as the inverse voltage standing wave ratio m (where 0 m 1).
(VSWR = Voltage standing ware ratio)
The value of is linked with the → reflection coefficient r on s transmission line according to the equation

$$s = \frac{(1 + |r|)}{(1 - |r|)}$$

### DeRating Curve




All connectors in the Water Resistant Combination D-Subminiature series are fully loaded with contacts.
They are equipped with either signal, high voltage, high power or coaxial contacts according to requirements.
Our production standard requires that all connectors are fully loaded.
Connectors 3W3, 5W5 and 8W8 female: Socket contacts are fingerprobe safe according to UL1950 and CSA 22.2.950 specifications.



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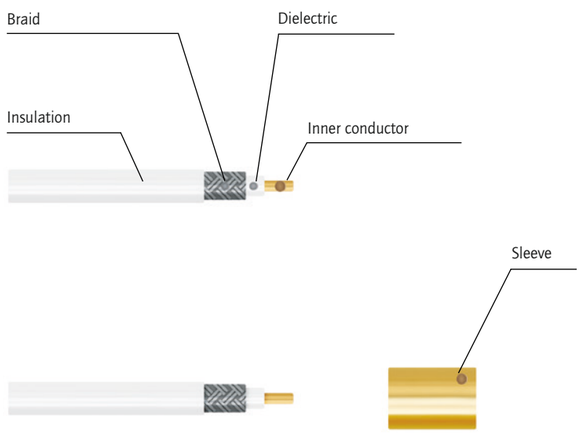
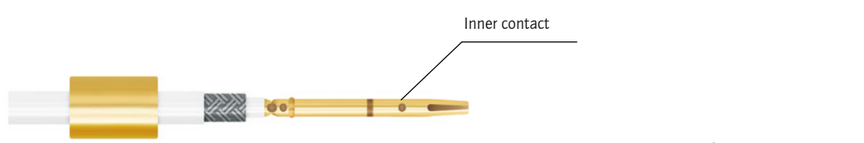
## Typical Assembly for coaxial crimp contacts (Detailed information upon request)

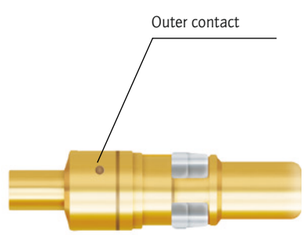



Strip the wire
Using dimensions shown on the individual product drawings

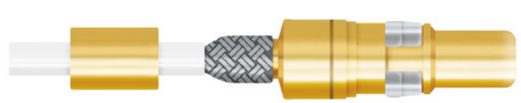
Slide sleeve over coax cable




Crimp the inner contact on the inner conductor




Snap the inner contact into the outer contact



Slide braid over outer contact

Crimp the sleeve on to outer contact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## Solder profile

Recommended wave - solder parameters for CONEC connectors

| Connector Type | Preheating | | Solder termination dipping parameters | |
|---|---|---|---|---|
| | max. temperature | max. duration | max. solder bath temperature | max. terminal immersion time |
| D-SUB Standard | 100 °C | 120 s | 260 °C | 5 s |
| D-SUB High Density | 100 °C | 120 s | 260 °C | 5 s |
| Combination D-SUB | 100 °C | 120 s | 260 °C | 5 s |
| Filter D-SUB | 100 °C | 30 s | 260 °C | 5 s |
| Filter Combination D-SUB | 120 °C | 120 s | 260 °C | 5 s |
| IP67 D-SUB (Standard + HD) | 120 °C | 120 s | 240 °C | 5 s |
| IP67 D-SUB Solid Body (Standard + HD) | 150 °C | 180 s | 265 °C | 8 s |
| IP67 D-SUB CONEC SlimCon (Standard + HD) | 150 °C | 180 s | 265 °C | 8 s |
| IP67 Filter D-SUB (Standard + HD) | 100 °C | 30 s | 260 °C | 5 s |
| IP67 Filter D-SUB CONEC SlimCon | 150 °C | 180 s | 265 °C | 8 s |
| IP67 D-SUB Combination | 120 °C | 120 s | 240 °C | 5 s |
| IP67 D-SUB Combination Solid Body | 150 °C | 180 s | 265 °C | 8 s |
| IP67 D-SUB Combination CONEC SlimCon | 150 °C | 180 s | 265 °C | 8 s |

Technical specifications are subject to change without notice



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## Conversion table for units µm/mm/inch

| µm 1/1000 mm | µinch 1/1000 inch |
|---|---|
| 0,10 | 4 |
| 0,20 | 8 |
| 0,25 | 10 |
| 0,30 | 12 |
| 0,50 | 20 |
| 0,70 | 28 |
| 0,75 | 30 |
| 0,80 | 32 |
| 1,00 | 39 |
| 1,27 | 50 |
| 2,00 | 79 |
| 2,50 | 98 |
| 3,00 | 118 |
| 4,00 | 157 |
| 5,00 | 197 |

| mm | inch |
|---|---|
| 0,10 | .004 |
| 0,20 | .008 |
| 0,25 | .012 |
| 0,35 | .014 |
| 0,40 | .016 |
| 0,45 | .018 |
| 0,50 | .020 |
| 0,55 | .022 |
| 0,60 | .024 |
| 0,64 | .025 |
| 0,65 | .026 |
| 0,70 | .028 |
| 0,75 | .030 |
| 0,80 | .032 |
| 0,85 | .034 |
| 0,90 | .035 |
| 1,00 | .039 |
| 1,20 | .047 |
| 1,25 | .049 |
| 1,27 | .050 |
| 1,30 | .051 |
| 1,35 | .053 |
| 1,40 | .055 |
| 1,45 | .057 |
| 1,50 | .059 |
| 1,60 | .063 |
| 1,70 | .067 |
| 1,80 | .071 |
| 1,85 | .073 |
| 1,90 | .075 |
| 2,00 | .079 |
| 2,10 | .083 |
| 2,20 | .087 |
| 2,30 | .091 |
| 2,40 | .095 |
| 2,50 | .098 |
| 2,54 | .100 |
| 2,60 | .102 |
| 2,70 | .106 |
| 2,80 | .110 |
| 2,84 | .112 |
| 2,90 | .114 |
| 3,00 | .118 |
| 3,10 | .122 |
| 3,20 | .126 |

| mm | inch |
|---|---|
| 3,30 | .130 |
| 3,40 | .134 |
| 3,50 | .138 |
| 3,60 | .142 |
| 3,70 | .146 |
| 3,80 | .150 |
| 3,81 | .150 |
| 3,90 | .154 |
| 4,00 | .158 |
| 4,10 | .161 |
| 4,20 | .165 |
| 4,30 | .169 |
| 4,50 | .177 |
| 4,70 | .185 |
| 4,90 | .193 |
| 5,00 | .197 |
| 5,08 | .200 |
| 5,10 | .201 |
| 5,20 | .205 |
| 5,30 | .209 |
| 5,40 | .213 |
| 5,50 | .217 |
| 5,60 | .220 |
| 5,70 | .224 |
| 5,80 | .228 |
| 6,00 | .236 |
| 6,10 | .240 |
| 6,40 | .252 |
| 6,50 | .256 |
| 6,60 | .260 |
| 6,70 | .264 |
| 6,80 | .268 |
| 6,90 | .272 |
| 7,00 | .276 |
| 7,10 | .280 |
| 7,20 | .283 |
| 7,40 | .291 |
| 7,50 | .295 |
| 7,60 | .299 |
| 7,62 | .300 |
| 7,70 | .303 |
| 7,80 | .307 |
| 7,98 | .314 |
| 8,00 | .315 |
| 8,18 | .318 |
| 8,20 | .323 |
| 8,30 | .327 |
| 8,40 | .331 |
| 8,50 | .335 |
| 8,60 | .339 |
| 8,90 | .350 |
| 9,00 | .354 |
| 9,10 | .358 |
| 9,20 | .362 |
| 9,30 | .366 |
| 9,40 | .370 |
| 9,50 | .374 |
| 9,60 | .378 |
| 9,70 | .382 |
| 9,90 | .390 |
| 10,00 | .395 |

| mm | inch |
|---|---|
| 10,16 | .400 |
| 10,26 | .402 |
| 10,36 | .406 |
| 10,56 | .413 |
| 10,66 | .417 |
| 10,76 | .421 |
| 11,00 | .433 |
| 11,20 | .441 |
| 11,40 | .449 |
| 11,50 | .453 |
| 11,60 | .457 |
| 11,90 | .469 |
| 12,00 | .472 |
| 12,20 | .480 |
| 12,30 | .484 |
| 12,40 | .488 |
| 12,50 | .492 |
| 12,70 | .500 |
| 12,90 | .508 |
| 13,00 | .512 |
| 13,10 | .516 |
| 13,20 | .520 |
| 13,50 | .532 |
| 13,60 | .535 |
| 13,70 | .539 |
| 13,90 | .547 |
| 14,00 | .551 |
| 14,30 | .563 |
| 14,40 | .567 |
| 14,50 | .571 |
| 14,70 | .579 |
| 14,80 | .583 |
| 14,90 | .587 |
| 14,98 | .590 |
| 15,00 | .591 |
| 15,20 | .598 |
| 15,24 | .600 |
| 15,40 | .606 |
| 15,50 | .610 |
| 15,60 | .614 |
| 15,90 | .626 |
| 16,00 | .630 |
| 16,20 | .638 |
| 16,50 | .650 |
| 16,60 | .654 |
| 16,80 | .661 |
| 17,00 | .669 |
| 17,20 | .677 |
| 17,30 | .681 |
| 17,50 | .689 |
| 17,60 | .693 |
| 17,70 | .697 |
| 17,78 | .700 |
| 17,80 | .701 |
| 17,90 | .705 |
| 18,00 | .709 |
| 18,10 | .713 |
| 18,30 | .721 |
| 18,60 | .732 |
| 19,00 | .748 |
| 19,20 | .756 |

| mm | inch |
|---|---|
| 19,50 | .768 |
| 19,70 | .776 |
| 19,80 | .780 |
| 19,90 | .783 |
| 20,00 | .787 |
| 20,10 | .791 |
| 20,30 | .799 |
| 20,32 | .800 |
| 20,50 | .807 |
| 21,00 | .827 |
| 21,10 | .831 |
| 21,70 | .854 |
| 22,00 | .866 |
| 22,10 | .870 |
| 22,20 | .874 |
| 22,30 | .878 |
| 22,40 | .882 |
| 22,50 | .886 |
| 22,60 | .890 |
| 22,80 | .898 |
| 22,86 | .900 |
| 22,90 | .902 |
| 23,00 | .906 |
| 23,10 | .909 |
| 23,30 | .917 |
| 23,50 | .925 |
| 24,00 | .945 |
| 24,30 | .957 |
| 24,60 | .969 |
| 24,90 | .980 |
| 25,00 | .984 |
| 25,10 | .998 |
| 25,40 | 1.000 |
| 25,60 | 1.008 |
| 25,90 | 1.020 |
| 26,00 | 1.024 |
| 26,30 | 1.035 |
| 26,60 | 1.047 |
| 26,70 | 1.051 |
| 27,00 | 1.063 |
| 27,20 | 1.071 |
| 27,40 | 1.079 |
| 27,50 | 1.093 |
| 27,90 | 1.098 |
| 27,94 | 1.100 |
| 28,00 | 1.102 |
| 28,20 | 1.110 |
| 28,50 | 1.122 |
| 28,70 | 1.130 |
| 29,00 | 1.142 |
| 29,20 | 1.150 |
| 29,40 | 1.158 |
| 29,50 | 1.161 |
| 29,70 | 1.169 |
| 29,90 | 1.177 |
| 30,00 | 1.181 |
| 30,20 | 1.189 |
| 30,40 | 1.197 |
| 30,48 | 1.200 |
| 30,50 | 1.201 |
| 30,80 | 1.213 |

| mm | inch |
|---|---|
| 30,90 | 1.217 |
| 31,00 | 1.220 |
| 31,20 | 1.228 |
| 31,50 | 1.240 |
| 31,70 | 1.248 |
| 32,00 | 1.260 |
| 32,20 | 1.268 |
| 32,30 | 1.272 |
| 32,50 | 1.280 |
| 32,80 | 1.291 |
| 33,00 | 1.299 |
| 33,10 | 1.303 |
| 33,30 | 1.311 |
| 33,80 | 1.331 |
| 34,00 | 1.339 |
| 34,20 | 1.346 |
| 34,40 | 1.354 |
| 35,00 | 1.378 |
| 35,40 | 1.394 |
| 35,50 | 1.398 |
| 35,56 | 1.400 |
| 35,60 | 1.402 |
| 36,00 | 1.417 |
| 36,50 | 1.437 |
| 36,60 | 1.441 |
| 36,70 | 1.445 |
| 37,00 | 1.457 |
| 37,30 | 1.469 |
| 37,50 | 1.476 |
| 37,60 | 1.480 |
| 37,70 | 1.484 |
| 37,90 | 1.492 |
| 38,00 | 1.496 |
| 38,10 | 1.500 |
| 39,00 | 1.535 |
| 39,20 | 1.543 |
| 39,30 | 1.547 |
| 39,90 | 1.571 |
| 40,00 | 1.575 |
| 40,30 | 1.587 |
| 40,40 | 1.591 |
| 40,60 | 1.598 |
| 41,00 | 1.614 |
| 41,60 | 1.638 |
| 42,70 | 1.681 |
| 43,18 | 1.700 |
| 44,20 | 1.740 |
| 44,80 | 1.764 |
| 45,80 | 1.803 |
| 46,30 | 1.823 |
| 46,70 | 1.839 |
| 47,00 | 1.850 |
| 47,20 | 1.858 |
| 47,30 | 1.862 |
| 47,50 | 1.870 |
| 47,80 | 1.882 |
| 48,00 | 1.890 |
| 48,10 | 1.894 |
| 48,26 | 1.900 |
| 48,80 | 1.921 |
| 49,10 | 1.933 |

| mm | inch |
|---|---|
| 49,50 | 1.949 |
| 49,90 | 1.965 |
| 50,10 | 1.972 |
| 50,30 | 1.980 |
| 50,50 | 1.988 |
| 50,70 | 1.996 |
| 50,80 | 2.000 |
| 51,40 | 2.024 |
| 51,50 | 2.028 |
| 52,00 | 2.047 |
| 52,30 | 2.059 |
| 52,80 | 2.079 |
| 53,00 | 2.087 |
| 53,20 | 2.095 |
| 53,80 | 2.118 |
| 54,00 | 2.126 |
| 54,20 | 2.134 |
| 54,90 | 2.161 |
| 55,00 | 2.165 |
| 55,40 | 2.181 |
| 55,70 | 2.193 |
| 56,60 | 2.228 |
| 57,40 | 2.260 |
| 57,80 | 2.276 |
| 57,90 | 2.280 |
| 58,42 | 2.300 |
| 59,00 | 2.323 |
| 59,20 | 2.331 |
| 59,80 | 2.354 |
| 59,90 | 2.358 |
| 60,00 | 2.362 |
| 60,96 | 2.400 |
| 61,10 | 2.406 |
| 62,00 | 2.441 |
| 63,00 | 2.480 |
| 63,50 | 2.500 |
| 64,00 | 2.520 |
| 65,00 | 2.560 |
| 67,00 | 2.638 |
| 68,00 | 2.677 |
| 69,00 | 2.717 |
| 70,00 | 2.756 |
| 71,00 | 2.795 |
| 74,00 | 2.913 |
| 75,00 | 2.953 |
| 76,20 | 3.000 |
| 77,00 | 3.032 |
| 78,74 | 3.100 |
| 80,00 | 3.150 |
| 81,28 | 3.200 |
| 84,00 | 3.307 |
| 85,00 | 3.346 |
| 86,36 | 3.400 |
| 88,90 | 3.500 |
| 90,00 | 3.543 |
| 91,44 | 3.600 |
| 94,00 | 3.701 |
| 95,00 | 3.740 |
| 100,00 | 3.937 |
| 110,00 | 4.331 |
| 120,00 | 4.724 |


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Section 10

# Installation and assembly tools

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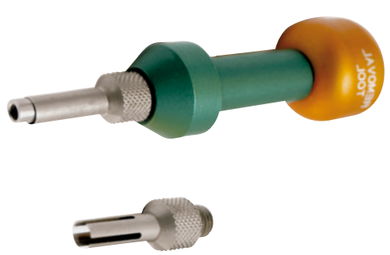
# Installation and Assembly tools

## Installing/Removal tools

| for D-SUB connectors with crimp contacts | Description | Part. No. |
|---|---|---|
| | Insertion and extraction tool | 360X12009X |
| **for D-SUB High Density connectors with crimp contacts** | | |
| | Insertion tool | 360X10339X |
| | removal tool | 360X10349X |
| **for D-SUB Combination Connectors with coaxial, high power and high voltage contacts** | | |
|  | Extraction tool | 360X10219X |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## Crimp tools

| for D-SUB standard connectors with stamped contacts | Description | Part. No. |
|---|---|---|
| | Crimp tool | 360X10079X |
| **for D-SUB standard connectors with stamped contacts** | | |
| | Spool crimp tool<br>for stamped contacts on reel | 360X10069X |



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## Crimp tools and inserts

| for D-SUB, HD-SUB connectors with crimp contacts and D-SUB combination connectors with coaxial contacts (inner conductor) | Description | Part. No. |
|---|---|---|
| | Hand crimp tool | 360X10329X |
| | Inserts (Part No. see following charts) | |

**Inserts for use with hand crimp tool 360X10329X D-SUB Standard and High Density contacts**

| Part No. plug contacts | Part No. socket contacts | Part No. Crimp insert | AWG (Selector Setting) | AWG (Selector Setting) | AWG (Selector Setting) | AWG (Selector Setting) |
|---|---|---|---|---|---|---|
| 161A18299X | 162A18709X | 360X20069X | 20 (7) | 22 (6) | 24 (5) | |
| 161A18309X | 162A18719X | 360X20069X | 24 (7) | 26 (6) | 28 (5) | |
| 161A18009X | 162A18419X | 360X10629X | 22 (4) | 24 (3) | 26 (2) | 28 (1) |
| | 16-000693 (closed entry) | 360X10629X | 22 (4) | 24 (3) | 26 (2) | 28 (1) |
| 131C15019X | 132C15019X | 360X20039X | 20 (7) | 22 (6) | 24 (5) | |
| 131C15029X | 132C15029X | 360X20039X | 24 (7) | 26 (6) | 28 (5) | |

**Inserts for use with hand crimp tool 360X0329X D-SUB Combination coaxial contacts (inner conductor)**

| Part No. plug contacts | Part No. socket contacts | Part No. Crimp insert | Selector setting | | |
|---|---|---|---|---|---|
| 131J21019X | 132J21019X | 360X11049X | depending on wire use selector setting | | |
| 131J21029X | 132J21029X | 360X11049X | | | |
| 131J21039X | 132J21039X | 360X11049X | AWG | | Selector setting |
| 131J23019X | 132J23019X | 360X11059X | 24 | → | 5 |
| 131J31019X | 132J31019X | 360X11049X | 26 | → | 5 |
| 131J31029X | 132J31029X | 360X11049X | 28 | → | 4 |
| 131J33019X | 132J33019X | 360X11059X | 30 | → | 3 |


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## Crimp tools and inserts

| for D-SUB standard connectors with stamped contacts | Description | Part. No. |
|---|---|---|
| | Hand crimp tool | 360X10409X |
| | Insert for above hand crimp tool | 360X20029X |

**Selector setting for High Power contacts**

| Contact Type | Part. no. plug contacts | Part. no. socket contacts | Crimp insert | AWG (Selector Setting) | AWG (Selector Setting) | AWG (Selector Setting) |
|---|---|---|---|---|---|---|
| D-Sub Combination High power contacts | 131C11019X | 132C11019X | 360X20029X | 16 (3) | 18 (2) | 20 (2) |
| | 131C11029X | 132C11029X | 360X20029X | 12 (5) | 14 (4) | |
| | 131C11039X | 132C11039X | 360X20029X | 10 (7) | 12 (6) | |
| | 131C11049X | 132C11049X | 360X20029X | 8 (7) | 10 (6) | |

**for D-SUB Combination connectors with angled high power contacts**

| | | |
|---|---|---|
| | Hand crimp tool | 360X12269X |



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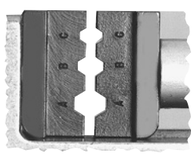
## Crimp tools and inserts

| for D-SUB combination connectors with coax contacts (outer conductor) | Description | Part. No. |
|---|---|---|
| | Hand crimp tool | 360X10519X |
|  | Inserts (Part No. see following chart) | |

**Inserts for use with hand crimp tool 360 X0329 X/D-SUB Combination coac contacts (outer conductor)**

| Part No. plug contacts | Part No. socket contacts | Part No. Crimp insert | Inser cavity |
|---|---|---|---|
| 131J20019X | 132J20019X | 360X11019X | C |
| 131J20029X | 132J20029X | 360X11019X | B |
| 131J20039X | 132J20039X | 360X11019X | A |
| 131J20049X | 132J20049X | 360X11029X | A |
| 131J20059X | 132J20059X | 360X11039X | B |
| 131J21019X | 132J21019X | 360X11019X | B |
| 131J21029X | 132J21029X | 360X11039X | B |
| 131J21039X | 132J21039X | 360X11029X | A |
| 131J22019X | 132J22019X | 360X11019X | B |
| 131J22029X | 132J22029X | 360X11019X | C |
| 131J22039X | 132J22039X | 360X11039X | B |
| 131J23019X | 132J23019X | 360X11019X | B |
| 131J30019X | 132J30019X | 360X11019X | B |
| 131J30029X | 132J30029X | 360X11019X | B |
| 131J31019X | 132J31019X | 360X11019X | B |
| 131J31029X | 132J31029X | 360X11019X | A |
| 131J33019X | 132J33019X | 360X11019X | B |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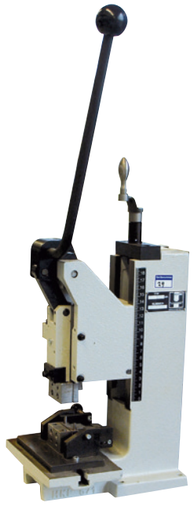
## Manually operated lever press + press in tool sets

| for D-SUB combination connectors with coax contacts (outer conductor) | Description | Part. No. |
|---|---|---|
|  | Manually operated lever press | 360X12369X |
| | Press in tool sets (Part No. see following chart) | |

**Press in tool sets for D-SUB, HD-SUB and D-SUB Combination Connectors**

| Socket Connector | Type | Part. No. |
|---|---|---|
| Combination D-SUB Connectors | 2W2C | 360X00159A |
| Combination D-SUB Connectors | 3W3 | 360X00169A |
| Combination D-SUB Connectors | 3W3C | 360X00169A |
| Combination D-SUB Connectors | 5W5 | 360X00179A |
| Combination D-SUB Connectors | 8W8 | 360X00189A |
| Plug Connector | 9-pos./15-pos. HD | 360X15019X |
| Plug Connector | 15-pos./26-pos. HD | 360X15029X |
| Plug Connector | 25-pos./44-pos. HD | 360X15039X |
| Plug Connector | 37-pos./62-pos. HD | 360X15049X |
| Plug Connector | 50-pos./78-pos. HD | 360X15059X |
| Socket Connector | 9-pos./15-pos. HD | 360X15069X |
| Socket Connector | 15-pos./26-pos. HD | 360X15079X |
| Socket Connector | 25-pos./44-pos. HD | 360X15089X |
| Socket Connector | 37-pos./62-pos. HD | 360X15099X |
| Socket Connector | 50-pos./78-pos. HD | 360X15109X |



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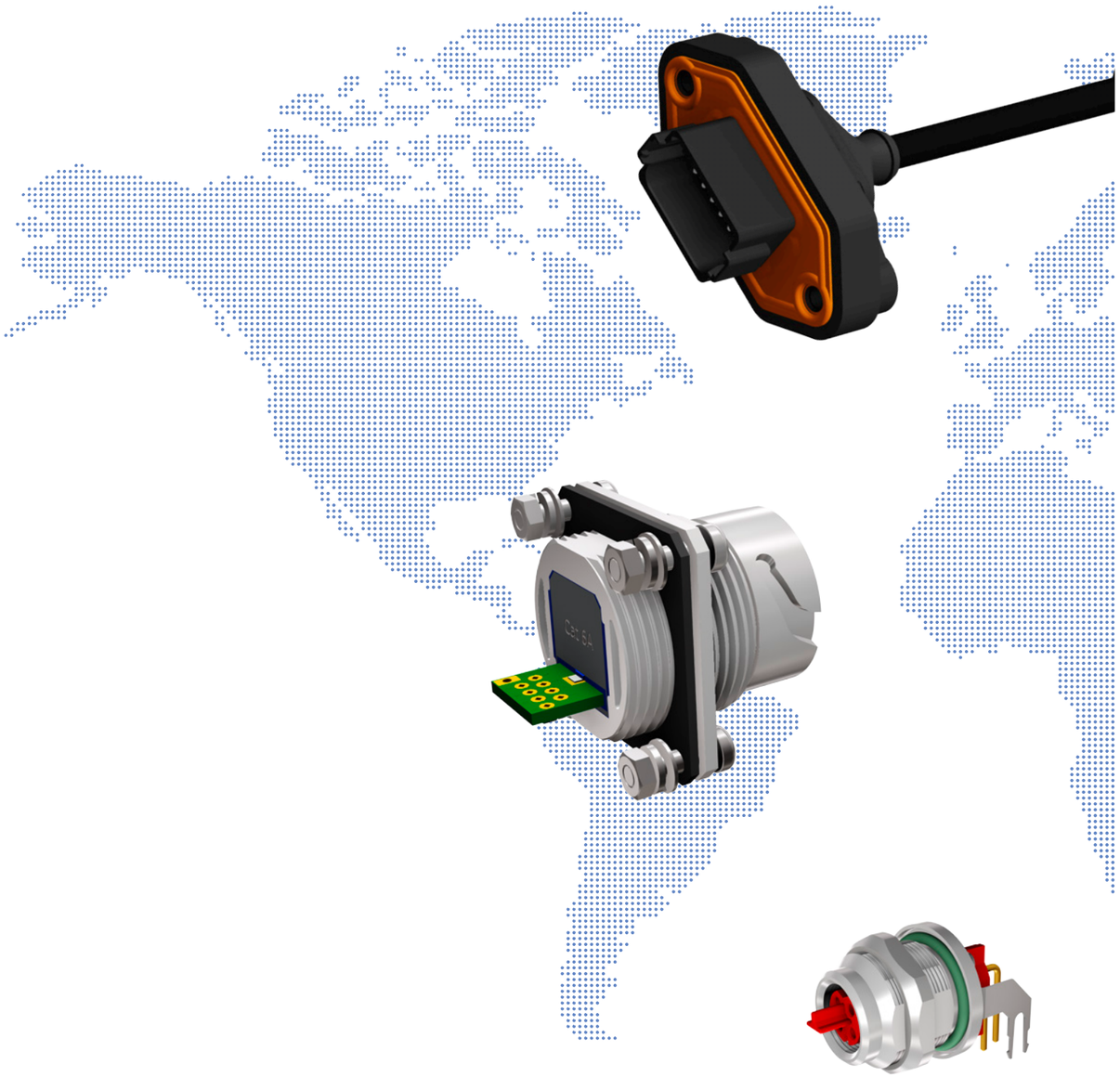
Section 11

# Additional product categories



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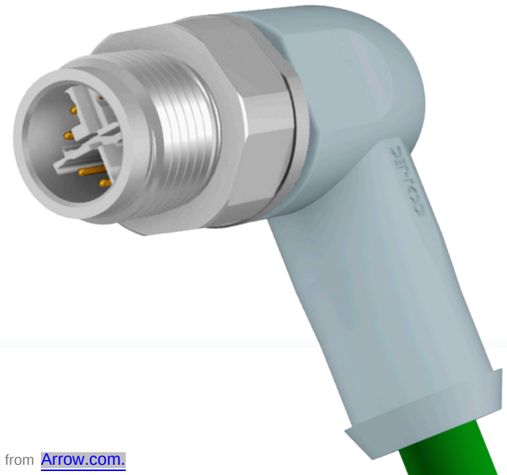



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## IP67 Power Bayonet

### Details

- No. of poles: 2, 2+PE
- Receptacle male and female
- Cable connector male and female
- Degree of protection: IP67

### Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Cable to cable connection available
- High current carrying capability

## IP67 Mini USB, USB 2.0, USB 3.0 connectors

### Details

- Type: USB 3.0 Type A
- Type: USB 2.0 Type A, Mini USB Type A
- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet, M28
- Termination: soldering, PCB
- Front- and back panel mounting
- Adapters
- Degree of protection: IP67
- Degree of protection: IP20 (patch cord)

### Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Light-weight versions ideal for portable devices


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## IP67 RJ45 Industrial Ethernet connectors

### Details

- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet, M28
- Termination: soldering, IDC, screw
- Front- and back panel mounting
- UTP Cat 5e, STP Cat 5e, S/STP Cat 6A
- Degree of protection: IP67
- Degree of protection: IP20 (patch cord)

### Benefits

- Use in harsh environments
- Easy and secure locking by bayonet lock
- Front- and back panel mounting
- Light-weight versions
- Colored interface encoding available
- Cat. 6A variants up to 10 GBit/s

## IP67 Fiber Optic LC Duplex

### Details

- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet
- Single Mode, Multi Mode, APC Single Mode
- Front- and back panel mounting
- Degree of protection: IP67

### Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Extended temperature range
- Interference-free safe data transmission
- Cost efficiency by integrated IP67 protection



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## CONEC Hybrid connectors

### Details

- Size: B12, B17, B23, B40
- Coding: 1, 2, 3, 4, 5, 6
- Number of poles power: 2, 2+PE, 3+PE, 4+PE, 3+PE+2
- Number of poles data: 4 (transmission according IEC11801 Cat 5)
- Configuration: Connector axial overmoulded,
  Connector axial field attachable, sockets axial,
  sockets angled rotatable (B23)
- Bayonet locking
- Degree of protection: IP67

### Benefits

- Space-saving by transmitting data and power with one connector
- Quick and secure connection by bayonet locking
- Compact and robust design
- Adjustable direction of outlet (B23 receptacle angled)

## Circular connectors overmoulded (signal transmission)

### Details

- Size: M8x1, M12x1, 7/8", Rund24
- Coding: A, B, C
- Number of poles: 3, 4, 5, 6, 8, 12, 2+PE, 3+PE, 4+PE
- Configuration: axial or angled, shielded or unshielded
- Optional with LED
- Termination: screw-, snap-, srew-/snap-termination
- Degree of protection: IP67

### Benefits

- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Application-related cable qualities


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## Circular connectors field attachable (signal transmission)

### Details

- Size: M8x1, M12x1, 7/8", Rund24
- Coding: A
- Number of poles: 3, 4, 5, 8 , 2+PE, 3+PE, 4+PE, 6+PE
- Configuration: axial or angled, shielded or unshielded
- Termination: solder-, clamp-, screw-, crimp termination
- Degree of protection: IP67

### Benefits

- Mating can be controlled with torque wrench
- Easy field attachable without special tools
- M12x1 cable cross section 1.5 mm² (Crimp max. 1.0 mm²)
- Vibration proof screw lock

## Sockets (signal transmission)

### Details

- Size: M8x1, M12x1, 7/8"
- Coding: A, B
- Number of poles: 3, 4, 5, 6, 8, 12, 2+PE, 4+PE
- Male socket, female socket
- Configuration: axial or angled
- Field attachable crimp version
- Assembly: Protection cap
- Front and back panel mounting
- Degree of protection: IP67

### Benefits

- Colored contact insulators to avoid wrong plugging
- High number of poles with minimum space requirements
- Direct circuit board mounting
- Protection of unused interfaces



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## Sockets SMT/THR (signal transmission)

### Details

- Size: M8x1 SMT/THR, M12x1 SMT
- Coding: A, B
- Number of poles: 3, 4, 5, 8
- Male socket, female socket
- Configuration: axial, shielded or unshielded
- Front and back panel mounting
- Degree of protection: IP67

### Benefits

- Automated assembly (SMT)
- High number of poles with minimum space requirements
- Low forces on the board
- Low contact resistance on the shielding
- Large tolerance compensation between board and housing

## Panel plugs

### Details

- Size: M8x1, M12x1
- Coding: A
- Number of poles: 3, 4, 5, 8
- With LED preparation
- Configuration: axial
- Housing configuration: Plastic, metal, metal/plastic transparent
- Termination: Solder-, print termination
- Degree of protection: IP67

### Benefits

- Easy installation in housing by pushing in
- Low installation height
- Various connection possibilities


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## Power connectors

### Details

- Size: M12x1, 7/8", Rund24
- Coding: L, S, T
- Number of poles: 3, 4, 2+PE, 3+PE, 4+PE, 4+FE, 6+PE
- Configuration: axial or angled
- Degree of protection: IP67

### Benefits

- Transmission of high currents
- Mating can be controlled with torque wrench
- Defined tightening torque
- Polarity reversal prevented with coded insulators
- Robust design with minimum space requirements

## High Temperature/Food & Beverage connectors

### Details

- Size: M8x1, M12x1
- Coding: A
- Number of poles: 3, 4, 5
- Female connector, male connector
- Optional with LED
- Temperature-resistent up to 125 °C (HT)
- Degree of protection: IP65 (HT), IP67/IP69K (F&B)

### Benefits

- Resistance to commercial aggressive cleaning agents
- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Use in constantly high ambient temperatures



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## Connectors for BUS-Systems

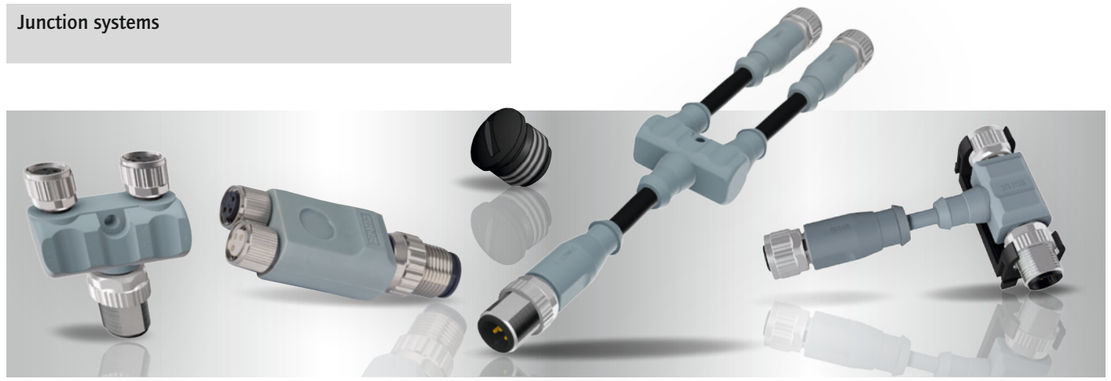
### Details

- Size: M8x1, M12x1, 7/8", RJ45
- Coding: B, D, P, X
- Number of poles: 4, 8
- Profibus DP
- DeviceNet
- Industrial Ethernet 100 MHz
- EtherCAT P
- 10 Gigabit Ethernet
- Configuration: axial or angled

### Benefits

- Robust design with minimum space requirements
- Vibration proof screw lock
- SMT versions for automatic placement
- High data transmission up to 10 Gbit/s (X-cod.)
- Flexible cabeling in the field by field attachable variants

## Junction systems



### Details

- Size: M8x1, M12x1
- Number of poles: 3, 4, 5, 8, 4+PE
- 1:1 wiring
- Signal distribution
- Assembly: retaining clip, protection caps
- Degree of protection: IP67

### Benefits

- Reduction of installation costs
- Space saving design
- Robust design with minimum space requirements
- Signals and power are transmitted by standardized plug systems
- Back-to-back assembly with retaining clip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## DT, Superseal and ISOBUS series

### Details

- No. of poles: 2-, 3-, 4-, 6-, 8-, 12-pos. (DT-Series)
  2-, 3-, 4-, 5-, 6-pos. (Superseal), 9-pos. (ISOBUS)
- PUR Cable 0.75 $mm^2$/AWG 18
- Optional with M12-thread (DT-Series)
- Optional with LED and protection circuit (DT-Series: 2- und 3-pos.)
- Available with single wire (2-pos. DT-Series and Superseal)
- Protection cap (DT- and Superseal-Series)
- Available with double outlet (DT 2-, 4-, 6-, 8-pos.)
- Gender: Female, male

### Benefits

- Compact design
- With/without LED and protection circuit
- Status indication via LED, visible from all sides (DT-Series)
- Attachment/mounting of cable protection hose
  (DT-/Superseal-Series)
- The overmoulding provides an overall IP67 protection from the
  housing into the cable



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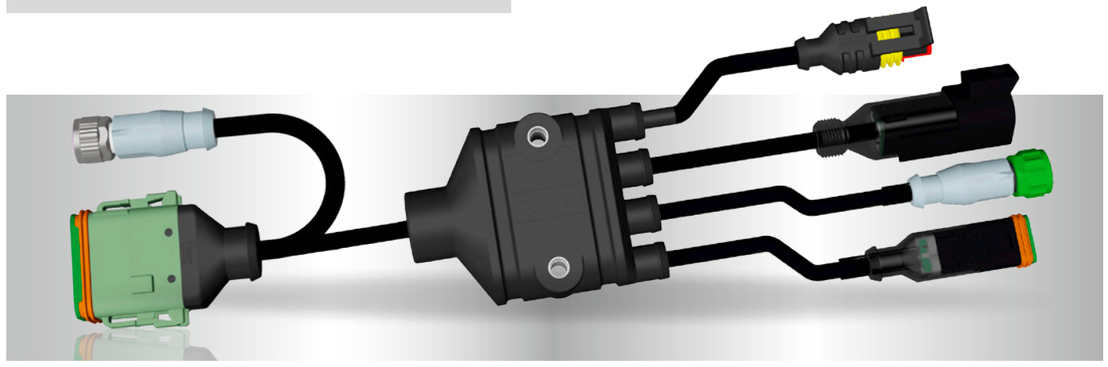
## Junction system Type S, M, L



### Details

**Type S**
- 66 x 30 x 15 mm
- Cable inlets: 1, 2
- Cable outlets: 1, 2
- Max. Cable diameter inlets: 8 mm
- Max. Cable diameter outlets: 8 mm

**Type M**
- 66 x 40 x 15 mm
- Cable inlets: 1, 2, 3
- Cable outlets: 1, 2, 3
- Max. Cable diameter inlets: 11 mm
- Max. Cable diameter outlets: 8 mm

**Typw L**
- 76 x 55 x 22 mm
- Cable inlets: 1, 3, 4
- Cable outlets: 3, 4
- Max. Cable diameter inlets: 17 mm
- Max. Cable diameter outlets: 13 mm (3 exits), 8 mm (4 exits)

### Benefits

- Reduction of installation costs
- Fully protected cable harness
- Space saving design
- Robust design with minimum space requirements
- Different mounting options
- Degree of protectin: IP67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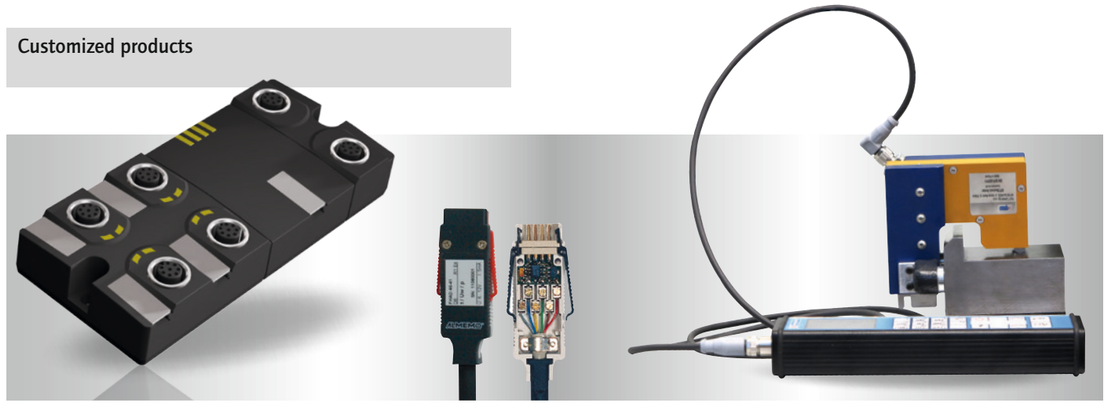
# Additional CONEC product categories

## PCB connectors

### Overview

- DIN EN 60603-2
- DIN 41617
- AdvancedTCA
- Flat cable connector
- CompactPCI
- PC104/PC104Plus

## Customized products



### Many things are possible

Are you looking for application-specific solutions?
Please contact us – our expert team will support you from the product concept up to optimised serial production.

- Special interconnect solutions to customer specifications
- Prototypes and small series production batches
- Connectors with increased IP ratings for harsh environments
- Enclosure technology for industrial use



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# TECHNOLOGY IN CONNECTORS™

For more than 40 years, CONEC Elektronische Bauelemente GmbH has been developing, producing and marketing high-quality connectors, patch cable and single ended cable as well as enclosure technology.

CONEC products are used in automation, telecommunications and energy technology, machine manufacturing, agriculture and medical technology, transportation and the aviation industry.

The headquarters in Lippstadt has a large research and development department, its own tool-making department, a CNC-turning department and a synthetics injection moulding plant.

As part of the Amphenol Group, CONEC participates in the growth and development opportunities of a globally active group and at the same time acts flexibly and quickly as a medium-sized company in order to optimally adapt to changing customer needs.

CONEC Germany, Lippstadt

CONEC Canada, Brampton

CONEC USA, Garner

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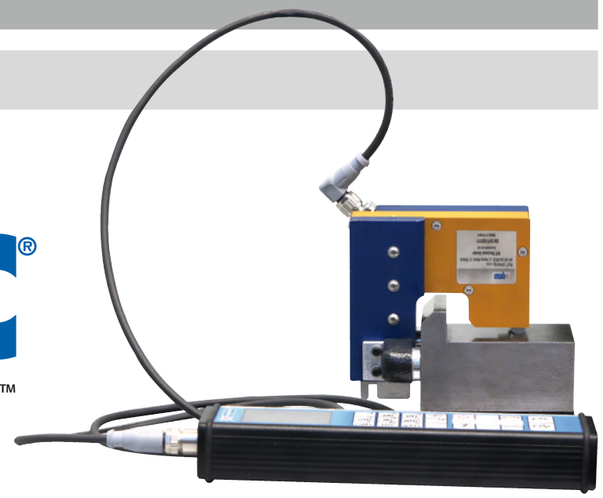
## CUSTOMIZED PRODUCTS

### Application-specific-solutions



# TECHNOLOGY IN CONNECTORS™

Despite a comprehensive product portfolio of industrial connectors, customer requirements cannot always be satisfied from standard products. In such cases, it is essential to develop custom specific solutions for mechanical and plant engineering as quickly as possible.

Are you looking for application-specific solutions?
The experienced CONEC design team creates solutions for you, for example:

- Special interconnect solutions to customer specifications
- Prototypes and small series production batches
- Connectors with increased IP ratings for harsh environments

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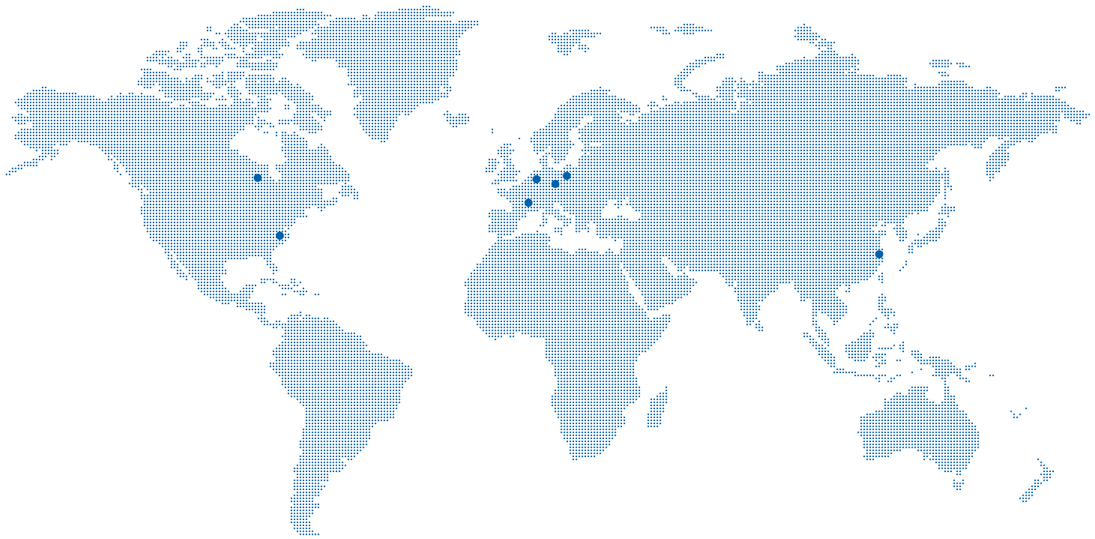

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# D-SUB/IP67 D-SUB CONNECTORS

D-SUB/IP67 D-SUB CONNECTORS

TECHNOLOGY IN CONNECTORS™

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IP67
Hoods
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