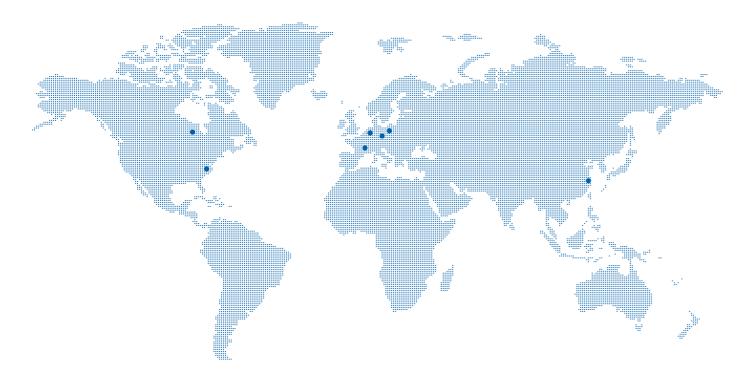
# TECHNOLOGY IN CONNECTORS

#### CONEC

Elektronische Bauelemente GmbH Ostenfeldmark 16 59557 Lippstadt Germany

Tel. +49 2941 765-0 Fax +49 2941 76565 E-Mail info@conec.de www.conec.com





#### **CONEC Corporation** 125 Sun Pac Blvd. Brampton Ontario Canada L6S 5Z6 Tel. +1 905 790 2200 Fax +1 905 790 2201

E-Mail info@conec.com



#### American CONEC Corporation

343 Technology Drive Garner, NC, USA 27529 Tel. +1 919 460 8800 Fax +1 919 460 0141 E-Mail info@conec.com



#### CONEC Polska Sp. zo.o ul.Szmaragdowa 10 52-215 Wroclaw Tel. +48 71 374 40 45

Fax +48 71 374 40 49 E-Mail info@conec.pl



# CONEC s.r.o.

Loucka137 76325 Ujezd Czech Republic Tel. +420 577 350 132 Fax +420 577 350 134 E-Mail info@conec.cz



#### **CONEC France SARL**

202 Rue des Chevreuils 30320 Poulx Tel. +33 9 75267217 Fax +33 4 66570916 E-Mail info@conec.fr



#### CONEC (Shanghai)

Int. Trading Co., Ltd. Rm. 718 Yongding Bldg. No. 3388 Gong He Xin Rd. 200436 Shanghai Tel. +86 21 66300930 Fax +86 21 66300911 E-Mail info@conec.cn

#### GB D-SUB/IP67 D-SUB **CONNECTORS**

D-SUB/IP67 D-SUB 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 USA, Garner



# Application-specific-solutions © CONTRACTOR © CONTRACTOR

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.

**Technology in connectors**™

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.

Downloaded from Arrow.com.

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.



#### CONTENT

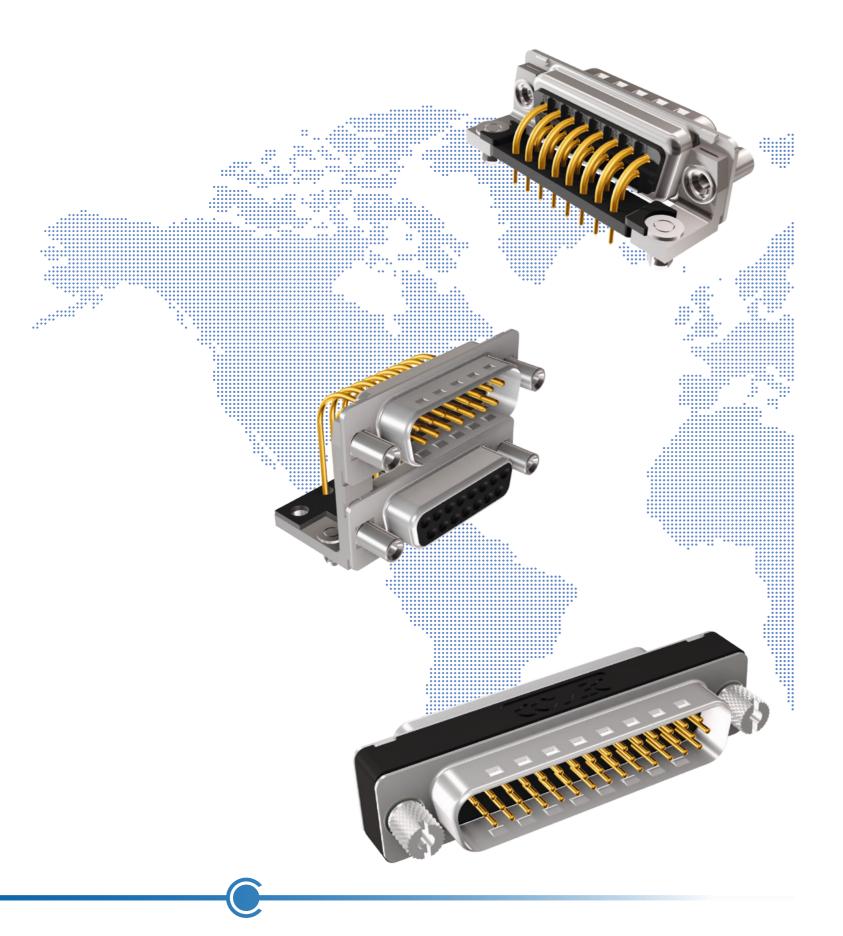
Section 1	D-SUB Connectors	
	Product specification – Mating conditions – Panel cut-out	8 - 9
	D-SUB Standard/CONEC SnapLock	10
	D-SUB Standard – Dual Port	18
	D-SUB Standard Crimp body (without contacts)	23
	D-SUB Standard Crimp-contacts	24
	D-SUB High Density	26
	D-SUB High Density Crimp-contacts	30
	D-SUB Adapter	31
Section 2	Combination D-SUB Connectors	
	Part Number Creator – Standard / High Density	34 - 35
	Product specification – Standard / High Density	36 - 37
	Contact arrangements – Mating conditions – Panel cut-out – Accessories	38 - 40
	Combination D-SUB with signal contacts	41
	Combination D-SUB with signal contacts High Density	57
	Combination D-SUB Version 2W2/3W3/5W5/8W8	65
	Combination D-SUB Crimp body (without contacts)	78
	Combination D-SUB Contacts	79
Section 3	FILTER D-SUB CONNECTORS	
	Product specification – Mating conditions – Panel cut-out	100 - 101
	Insertion loss	102
	C-Filter D-SUB Standard	104
	C-Filter D-SUB Dual Port	112
	LC-Filter D-SUB Standard	116
	π-Filter D-SUB Standard	118
	C-Filter D-SUB High Density	120
	LC-Filter D-SUB High Density	122
	Filter D-SUB Adapter	123
	Filter D-SUB Accessories	125
Section 4	Furne Course D SLIP Courses	
SECTION 4	FILTER COMBINATION D-SUB CONNECTORS  Part Number Creator - Product specification	120 120
	·	128 - 129
	Insertion loss – Panel cut-out – Termination code high power contact	130 - 131
	C-Filter Combination D-SUB, axial	132
	C-Filter Combination D-SUB, angled	139
	C-Filter Combination D-SUB, press-fit	140
Section 5	D-SUB Hoods and Accessories	7.46
	D-SUB Metal Hoods	146
	D-SUB Plastic Hoods CONEC SnapLock	155
	D-SUB Plastic Hoods	157
	IP67 D-SUB Plastic Hoods	175
	D-SUB protection caps	179
	D-SUB shielded cap	181
	IP67 D-SUB protection cap with gasket	185
	D-SUB Hardware accessories	187



Section 6	IP67 D-SUB Connectors	
	Part Number Creator – Product specification	196 - 197
	Panel mounting – Mating conditions – Panel cut-out	198 - 199
	Assembly	200
	Size comparison Series Standard/Solid Body versus series CONEC SlimCon	202
	IP67 D-SUB CONEC SlimCon IP67 D-SUB Standard Solid Body	203 205
	IP67 D-SUB High Density Solid Body	206
	IP67 D-SUB Standard	208
	IP67 D-SUB High Density	212
	IP67 D-SUB Standard, Adapter	214
Section 7	IP67 Combination D-SUB Connectors	
	Part Number Creator – Product specification	218
	Panel mounting – Mating conditions – Panel cut-out	222 - 223
	IP67 Combination D-SUB CONEC SlimCon	224
	IP67 Combination D-SUB Solid Body	227
	IP67 Combination D-SUB with signal & high power contacts IP67 Combination D-SUB with high power contacts	231 235
	IP67 Combination D-50B with high power contacts  IP67 Combination D-5UB without frame	238
	IP67 Combination D-SUB Front panel mounting	239
Section 8	IP67 FILTER D-SUB CONNECTORS	
	Part Number Creator – Product specification	244 - 245
	Mating conditions – Panel cut-out – Panel mounting	246 - 247
	Insertion loss	248
	IP67 Filter D-SUB C-Filter, CONEC SlimCon	249
	IP67 Filter D-SUB C-Filter, Standard	251
	IP67 Filter D-SUB C-Filter, High Density	257
Section 9	TECHNICAL INFORMATION	262
	Protection classes	262
	Electrotechnical information for coaxial and high voltage contacts  Typical Assembly for coaxial crimp contacts	263 264
	Solder profile	265
	Conversion table for units µm/mm/inch	266
	·	200
Section 10	Installation and assembly tools Installing/Removal tools	270
	Crimp tools and inserts	271
	Manually operated lever press + press in tool sets	275
Section 11	Additional product categories	
	IP67 Power Bayonet – IP67 Mini USB, USB 2.0, USB 3.0 connectors	278
	IP67 RJ45 Industrial Ethernet connectors – IP67 Fiber Optic LC Duplex	279
	CONEC Hybrid connectors – Circular connectors overmoulded Circular connectors field attachable – Sockets	280 281
	Sockets SMT/THR – Panel plugs	282
	Power connectors – High temperature/Food & Beverage connectors	283
	Connectors for BUS-Systems – Junction systems	284
	DT, Superseal and ISOBUS series	285
	Junction system Type S, M, L	286
	PCB connectors – Customized products	287
Section 12	Part Numbers	
		290



## **D-SUB CONNECTORS**





#### **D-SUB CONNECTORS**

#### Product specification

	D-SUB	D-SUB High Density					
Basic material	9-, 15-, 25-, 37-, 50-pos.	15-, 26-, 44-, 62-, 78-pos.					
Contact	Сор	per alloy					
Contact plating	Gold	over nickel					
Insulator	PBT GF	FUL 94 V-0					
Shell	Steel tin plated ∕ nickel plated (on r	equest brass tin plated or stainless steel)					
Technical Data							
Test voltage	1000 V, 50 Hz, for 1 Minute						
Working voltage	125 V AC/DC	60 V AC/DC					
	depending on isolation coordinati	on 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)					
Contact resistance	max. 10 m $\Omega$ prior to stressing $\Delta R$ ma	x. 10 m $\Omega$ after stressing per IEC 60807-2					
Insulation resistance	≥	5 GΩ					
Clearance and creepage distance	Contact - Contact ≥ 1.0 mm / 0.04"	≥ 0.6 mm / 0.024"					
	Contact - earth ≥ 1.2 mm / 0.047"						
Operating temperature	-55 °C	to +125 °C					
Making and amounting forms	0 may 7 20 N	15 may 6, 50 N					
Mating and unmating forces	9-pos. ≤ 30 N 15-pos. ≤ 50 N	15-pos. ≤ 50 N 26-pos. ≤ 84 N					
	25-pos. ≤ 83 N	20-pos. ≤ 04 N 44-pos. ≤ 120 N					
	37-pos. ≤ 123 N	62-pos. ≤ 170 N					
	50-pos. ≤ 167 N	78-pos. ≤ 200 N					
	55 553. = 157 1.	7 0 post = 200					
Quality class	A = Quality class 3	B = 50 mating cycles					
	· · · · · · · · · · · · · · · · · · ·	2 = 200 mating cycles					
	C = Quality class	I = 500 mating cycles					

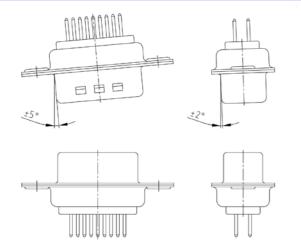
Technical specifications are subject to change without notice.



#### **D-SUB CONNECTORS**

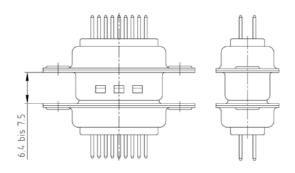
#### Mating conditions

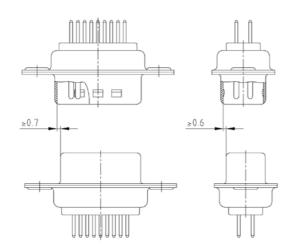
#### Max. tilt angle for connector mating



#### Range for safe contact

Lock-in range

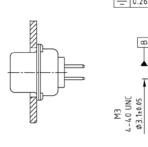


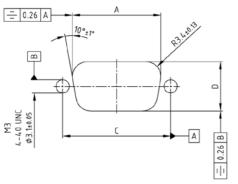


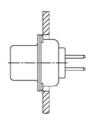
#### Panel cut-out

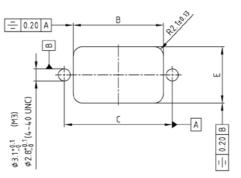
#### Back panel mounting

Front panel mounting









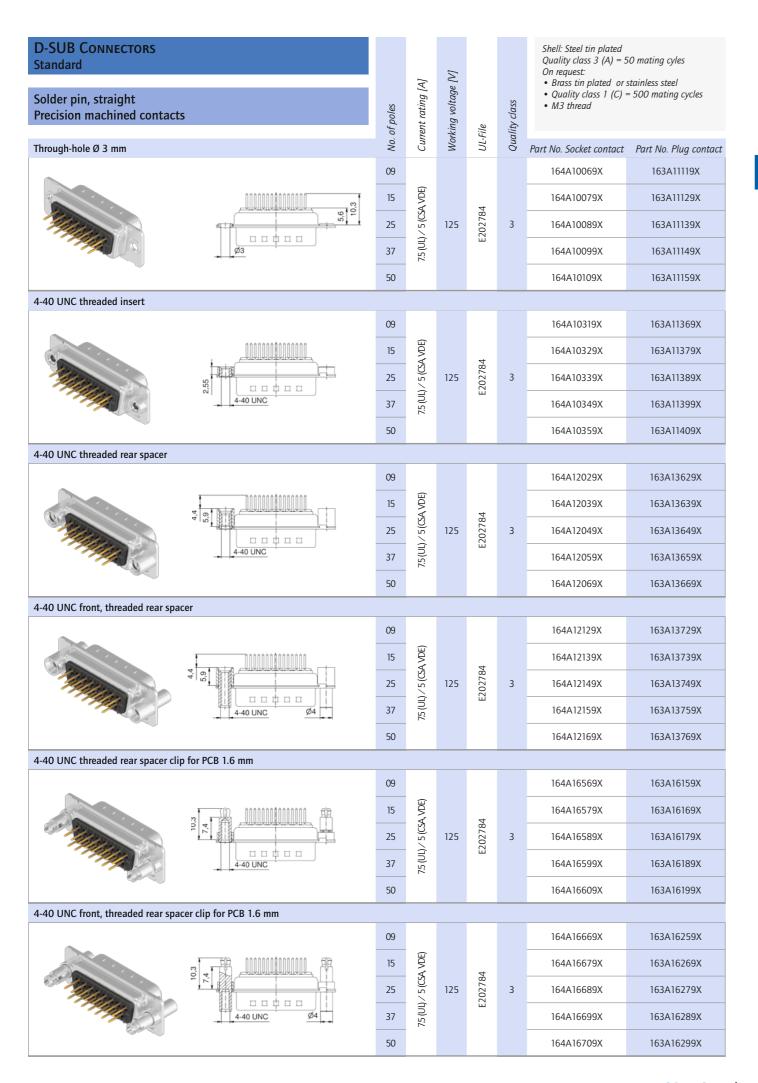
Shell size	No. of	poles	<b>A</b> ± 0.1	<b>B</b> ± 0.1	<b>C</b> ± 0.1	<b>D</b> ± 0.1	<b>E</b> ± 0.1
1	9	15	20.50	20.90	25.00	11.40	13.00
2	15	26	28.80	29.20	33.30	11.40	13.00
3	25	44	42.50	42.90	47.04	11.40	13.00
4	37	62	59.10	59.40	63.50	11.40	13.00
5	50	78	56.30	57.00	61.10	14.10	15.80

Technical specifications are subject to change without notice.

D-SUB CONNECTORS Standard			1 [A]	ıge [V]			Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) =	stainless steel
Solder cup Precision machined contacts	ined contacts, AWG 20		Current rating [A]	Working voltage [V]	UL-File	Quality class	• M3 thread	
Through-hole Ø 3 mm		No. of poles	Си	Wo	7/n	nO	Part No. Socket contact	Part No. Plug contact
		9		75 (UL) / 5 (CSA, VDE)	E202784		164A10019X	163A11069X
	THANKANAT	15	A, VDE)			3	164A10029X	163A11079X
		25	.) / 5 (CS				164A10039X	163A11089X
(3)	Ø3	37	75 (UL				164A10049X	163A11099X
		50					164A10059X	163A11109X
4-40 UNC threaded insert								
		09					164A10219X	163A11269X
	Tanaman	15	, VDE)				164A10229X	163A11279X
1	2,56	25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A10239X	163A11289X
· man	4-40 UNC	37	7.5 (UL		ш		164A10249X	163A11299X
		50					164A10259X	163A11309X
D-SUB CONNECTORS Standard Solder cup		es	iting [A]	oltage [V]		ass	Shell: Steel nickel plate Quality class 3 (A) = 5	

D-SUB CONNECTORS Standard			ľ	M			Shell: Steel nickel plate Quality class 3 (A) = 5	
Solder cup Stamped contacts, AWG 20		No. of poles	Current rating [A]	Working voltage [V]	ile	Quality class		
Through-hole Ø 3 mm		No.	Curi	Wor	UL-File	Ona	Part No. Socket contact	Part No. Plug contac
		09					302A10019X	301A10019X
	annalanna	15					302A10029X	301A10029X
The state of the s		25	3	125		3	302A10059X	301A10059X
	ø3	37					302A10069X	301A10069X
		50					302A10079X	301A10079X





Downloaded	from	Arrow	.com

D-SUB CONNECTORS Standard  CONEC SnapLock, Solder pir Precision machined contacts		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) =	stainless steel
SnapLock bolt, Clip for PCB 1.6 mm [s	uitable for CONEC SnapLock hoods]	No.	Cui	Wo	n.	On	Part No. Socket contact	Part No. Plug contact
D-0		09	(i)				16-002143	16-002093
	0 0 v	15	SĄ VD		34		16-002153	16-002103
The state of the s		25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	16-002163	16-002113
	Ø2.75	37	7.5 (UL)		ш		16-002173	16-002123
	- Payro	50					16-002183	16-002133
D-SUB CONNECTORS Standard  Solder pin, straight Stamped contacts		No. of poles	Current rating [A]	Working voltage [V]	ile	Quality class	Shell: Steel nickel plate Quality class 3 (A) = 5	
Through-hole Ø 3 mm		No.	Cum	Worl	UL-File	Qua	Part No. Socket contact	Part No. Plug contact
		09					DLS1XS4AD01X	DLS1XP4AD01X
	9 9	15					DLS2XS4AD01X	DLS2XP4AD01X
3333	w 6	25	3	125		3	DLS3XS4AD01X	DLS3XP4AD01X
3	ø3	37	7			DLS4XS4AD01X	DLS4XP4AD01X	
		50					DLS5XS4AD01X	DLS5XP4AD01X
4-40 UNC threaded insert								
	000000000000000000000000000000000000000	09					DLS1XS4AG06X	DLS1XP4AG06X
033		15		125			DLS2XS4AG06X	DLS2XP4AG06X
1000	88	25	3	125		3	DLS3XS4AG06X	DLS3XP4AG06X
	4-40 UNC	37					DLS4XS4AG06X	DLS4XP4AG06X
4-40 UNC threaded rear spacer		50					DLS5XS4AG06X	DLS5XP4AG06X
The entermination real spaces		09					DLS1XS4AA37X	DLS1XP4AA37X
	1 7000000000000000000000000000000000000	15					DLS2XS4AA37X	DLS2XP4AA37X
333	8,8	25	3	125		3	DLS3XS4AA37X	DLS3XP4AA37X
	4-40 UNC	37					DLS4XS4AA37X	DLS4XP4AA37X
	440 0110	50					DLS5XS4AA37X	DLS5XP4AA37X
4-40 UNC threaded rear spacer clip	for PCB 1.6 mm							
		09					DLS1XS4AA35X	DLS1XP4AA35X
GIA.	8.8	15					DLS2XS4AA35X	DLS2XP4AA35X
3333		25	3	125		3	DLS3XS4AA35X	DLS3XP4AA35X
	4-40 UNC	37					DLS4XS4AA35X	DLS4XP4AA35X
		50					DLS5XS4AA35X	DLS5XP4AA35X
4-40 UNC front, threaded rear space	er clip for PCB 1.6 mm							
	Tin appanantananan cin	09					DLS1XS4AA39X	DLS1XP4AA39X
C. P. C.	28.8	15 25 3				3	DLS2XS4AA39X	DLS2XP4AA39X
			3	125			DLS3XS4AA39X	DLS3XP4AA39X
	4-40 UNC	37					DLS4XS4AA39X	DLS4XP4AA39X
		50					DLS5XS4AA39X	DLS5XP4AA39X



D CUD C							
D-SUB CONNECTORS Standard  Wire wrap Precision machined contacts	No. of poles	Current rating [A]	Working voltage [V]	0)	Quality class	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	tainless steel
Through-hole Ø 3 mm	No. of	Curren	Workir	UL-File	Qualit	Part No. Socket contact	Part No. Plug contact
	09					164A10119X	163A11169X
20	15	VDE)				164A10129X	163A11179X
95	25	25 (UL) / 5 (CSA VDE)	125	E202784	3	164A10139X	163A11189X
Ø3 -	37	7.5 (L				164A10149X	163A11199X
	50					164A10159X	163A11209X
4-40 UNC threaded insert							
	09					164A10419X	163A11469X
	15	VDE)				164A10429X	163A11479X
	25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A10439X	163A11489X
4-40 UNC	37	75 (L				164A10449X	163A11499X
	50					164A10459X	163A11509X
D-SUB CONNECTORS Standard  IDC for flat cable		ng [A]	Working voltage [V]		S	Shell: Steel nickel plate Quality class 3 (A) = 5 Connector includes stre	0 mating cycles
Stamped contacts, AWG 26-28	No. of poles	Current rating [A]	king vol	ile	Quality class		
Through-hole Ø 3 mm	No.	Curr	Wor	UL-File	Qua	Part No. Socket contact	Part No. Plug contact
	09					302A10089X	301A10089X
	15	1	125		3	302A10099X	301A10099X
Ø3.05	25	Ċ	123		J	302A10109X	301A10109X
	37					302A10119X	301A10119X



D-SUB CONNECTORS Standard  Solder pin, angled, .318"/7.19 Precision machined contacts, n		No. of poles	Current rating [A]	Working voltage [V]	9)	Quality class	Shell: Steel tin plated Quality class 3 (A) = 5 On request:  • Brass tin plated or  • Quality class 1 (C):  • M3 thread	stainless steel
4-40 UNC threaded insert		No. of	Currer	Workii	UL-File	Qualit	Part No. Socket contact	Part No. Plug contact
		09					164A11519X	163A13069X
	81 50 00 00 00 00 00 00 00 00 00 00 00 00	15	VDE)				164A11529X	163A13079X
MAHA S	3,3 6,35	25	7.5 (UL) / 5 (CSA, VDE)	YS) 5 / (1)	E202784	3	164A11539X	163A13089X
and the same of th	61.7	37	7.5 (L				164A11549X	163A13099X
		50					164A18969X	163A18549X
4-40 UNC front spacer								
		09					164A16929X	163A16519X
0	8 4-40 UNC 94	15	(3CV VDE) 2 (125 / (101) 5/2				164A16939X	163A16529X
THERE S	3,3 6,35	25		125	E202784	3	164A16949X	163A16539X
		37				164A16959X	163A16549X	
		50					164A19019X	163A18589X
Clip for PCB 1.6 mm, 4-40 UNC thread	led insert							
		09					164A17939X	163A17529X
	99 =	15	VDE)				164A17949X	163A17539X
HAMAGO	3,3 6,35	25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A17959X	163A17549X
	2,19	37	7.5 (				164A17969X	163A17559X
		50					164A18989X	163A18569X
Clip for PCB 1.6 mm, 4-40 UNC front s	spacer	09					164A19039X	163A18609X
		15					164A19049X	163A18619X
- Comment of the Comm	4-40 UNC Ø4		(CSA, VDE)	125	784	2		
MALO	3,3 6,35	25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A19059X	163A18629X
	7.19	37					164A19069X	163A18639X
		50					164A19079X	163A18649X



D-SUB CONNECTORS Standard  Solder pin, angled, .318"/7.19 Precision machined contacts, p		No. of poles	Current rating [A]	Working voltage [V]	e	Quality class	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	stainless steel
Clip for PCB 1.6 mm, 4-40 UNC thread	ed insert	No. o	Curre	Work	UL-File	Quali	Part No. Socket contact	Part No. Plug contact
		09					164A18809X	163A18389X
	4-40 UNC	15	(CSA, VDE)	125	784	3	164A18819X	163A18399X
THE LO	3,3 6,35	25	75 (UL) / 5 (CSA VDE) 27 172 273 284 295 214 295 295 295 295 295 295 295 295 295 295	E202	3	164A18829X	163A18409X	
70		37					164A18839X	163A18419X
Clip for PCB 1.6 mm, 4-40 UNC front s	pacer							
		09					164A18889X	163A18469X
	4-40 UNC Ø4	15	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A18899X	163A18479X
	3,3 6,35	25	7.5 (UL) / 5	75 (UL) / 5	E202	3	164A18909X	163A18489X
The state of the s		37					164A18919X	163A18499X
D-SUB CONNECTORS Standard  Solder pin, angled, .318"/8.09	mm		g [A]	Working voltage [V]			Shell: Steel nickel plate Quality class 3 (A) = 5	d 60 mating cycles
Stamped contacts, plastic brac		poles	t ratin	ng volt		y class		
Clip for PCB 1.6 mm, 4-40 UNC thread	ed insert	No. of poles	Current rating [A]	Workin	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
		09					302A11339X	301A11029X
	4-40 UNC	15	- 3	125		3	302A11349X	301A11039X
No Property See	3,3 6,35	25					302A11359X	301A11049X
<b>™</b>		37					302A11369X	301A11059X
Clip for PCB 1.6 mm, 4-40 UNC front s	pacer							
		09					302A11249X	301A10939X
3	4-40 UNC	15	3	125		3	302A11259X	301A10949X
Thursday.	3,3 6,35	25					302A11269X	301A10959X
		37					302A11279X	301A10969X

•	Aj	i M	le		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		
f poles	Current rating [A]	Working voltage [V]		ty class			
No. ot	Currei	Worki	UL-Fil	Quali	Part No. Socket contact	Part No. Plug contact	
09					164A18809X	163A18389X	
15	(CSA, VDE)	125	784		164A18819X	163A18399X	
25	7.5 (UL) / 5	125	E202	3	164A18829X	163A18409X	
37					164A18839X	163A18419X	
09					164A18889X	163A18469X	
15	5 (CSA, VDE)	125	2784	3	164A18899X	163A18479X	
25	75 (UL) / 5	0	E20	J	164A18909X	163A18489X	
37					164A18919X	163A18499X	
S	ing [A]	oltage [V]		SS	Shell: Steel nickel plate Quality class 3 (A) = 5	d 10 mating cycles	
of pole	ent ra	king ve	ali-	lity cla			
No.	Cun	Wor	nr-1	Qua	Part No. Socket contact	Part No. Plug contact	
09					302A11339X	301A11029X	
15	3	125		3	302A11349X	301A11039X	
	3	125		3	302A11359X	301A11049X	
25							
37					302A11369X	301A11059X	
					302A11369X	301A11059X	
					302A11369X 302A11249X	301A11059X 301A10939X	
37	3	125		3			
37	3	125		3	302A11249X	301A10939X	
	15 25 37 09 15 37 09 09 09	69 No. of poles 22 22 22 22 22 22 22 24 25 Current rating [A] 75 (U1) / 5 (CSA, VDE) 75 (U1) / 5 (CSA, VDE)	09   15   25   37   25   25   37   25   25   37   26   27   27   27   27   27   27   2	So   No of poles   So   State   Stat	Current rating [A] 75 (CSA, VDE) 60 8 9 12 25 32 3 3 3 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	15	

D-SUB CONNECTORS Standard  Solder pin, angled, .370"/9.4 mm Precision machined contacts, plan		No. of poles	Current rating [A]	Working voltage [V]	e	Quality class	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	stainless steel
Through-hole Ø 3,4 mm		No. o	Curre	Work	UL-File	Quali	Part No. Socket contact	Part No. Plug contact
	14 00000000 1	09					164A10669X	163A11719X
	14.6	15	/DE)				164A10679X	163A11729X
	Ø3.4 3.8 7.4	25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A10689X 163A1	163A11739X
	4.0	37	7.5 (U	7.5 (			164A10699X	163A11749X
		50					164A10709X	163A11759X
Grounding strap, 4-40 UNC threaded inse	ert							
	2. 2. 3. 4.6 4.6	09					164A12329X	163A14119X
	8 1 1 1 1 1 1	15	CSA, VDE)	.SA, VDE)	784		164A12339X	163A14129X
Chille 19	3.8 7.4	25	15 (Ada VS2) 125 25 (17) 57 37	E202784	3	164A12349X	163A14139X	
	6	37					164A12349X 163A14139X 164A12359X 163A14149X	163A14149X
Grounding strap, 4-40 UNC front spacer								
	**************************************	09					164A12229X	163A13829X
	4-40 UNC Ø4	15	(CSA, VDE)		784		164A12239X	163A13839X
William Ja	3,8 7,4	25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A12249X	163A13849X
	40	37					164A12259X	163A13859X
Clip for PCB 1.6 mm, 4-40 UNC threaded	insert							
	A mmm A.	09					164A12969X	163A14489X
9	148	15	VDE)				164A12979X	163A14499X
	4-40 UNC	25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A12989X	163A14509X
	3,8 7,4	37	7.5 (UI),		E2	ш	164A12999X	163A14519X
		50					164A19139X	163A18709X



#### **D-SUB CONNECTORS** Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles Standard On request: Working voltage [V] Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, angled, .370"/9.4 mm Precision machined contacts, plastic bracket • Quality class 1 (c) 300 maxing symmetry • M3 thread Part No. Socket contact Part No. Plug contact No. of poles UL-File Clip for PCB 1.6 mm, 4-40 UNC front spacer 09 164A13089X 163A14609X 15 164A13099X 163A14619X 7.5 (UL) / 5 (CSA, VDE) 25 E202784 125 164A13109X 163A14629X 164A13119X 163A14639X 50 164A19159X 163A18729X

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

4-40 UNC threaded insert							Part No. Socket contact	Part No. Plug contact
~	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	09					164A10969X	163A12019X
	9	15	VDE)				164A10979X	163A12029X
	3,7 7,5 7,5	25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A10989X	163A12039X
	4.6	37	7.5 (UL		ш		164A10999X	163A12049X
		50					164A18739X	163A18319X
Clip for PCB 1.6 mm, 4-40 UNC thread	ed insert							
		09					164A16769X	163A16359X
		15	, VDE)		_		164A16779X	163A16369X
	3.7 7.5	25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A16789X	163A16379X
	4.0	37	7.5 (UI				164A16799X	163A16389X
		50					164A18759X	163A18339X
D-SUB CONNECTORS Standard				1			Shell: Steel nickel plate Quality class 3 (A) = 5	d O mating cycles
Solder pin, angled, .370"/10.3 Stamped contacts, plastic brac		səlc	Current rating [A]	Working voltage [V]		class		
Stamped contacts, plastic stac	NOT	No. of poles	rrent	orking	UL-File	Quality class		
Clip for PCB 1.6 mm, 4-40 UNC front s	pacer	No	Cn	ğ	77	70	Part No. Socket contact	Part No. Plug contac
		09					302A10779X	301A10679X
S. Property of the second	4-40 UNC	15	,	125		3	302A10789X	301A10689X
	3.3 6.35	25	3	125		3	302A10799X	301A10699X
	0.0	37					302A10809X	301A10709X

**CONEC** 1 | 17

Plug upper - Plug bottom Solder pin, angled, precision machined 4-40 UNC threaded insert	contacts	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, 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  Part No.
3.2		09/09						163A15199X
<b>*</b>	( 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	15/15					.625	163A15209X
		25/25	E)				15.88	163A15219X
	1-40 UNC	37/37	CSA, VD		784			163A15229X
	4,36	09/09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3		163A15519X
		15/15	7.5 (1				.750	163A15529X
61.7		25/25					19.05	163A15539X
	x	37/37						163A15549X
4-40 UNC front spacer								
3,2	anadanaa 🔠	09/09						163A15359X
41	8.8	15/15					.625	163A15369X
			5/25 資				15.88	163A15379X
	4-40 UNC Ø4	37/37	E202784	2		163A15389X		
	4,36	09/09	)) 5 \ (10) 5:	E202	3		163A15679X	
2,19		15/15			.750	163A15689X		
		25/25	5/25				19.05	163A15699X
	×	37/37						163A15709X
Clip for PCB 1.6 mm, 4-40 UNC threaded insert								
•		09/09						163A19969X
•	18.8	15/15					.625	163A19979X
	40 UNC	25/25	DE)				15.88	163A19989X
		37/37	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3		163A19999X
	36	09/09	(UL) / 5	123	E202	3		163A19489X
6.7		15/15	7.5				.750	163A19499X
7		25/25					19.05	163A19509X
	- X	37/37						163A19519X
Clip for PCB 1.6 mm, 4-40 UNC front spacer								
•		09/09						163A19329X
•	15.26	15/15					.625	163A19339X
		25/25	(DE)				15.88	163A19349X
	40 UNC Ø4	37/37	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3		163A19359X
	.36	09/09	3/(1n)	123	E20.	J		163A19649X
7,19		25/25	7.5		ш		.750	163A19659X
7.		25/25					19.05	163A19669X
	x		37/37					

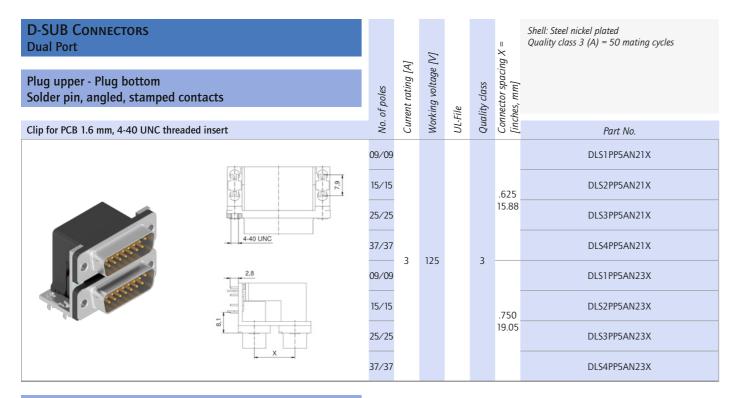


D-SUB CONNECTORS Dual Port  Plug upper - Socket bottom Solder pin, angled, precision ma 4-40 UNC threaded insert	achined contacts	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles On request: • Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread  Part No.
4-40 ONC tilleaded lilsert		09/09			7		0 7	163A15239X
		15/15						163A15249X
	4 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	25/25					.625 15.88	163A15259X
(In the second	4-40 UNC	37/37	7.5 (UL) / 5 (CSA, VDE)		34			163A15269X
	4.36	09/09	.) / 5(C	125	E202784	3		163A15559X
· Contract		15/15	7.5 (UL		ш			163A15569X
	2,19	25/25					.750 19.05	163A15579X
	x	37/37						163A15589X
4-40 UNC front spacer		31/31						102V1220AV
1 to one none space.	3.2	09/09						163A15399X
		15/15						163A15409X
	4	25/25	(i)				.625 15.88	163A15419X
	4-40 UNC Ø4	37/37	7.5 (UL) / 5 (CSA, VDE)		84			163A15429X
	4,36	09/09	r) / 5 (c	125	E202784	3		163A15719X
Constitution of the Consti		15/15	7.5 (U					163A15729X
		25/25				.750 _ 19.05		163A15739X
	X X	37/37						163A15749X
Clip for PCB 1.6 mm, 4-40 UNC threade	ed insert							
		09/09						163A20009X
	⊕	15/15					.625	163A20019X
	7.7	25/25	(i				15.88	163A20029X
100	4-40 UNC	37/37	CSA, VD		784			163A20039X
	4,36	09/09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3		163A19529X
· Constant		15/15	7.5 (L				.750	163A19539X
0.1	617	25/25					19.05	163A19549X
	х	37/37						163A19559X
Clip for PCB 1.6 mm, 4-40 UNC front sp	pacer							
		09/09						163A19369X
	8.8	15/15					.625	163A19379X
	312	25/25	OE)				15.88	163A19389X
P. C. STATE	4-40 UNC Ø4	37/37	(CSA, VI	125	784	2		163A19399X
	4,36	09/09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3		163A19689X
		15/15	7.5 (				.750	163A19699X
	25/25					19.05	163A19709X	
	4 x 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25/25				19.0		163A19719X

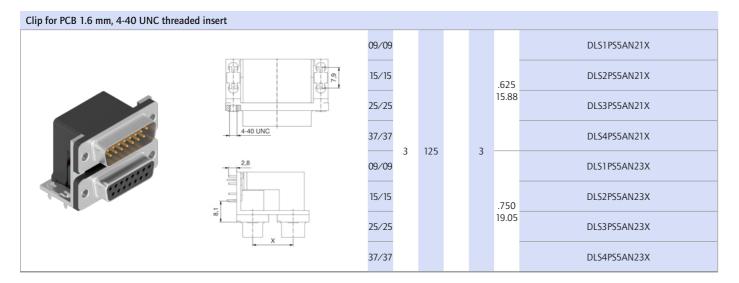
#### **D-SUB CONNECTORS** Shell: Steel tin plated Quality class $\dot{3}$ (A) = 50 mating cyles **Dual Port** On request: Working voltage [V] Brass tin plated or stainless steel Current rating [A] • Quality class 1 (C) = 500 mating cycles Quality class Connector spac [inches, mm] Socket upper - Socket bottom • M3 thread No. of poles Solder pin, angled, precision machined contacts 4-40 UNC threaded insert Part No. 09/09 164A15609X 15/15 164A15619X .625 25/25 37/37 09/09 15.88 164A15629X 7.5 (UL) / 5 (CSA, VDE) E202784 164A15639X 125 164A15929X 15/15 164A15939X .750 19.05 25/25 164A15949X 37/37 164A15959X 4-40 UNC front spacer 09/09 164A15769X 15/15 164A15779X .625 15.88 25/25 164A15789X 7.5 (UL) / 5 (CSA, VDE) 37/37 E202784 164A15799X 125 164A16089X 15/15 164A16099X .750 19.05 25/25 164A16109X 37/37 164A16119X Clip for PCB 1.6 mm, 4-40 UNC threaded insert 09/09 164A20409X 15/15 164A20419X .625 15.88 25/25 164A20429X 7.5 (UL) / 5 (CSA, VDE) 37/37 E202784 164A20439X 125 09/09 164A19919X 15/15 164A19929X .750 19.05 25/25 164A19939X 37/37 164A19949X Clip for PCB 1.6 mm, 4-40 UNC front spacer 09/09 164A19759X 15/15 164A19769X .625 15.88 25/25 164A19779X 7.5 (UL) / 5 (CSA, VDE) E202784 37/37 164A19789X 125 09/09 164A20079X 164A20089X .750 19.05 25/25 164A20099X 37/37 164A20109X



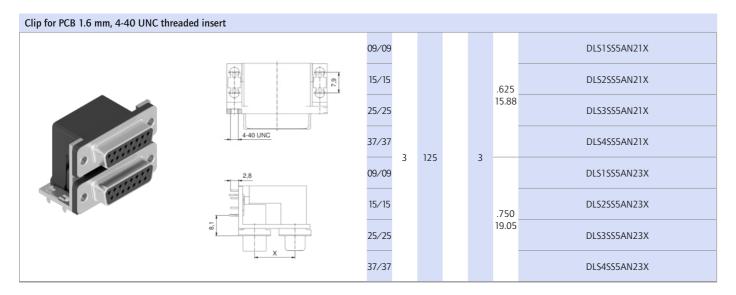
D-SUB CONNECTORS Dual Port  Socket upper - Plug buttom Solder pin, angled, precision m	nachined contacts	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles On request: • Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread
4-40 UNC threaded insert		09/09		3	٦	0	ن نظ	Part No. 164A15649X
	3.2	15/15						164A15659X
	4.77.19 15.26 15.26 18.88	25/25					.625 15.88	164A15669X
(la Constitution of the Co	4-40 UNC	37/37	SA, VDE)		34			164A15679X
	4,36	09/09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3		164A15969X
STATE OF THE PARTY		15/15	7.5 (U				750	164A15979X
	612	25/25					.750 19.05	164A15989X
	x	37/37						164A15999X
4-40 UNC front spacer								
	3,2	09/09						164A15809X
	8.88	15/15					.625	164A15819X
	25		DE)				15.88	164A15829X
P COST	4-40 UNC Ø4	37/37	(CSA,V	125	E202784	2		164A15839X
1	4.36	09/09	(UL) / 5	123	E202	3		164A16129X
1		15/15	7.5				.750	164A16139X
		25/25					19.05	164A16149X
	X	37/37						164A16159X
Clip for PCB 1.6 mm, 4-40 UNC thread	ded insert							
		09/09						164A20449X
	0 0 0 1 2 3 8 1 8 8 8 1 8 8 8 1 8 1 8 1 8 1 8 1 8	15/15					.625 15.88	164A20459X
		25/25	VDE)				13.00	164A20469X
1000000	4.40 UNC 4,36	37/37	, 5 (CSA	125	02784	3		164A20479X
- Table		09/09	.5 (UL) /		E2			164A19959X
	113	15/15	7				.750	164A19969X
	×	25/25					13.03	164A19979X
	H H	37/37						164A19989X
Clip for PCB 1.6 mm, 4-40 UNC front	spacer							
		09/09					625	164A19799X
	15.26	15/15				15.88	164A19809X	
STREET, STREET	4-40 UNC Ø4	25/25	A, VDE)	SA, VDE)	4			164A19819X
	4,36	09/09	/5 (CS	125	20278	3		164A20119X
		15/15	7.5 (UL)		ш		750	164A20129X
	61.7	25/25	15 25 164A1613  164A1613  1750 164A1613  164A2042  1750 164A1993  1750 164A2013	164A20139X				
	x I	37/37						164A20149X
		31/31						IJTAZUITJA



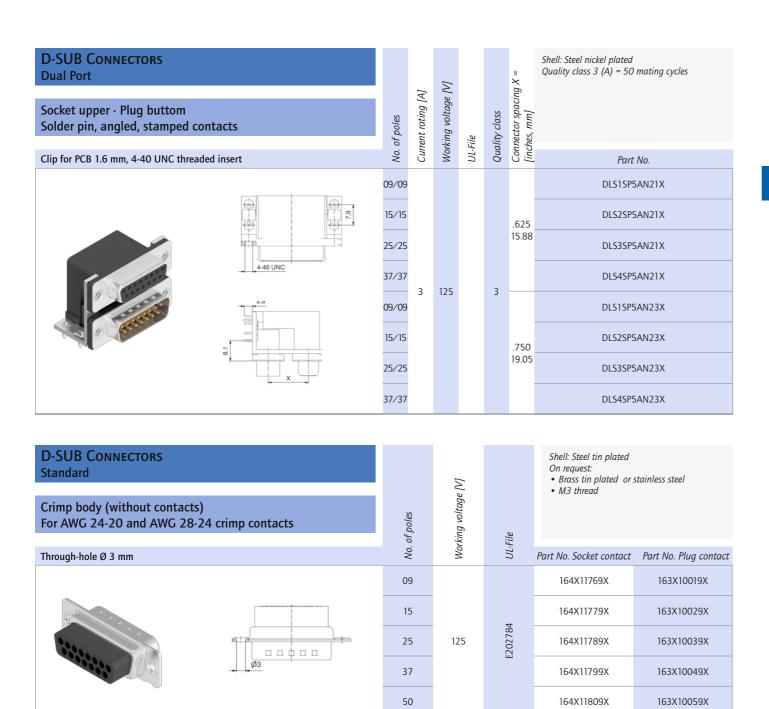
Plug upper - Socket bottom Solder pin, angled, stamped contacts



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







09

15

25

37

50

125

DSS1XSXXG04X

DSS2XSXXG04X

DSS3XSXXG04X

DSS4XSXXG04X

DSS5XSXXG04X

**CONEC** 1 23

DSS1XPXXG04X

DSS2XPXXG04X

DSS3XPXXG04X

DSS4XPXXG04X

DSS5XPXXG04X



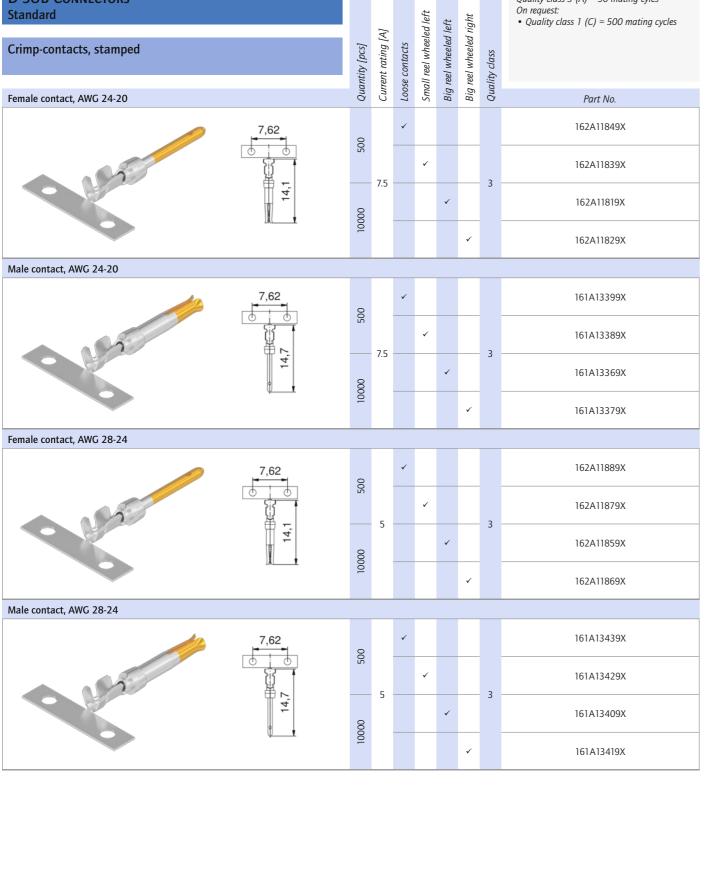
4-40 UNC threaded insert

D-SUB CONNECTORS Standard  Crimp-contacts, precision machined		Quantity [pcs]		inner $\emptyset$ $A = [mm]$ $Contacts$ $Contacts$ $Contacts$ $Contacts$ $Contacts$	Quality class 3 (A) = 50 mating cyles Quality class 1 (C) = 500 mating cycles On request: • Female/Male contact quality class 1 (Closed entry version only in quality class 3)			
Female contact		Quai	AWG	Curr	Crim	Quai	7005	Part No.
	Ø1,66	500	24.20	7.5	1112			162A18709X
	A A	100	24-20	7.5	1,12		,	16-001653
	Ø2,15 \$ 4.	500	20.24	_	0.54	3	<b>V</b>	162A18719X
	<b>∐</b>	100	28-24	5	0,64			16-001663
Female contact closed entry								
	Ø1,69 Ø2,13	100					132C15019X	
	13,65	100	28-24	5	0,6	1	v	132C15029X
Male contact								
	Ø1,66	500	-24-20	75	1,12			161A18299X
	Ø2,11 & & 50	100	24-20	7.5	1,12	3	./	16-001673
		500	70 74		0.64	3	<b>√</b>	161A18309X
		28-24 100	5	0,64			16-001683	



D-SUB CONNECTORS Standard			4J		ed left	left	' right		Quality class 3 (A) = 50 mating cyles On request: • Quality class 1 (C) = 500 mating cycles	
Crimp-contacts, stamped		Quantity [pcs]	Current rating [A]	Loose contacts	Small reel wheeled left	Big reel wheeled left	Big reel wheeled right	Quality class		
Female contact, AWG 24-20		Qua	Curr	7005	Sma	Big	Big	Qna	Part No.	
	7,62	200		✓					162A11849X	
			7.5		✓			3 -	On request: • Quality class 1 (C) = 500 mating cycles  Part No.	
	14,1	10000				✓			Part No.  162A11849X  162A11839X  162A11829X  161A13399X  161A13369X  161A13379X  162A11889X  162A11879X  162A11859X  162A11859X  161A13439X	
		01					✓		162A11829X	
Male contact, AWG 24-20										
	7,62	200		✓				_	161A13399X	
100	# Z		7.5		✓			3 -	Part No.  162A11849X  162A11839X  162A11829X  161A13389X  161A13369X  161A13379X  162A11889X  162A11879X  162A11859X  161A13439X  161A13439X	
	14,7	10000				✓		_	Part No.  162A11849X  162A11819X  162A11829X  161A13399X  161A13369X  161A13379X  162A11889X  162A11879X  162A11859X  162A11859X  161A13439X	
	·	0					✓		161A13379X	
Female contact, AWG 28-24										
	7,62	200		✓					162A11889X	
100		2(	5		✓			3 -	162A11879X	
	14,1	10000	3			✓		_	162A11859X	
		0					✓		162A11869X	
Male contact, AWG 28-24										
	7,62	200		✓					161A13439X	
		5(	5		✓			3	161A13429X	
	14,7	000	J			✓		3	On request: • Quality class 1 (C) = 500 mating cycles  Part No.  162A11849X  162A11839X  162A11829X  161A13389X  161A13369X  161A13379X  162A11889X  162A11879X  162A11859X  161A13439X  161A13439X	
		10000					✓		161A13419X	

**CONEC** 1 | 25 Downloaded from Arrow.com.



D-SUB CONNECTORS High Density  Solder cup Precision machined contacts,	AWC 22	les	Current rating [A]	Working voltage [V]		lass	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	stainless steel
riecision macimied contacts,	AWU 22	No. of poles	rrent r	ırking	UL-File	Quality class		
Through-hole Ø 3 mm		No	Cu	Wo	UL	nO	Part No. Socket contact	Part No. Plug contact
		15					164A17009X	163A16599X
		26			4		164A17019X	163A16609X
		44		60	E202784	3	164A17029X	163A16619X
	Ø3	62	3 (UL,		_		164A17039X	163A16629X
		78					164A17049X	163A16639X
4-40 UNC threaded insert								
		15					164A17059X	163A16649X
	adadadada	26	5 (CSA)		4		164A17069X	163A16659X
	2,55	44	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A17079X	163A16669X
	4-40 UNC	62 (1n) E				164A17089X	163A16679X	
		78					164A17099X	163A16689X
D-SUB CONNECTORS High Density							Shell: Steel nickel plate Quality class 3 (A) = 5	d iO mating cycles
			[A]	ige [V]				
Solder cup Stamped contacts, AWG 22		poles	Current rating [A]	ng voltage [V]		ı class		
Through-hole Ø 3 mm		No. of	Curren	Workir	UL-File	Quality	164A17019X 163A160 164A17029X 163A160 164A17039X 163A160 164A17049X 163A160 164A17059X 163A160 164A17069X 163A160 164A17079X 163A160 164A17099X 163A160 164A17099X 163A160 164A17099X 163A160 164A17099X 163A160 164A17099X 163A160 164A17099X 163A160 302A10139X 301A10 302A10139X 301A10 302A10159X 301A10	Part No. Plug contact
		15						301A10129X
	RAARAAAA	26					302A10139X	301A10139X
		44	3	60		3	302A10149X	301A10149X
	Ø3	62					302A10159X	301A10159X
		78					302A11329X	301A11019X



D-SUB CONNECTORS High Density  Solder pin, straight Precision machined contacts		No. of poles	Current rating [A]	Working voltage [V]	ile	Quality class	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or 9 • Quality class 1 (C) = • M3 thread	stainless steel
Through-hole Ø 3 mm		No.	Curr	Wor	UL-File	Qua	Part No. Socket contact	Part No. Plug contact
		15					164A17159X	163A16749X
7	11111111111111111111111111111111111111	26	(CSA)		4		164A17169X	163A16759X
	1.13	44	3 (UL, VDE) /2.5 (CSA)	60	E202784	3	164A17179X	163A16769X
	ø3	62	3 (UL)				164A17189X	163A16779X
	78	78					164A17199X	163A16789X
4-40 UNC threaded insert								
		15					164A17209X	163A16799X
		26	(CSA)		_		164A17219X	163A16809X
	2,58	44	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A17229X	163A16819X
	4-40 UNC	62	3(UL,\		_		164A17239X	163A16829X
		78					164A17249X	163A16839X
4-40 UNC threaded rear spacer clip for	or PCB 1.6 mm							
		15					164A17359X	163A16949X
		26	(CSA)				164A17369X	163A16959X
	7.4	44	3 (UL, VDE) /2.5 (CSA)	60	E202784	3	164A17379X	163A16969X
	4-40 UNC	62	3 (UL, \		ш		164A17389X	163A16979X
		78					164A17399X	163A16989X
4-40 UNC front, threaded rear spacer	clip for PCB 1.6 mm							
		15					164A17459X	163A17049X
		26	5 (CSA)		<del></del>		164A17469X	163A17059X
	74	44	3 (UL, VDE) /2.5 (CSA)	60	E202784	3	164A17479X	163A17069X
	4-40 UNC Ø4	62	3 (UL, VI		Ш		164A17489X	163A17079X
		78					164A17499X	163A17089X

D-SUB CONNECTORS High Density  Solder pin, angled, .350"/7.98 r Precision machined contacts, pla		No. of poles	Current rating [A]	Working voltage [V]	e e	Quality class	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	stainless steel
Grounding strap, 4-40 UNC threaded in	sert	No. 0	Curre	Work	UL-File	Quali	Part No. Socket contact	Part No. Plug contact
	8 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	15					164A18019X	163A17609X
	4-40 UNC	26	/2.5(CSA)		784		164A18029X	163A17619X
THE PERSON NAMED IN COLUMN TO PERSON NAMED I	3,35 6,3	44	3 (UL, VDE) /2.5 (CSA)	60	E202784	3	164A18039X	163A17629X
	2.9	62					164A18049X	163A17639X
Grounding strap, 4-40 UNC front spacer								
	23.55 14.44	15					164A18099X	163A17689X
	4-40 UNC Ø4	26	3 (UL, VDE) /2.5 (CSA)	60	E202784	3	164A18109X	163A17699X
	3,35 6.3	44	3 (UL, VDE)	00	E202	3	164A18119X	163A17709X
	~	62						163A17719X
Clip for PCB 1.6 mm, 4-40 UNC threaded	l insert							
	35 <del>1</del> 14.4	15					164A20929X	163A20489X
	95.01 4-40 UNC	26	/2.5 (CSA)	60	784	2	164A20939X	163A20499X
	3,35 6,3	44	3 (UL, VDE) /2.5 (CSA)	60	E202784	3	164A20949X	163A20509X
	7,98	62					164A20959X	163A20519X
Clip for PCB 1.6 mm, 4-40 UNC front spa	acer							
	81.4	15					164A21009X	163A20569X
	4-40 UNC Ø4	26	/2.5 (CSA)	50	784	2	164A21019X	163A20579X
	3,35 6,3	44	3 (UL, VDE) / 2.5 (CSA)	60	E202784	E7077	164A21029X	163A20589X
	7.98	62				164A21039X	163A20599X	

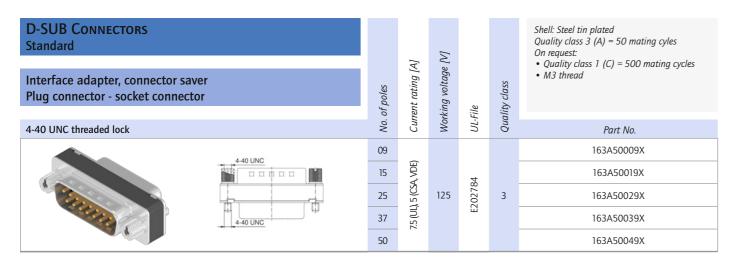


D-SUB CONNECTORS High Density  Solder pin, angled, .350"/7.98 m Precision machined contacts, met		No. of poles	Current rating [A]	Working voltage [V]	ile	Quality class	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	stainless steel
Clip for PCB 1.6 mm, 4-40 UNC threaded	insert	No.	Curr	Won	UL-File	Qna	Part No. Socket contact	Part No. Plug contact
		15					164A18179X	163A17769X
	10.56	26	(SA)				164A18189X	163A17779X
	4-40 UNC 3.3 6.35	44	3 (UL, VDE) /2.5 (CSA)	60	E202784	3	164A18199X	163A17789X
The state of the s	86.7	62	3 (UL				164A18209X	163A17799X
		78					164A18629X	163A18219X
Clip for PCB 1.6 mm, 4-40 UNC front space	cer							
		15					164A18259X	163A17849X
0	10.55	26	3A)				164A18269X	163A17859X
	4-40 UNC Ø4	44	3 (UL, VDE) /2.5 (CSA)	60	E202784	3	164A18279X	163A17869X
A THE PROPERTY OF THE PARTY OF	86.77.98	62	3 (UL				164A18289X	163A17879X
		78					164A18649X	163A18239X
D-SUB CONNECTORS High Density  Solder pin, angled, .350"/8.78 m Precision machined contacts, plas		No. of poles	Current rating [A]	Working voltage [V]	ile	Quality class	Shell: Steel nickel plate Quality class 3 (A) = 5	d O mating cycles
Clip for PCB 1.6 mm, 4-40 UNC front space	cer	No.	Cur	Wor	UL-File	Ona	Part No. Socket contact	Part No. Plug contact
		15					302A10869X	301A10869X
		26					302A10879X	301A10879X
	4-40 UNC 3,3 6.35	44	3	60		3	302A10889X	301A10889X
	8.78	62					302A10899X	301A10899X
		78					302A11629X	301A11369X



D-SUB CONNECTORS High Density  Crimp body (without contacts) For AWG 28-22 crimp contacts	No. of poles	Working voltage [V]		a	Shell: Steel tin plated On request: • Brass tin plated or stainless steel		
Through-hole Ø 3 mm	No. of	Worki		UL-File	Part No. Socket contact	Part No. Plug contact	
	15				164X11949X	163X10169X	
	26				164X11959X	163X10179X	
<u> </u>	44	60		E202784	164X11969X	163X10189X	
- As	62			ш	164X11979X	163X10199X	
	78				164X11989X	163X10209X	
D-SUB CONNECTORS High Density  Crimp-contacts, precision machined	Quantity [pcs]	Current rating [A]	Loose contacts	Quality class	Quality class 3 (A) = 5 On request: • Quality class 1 (C) =		
Female contact, AWG 28-22	Quan	Curre	Loose	Quali	Part No.		
Ø1,2 Ø0,8 Ø1,55	500	3	<b>√</b>	3	162A	18419X	
Female contact closed entry, AWG 28-22							
Ø1,19 Ø0,87 Ø1,55 Ø1,55	500	3	✓	3	16-000693		
Male contact, AWG 28-22							
Ø1,2 Ø0,8 Ø1,6	500	3	✓	3	161A	18009X	

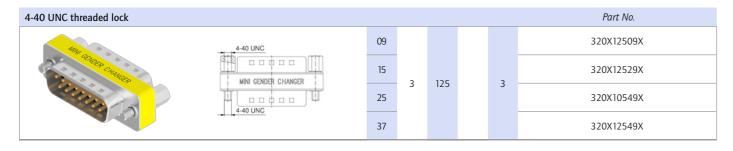




D-SUB CONNECTORS High Density			, [A]	ge [V]			Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles On request: • Quality class 1 (C) = 500 mating cycles • M3 thread
Interface adapter, connector saver Plug connector - socket connector  4-40 UNC threaded lock		No. of poles	Current rating [A]	Working voltage	UL-File	Quality class	
							Part No.
		15					164A03399X
4-40 UNC		26	.5(CSA	.5 (CSA)	E202784	3	164A03919X
GONES 4-40 UNC		44	3 (UL, VDE) / 2.5 (GSA)	60			164A03929X
4-40 UNC		62	, (UL, V <sub>i</sub>	3 (01, 24			164A03939X
		78	m)				DAH5XAAAR04X

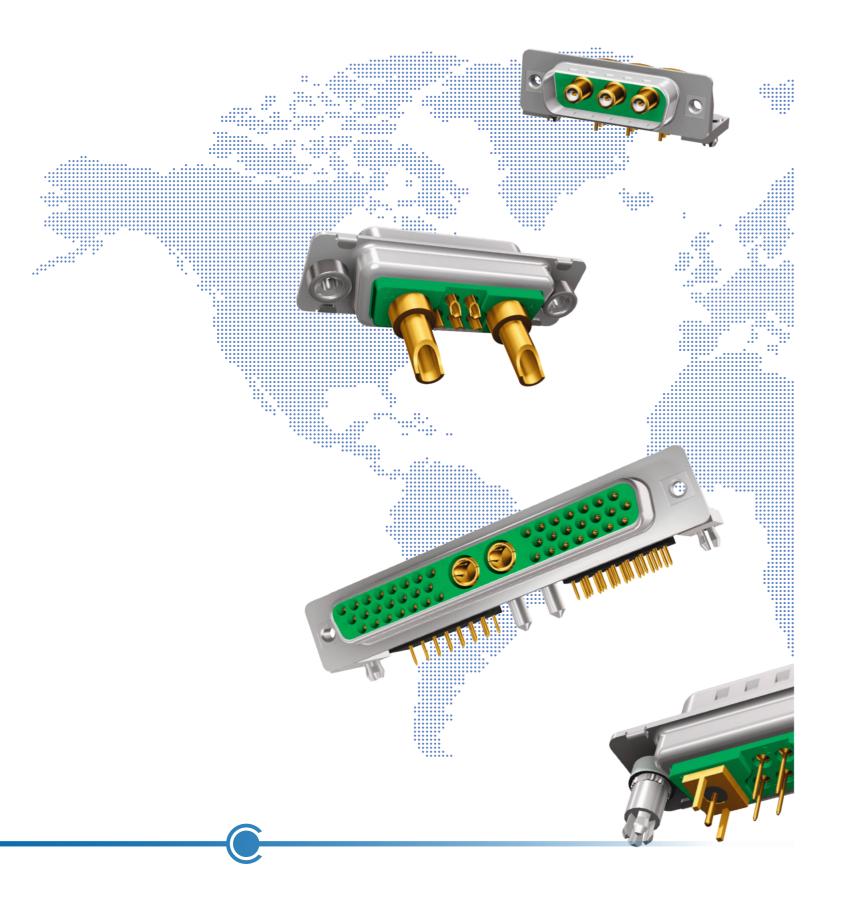
D-SUB CONNECTORS Standard  Interface adapter, gender changer Socket connector - socket connector		Current rating [A]	Working voltage [V]	o)	Quality class	Shell: Steel nickel plated Quality class 3 (A) = 50 mating cycles
4-40 UNC threaded lock	No. of poles	Currei	Worki	UL-File	Quali	Part No.
4-40 UNC						320X12519X
O COMPANY CHANGES	15	3	125		3	320X12539X
MINI GENDER CHANGER	25	3				320X10559X
4-40 UNC	37					320X12559X

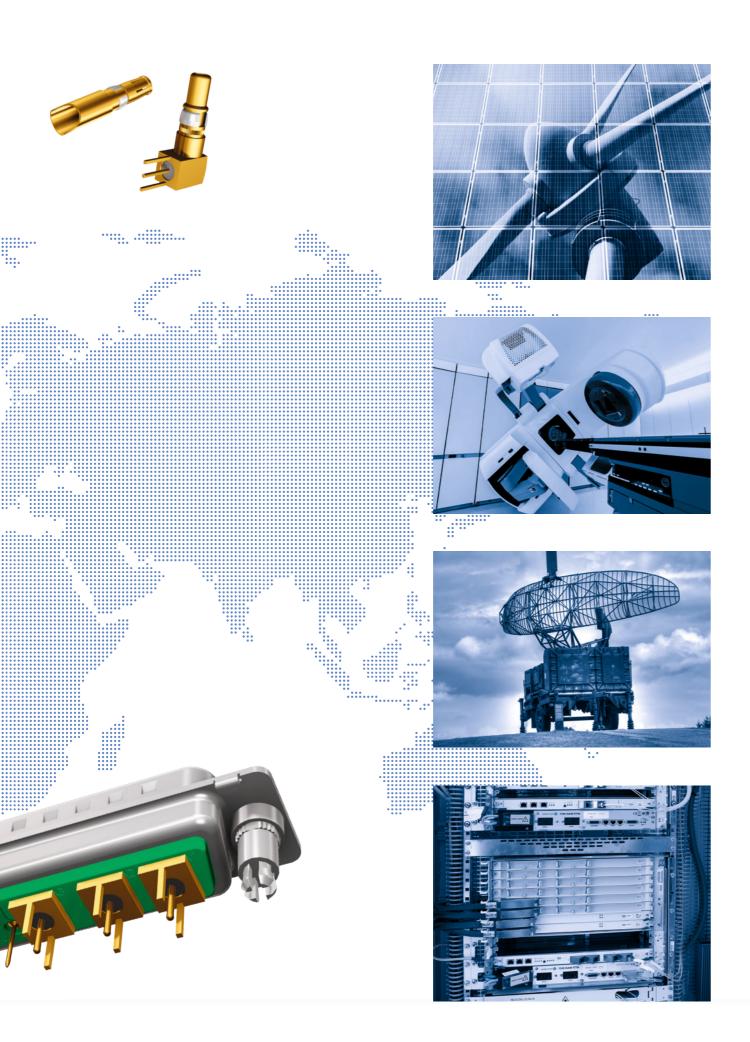
#### Interface adapter, gender changer Plug connector- plug connector





Section 2





#### Part Number Creator

#### Standard 3 003W3 S X X 6 1 A 1 O X Shell type = Steel tin plated = Brass tin plated\* = Stainless steel\* \*on request Shell size and design = 5W1, 2W2C = 3W3, 7W2, 11W1, 3W3C = 5W5, 9W4, 13W3, 17W2, 21W1 = 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2 Empty positions add "0"= 003W3 = 24W7, 36W4, 43W2, 47W1 Contact type = Plug connector = Socket connector Surface/Quality class for SIGNAL contacts = Quality class 3 = 50 mating cycles = Quality class 2 = 200 mating cycles\* = Quality class 1 = 500 mating cycles = 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 = Crimp without contacts Μ = Solder cup = Wire wrap, .500"/12.7 mm N = Press fit = Solder pin, straight, .220"/5.6 mm = Solder pin, angled, .280" (3.18")/7.19 mm U = Solder pin, angled, .370"/9.40 mm = 3W3, 5W5, 8W8, 2W2C, 3W3C Termination for HIGH POWER- or COAXIAL contacts Quality class 3/Quality class 1 Quality class 3/Quality class 1 82/67 = Solder pin, angled 30 A 85/65 = Solder pin, angled 30 A 61/41 = Solder cup 10 A62/42 = Solder cup 20 A 63/43 = Solder cup 30 A G7/76 = 3 Solder pins Straight 50 $\Omega$ 64/44 = Solder cup 40 A G8/86 = 3 Solder pins Straight 75 $\Omega$ 68/48 = Solder pin, straight 20 A, D = .077"/1.95 mm G9/78 = 3 Solder pins angled 50 $\Omega$ H1/79 = 3 Solder pins angled 50 $\Omega$ 69/49 = Solder pin, straight 20 A, D = .102"/2.60 mm 70/50 = Solder pin, straight 20 A, D = .110"/2.85 mm H2/88 = 3 Solder pins angled 75 Ω H3/89 = 3 Solder pins angled 75 $\Omega$ 71/51 = Solder pin, straight 30 A, D = .130"/3.18 mm 72/52 = Solder pin, straight 40 A, D = .150"/3.75 mm H4/80 = 5 Solder pins angled 50 Ω 59/55 = Solder pin, angled 15 A H5/90 = 5 Solder pins angled 75 Ω 73/56 = Solder pin, angled 20 A 91 = Screw termination 20 A 74/57 = Solder pin, angled 30 A /P1 = press fit 30 A 75/58 = Solder pin, angled 40 A /P2 = press fit 30 A 77/60 = Solder pin, angled 40 A /P4 = press fit 30 A81/66 = Solder pin, angled 20 A 99 = no high power, coax or crimp contacts loaded Mounting style A1 = Riveted F6 = 4-40 UNC clip and threaded rear spacer with PCB clip, PCB .126"/3.20 mm A3 = 4-40 UNC threaded insert G2 = Metal bracket, 4-40 UNC threaded insert for .370"/9.40 mm A5 = 4-40 UNC threaded rear spacer G4 = Metal bracket, 4-40 UNC threaded insert and clip for .370"/9.40 mm A8 = Threaded rear spacer for 4-40 UNC press fit H2 = Metal bracket, 4-40 UNC threaded lock for .370"/9.40 mm C2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063"/1.60 mm H4 = Metal bracket, 4-40 UNC threaded lock and clip for .370"/9.40 mm E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063"/1.60 mm N2 = Metal bracket, 4-40 UNC threaded insert for .280"/7.19 mm E4 = 4-40 UNC threaded rear spacer with PCB clip, PCB .091"/2.30 mm N4 = Metal bracket, 4-40 UNC threaded insert and clip for .280"/7.19 mm E6 = 4-40 UNC threaded rear spacer with PCB clip, PCB .126"/3.20 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

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



#### Part Number Creator High Density

#### 3 H19W1 S C M 4 1 A 1 O X Shell type = Steel tin plated = Brass tin plated\* = Shell stainless steel\* \*on request Shell size and design =19W1 =15W4 4 =45W2 H = High Density Contact type = Plug connector S = Socket connector Quality class for SIGNAL contacts = Quality class 3 = 50 mating cycles = Quality class 2 = 200 mating cycles\* = Quality class 1 = 500 mating cycles = Special application = > 500 mating cycles\* \*on request Termination only for SIGNAL contacts = Solder cup = Press-fit\* = 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 Quality class 3/Quality class 1 61/41 = Solder cup 10 A G7/76 = 3 Solder pins Straight 50 $\Omega$ G9/78 = 3 Solder pins angled 50 $\Omega$ H4/80 = 5 Solder pins angled 50 $\Omega$ 62/42 = Solder cup 20 A63/43 = Solder cup 30 A 64/44 = Solder cup 40 A G8/86 = 3 Solder pins Straight 75 $\Omega$ 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 H2/88= 3 Solder pins angled 75 $\Omega$ H5/90= 5 Solder pins angled 75 $\Omega$ 91 = Screw termination 20 A 71/51 = Solder pin, straight 30 A, D = .130"/3.18 mm 72/52 = Solder pin, straight 40 A, D = .150"/3.75 mm Quality class 1 59/55 = Solder pin, angled 15 A P1 = press fit 30 A 73/56 = Solder pin, angled 20 A P2 = press fit 30 A 74/57 = Solder pin, angled 30 A = press fit 30 A 75/58 = Solder pin, angled 40 A 99 = no high power, coax or crimp contacts loaded Mounting style A1 = Riveted F4 = 4-40 UNC clip and threaded rear spacer with PCB clip, PCB .091"/2.30 mm = 4-40 UNC clip and threaded rear spacer with PCB clip, PCB .126"/3.20 mm A3 = 4-40 UNC threaded insert = Metal bracket, 4-40 UNC threaded insert for .350" /7.98 mm A5 = 4-40 UNC threaded rear spacer G6 = Threaded rear spacer for 4-40 UNC press fit G8 = Metal bracket, 4-40 UNC threaded insert and Clip for .350"/7.98 mm E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063"/1.60 mm H6 = Metal bracket, 4-40 UNC threaded lock for .350"/7.98 mm E4 = 4-40 UNC threaded rear spacer with PCB clip, PCB .091"/2.30 mm H8 = Metal bracket, 4-40 UNC threaded lock and Clip for .350"/7.98 mm = 4-40 UNC threaded rear spacer with PCB clip, PCB .126"/3.20 mm E6 W2 = Threaded rear spacer with 4-40 UNC press in pin F2 = 4-40 UNC clip and threaded rear spacer with PCB clip, PCB .063"/1.60 mm

**CONEC** 2 | 35

Downloaded from Arrow.com.

OX = Standard

#### 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	$\geq 2 \times 10^7 \text{ M}\Omega$				
Characteristic impedance		50/75 Ω						
Frequency range		0-2 GHz						
VSWR-value according MIL-C-39012		≤ 1.2 @ 1.2 GHz ≤ 1.3 @ 1.5 GHz ≤ 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 B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles						

 $\label{thm:continuous} \mbox{Technical specifications are subject to change without notice.}$ 



# Product specification High Density

Basic material	Connector with signal contacts	Coaxial contacts	High power contacts	High voltage contacts
Contact		Сорре	er alloy	
Contact plating		Gold over	er 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 bra	ass 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	$\geq 2 \times 10^7 \text{ M}\Omega$
Characteristic impedance		50/75 Ω		
Frequency range		0-2 GHz		
VSWR-value according MIL-C-39012		≤ 1,2 @ 1.2 GHz ≤ 1.3 @ 1.5 GHz ≤ 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 = B = Quality class 2 = C = Quality class 1 =	200 mating cycles	

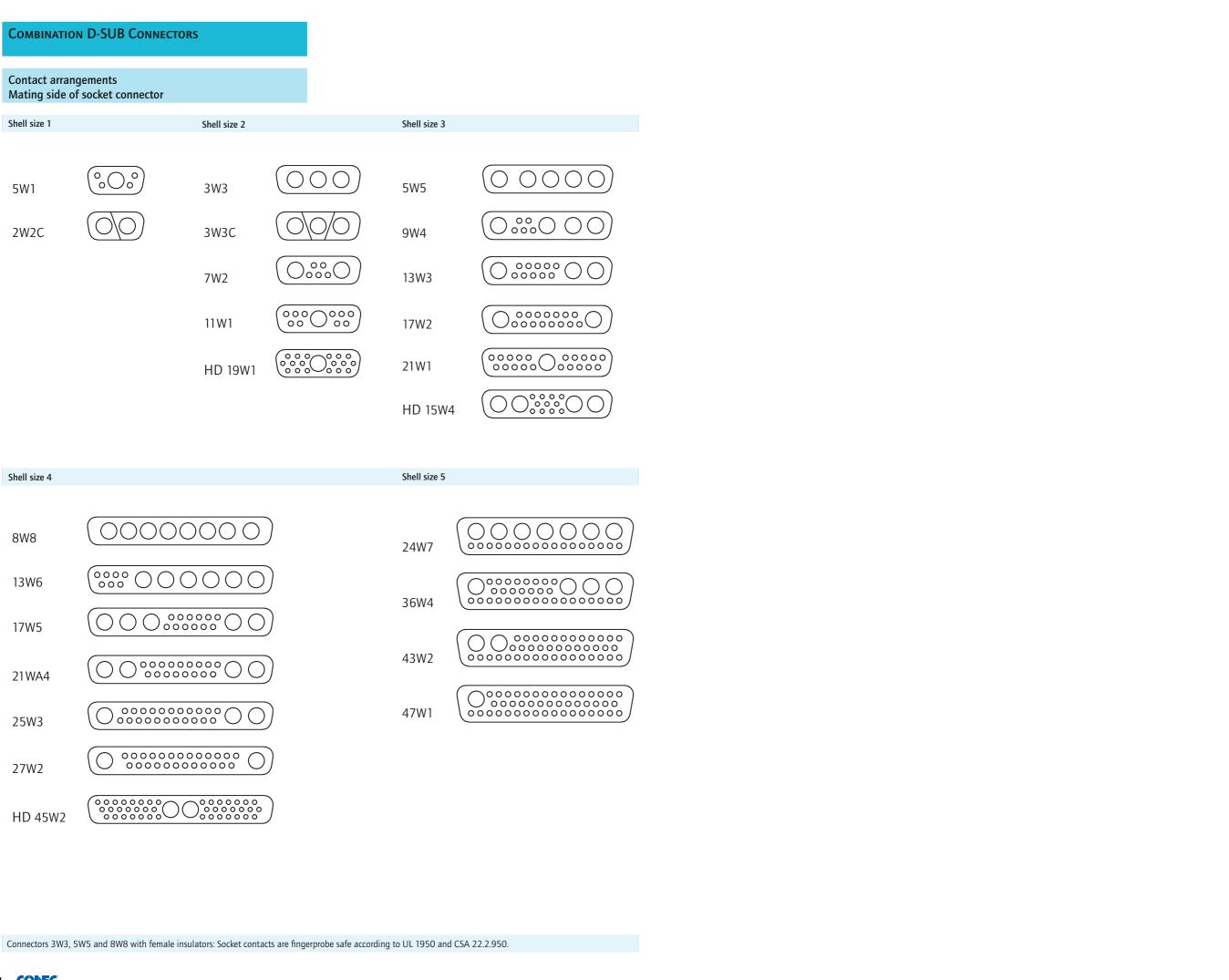
Technical specifications are subject to change without notice.

**CONEC** 2 | 37

# Contact arrangements Mating side of socket connector

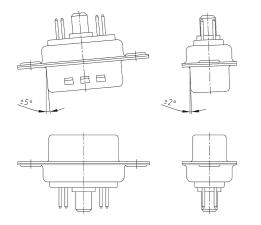
Shell size 1		Shell size 2		Shell size 3	
5W1	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	3W3	$\bigcirc\bigcirc\bigcirc\bigcirc$	5W5	0000
2W2C		3W3C	000	9W4	$\bigcirc \circ \circ \circ \bigcirc \bigcirc \bigcirc \bigcirc$
		7W2	$\bigcirc \circ \circ \circ \bigcirc$	13W3	$\bigcirc$
		11W1		17W2	00000000
		HD 19W1		21W1	00000 00000
				HD 15W4	$ \bigcirc$
Shell size 4				Shell size 5	
8W8	(0000	0000		24W7 (	
13W6	(°°°°) C	0000		26.W4	000000000000000000000000000000000000000
17W5	$\bigcirc\bigcirc\bigcirc$	000000 C		36W4 \	
21WA4	$\bigcirc$	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		43W2 \	000000000000000000000000000000000000000
25W3	000000	000000000000000000000000000000000000000		47W1 (	000000000000000000000000000000000000000
27W2	000000	00000000			
HD 45W2	0000000	) 00000000			



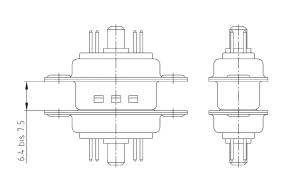


# **Mating conditions**

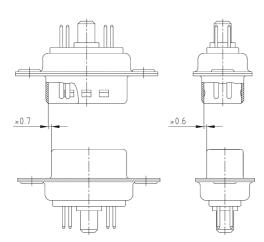
### Max. tilt angle for connector mating



### Range for safe contact

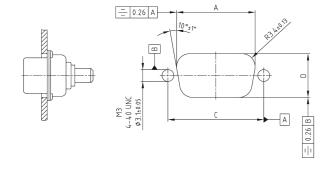


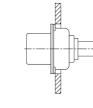
### Lock-in range



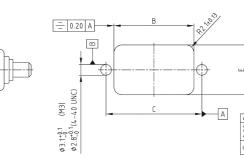
# Panel cut-out

### 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

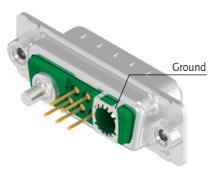
 5
 56.30
 57.00
 61.10
 14.10
 15.80

Technical specifications are subject to change without notice.

### 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-0

Colour: black

Part Number

Hole plug 160X10939X





COMBINATION D-SUB CONNECTOR With signal contacts  Solder cup Precision machined contacts, AWG 20  Through-hole Ø 3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	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  Part No. Socket contact Part No. Pluq contact
		5W1					3005W1SAM99A10X 3005W1PAM99A10X
		7W2					3007W2SAM <b>99</b> A10X 3007W2PAM <b>99</b> A10X
	C THIP	9W4					3009W4SAM <b>99</b> A10X 3009W4PAM <b>99</b> A10X
		11W1					3011W1SAM <b>99</b> A10X 3011W1PAM <b>99</b> A10X
	Ø3	13W3					3013W3SAM <b>99</b> A10X 3013W3PAM <b>99</b> A10X
		13W6					3013W6SAM <b>99</b> A10X 3013W6PAM <b>99</b> A10X
		17W2	)E)	250	E228329		3017W2SAM <b>99</b> A10X 3017W2PAM <b>99</b> A10X
		17W5	7.5 (UL) / 5 (CSA, VDE)			3	3017W5SAM <b>99</b> A10X 3017W5PAM <b>99</b> A10X
		21W1	-) / 5 ((				3021W1SAM <b>99</b> A10X 3021W1PAM <b>99</b> A10X
		24W7	25W3				3024W7SAM <b>99</b> A10X 3024W7PAM <b>99</b> A10X
		25W3					3025W3SAM <b>99</b> A10X 3025W3PAM <b>99</b> A10X
		27W2					3027W2SAM <b>99</b> A10X 3027W2PAM <b>99</b> A10X
		36W4				3036W4SAM <b>99</b> A10X 3036W4PAM <b>99</b> A10X	
							3043W2SAM <b>99</b> A10X 3043W2PAM <b>99</b> A10X
		47W1					3047W1SAM <b>99</b> A10X 3047W1PAM <b>99</b> A10X
		21WA4					321WA4SAM <b>99</b> A10X 321WA4PAM <b>99</b> A10X
4-40 UNC threaded insert							
^		5W1					3005W1SAM <b>99</b> A30X 3005W1PAM <b>99</b> A30X
		7W2					3007W2SAM <b>99</b> A30X 3007W2PAM <b>99</b> A30X
	19 19	9W4					3009W4SAM <b>99</b> A30X 3009W4PAM <b>99</b> A30X
2.55		11W1					3011W1SAM <b>99</b> A30X 3011W1PAM <b>99</b> A30X
-	4-40 UNC	13W3					3013W3SAM <b>99</b> A30X 3013W3PAM <b>99</b> A30X
		13W6					3013W6SAM <b>99</b> A30X 3013W6PAM <b>99</b> A30X
		17W2	(DE)				3017W2SAM <b>99</b> A30X 3017W2PAM <b>99</b> A30X
		17W5	7.5 (UL) / 5 (CSA, VDE)	250	329	2	3017W5SAM <b>99</b> A30X 3017W5PAM <b>99</b> A30X
		21W1	JL) / 5	250	E228329	3	3021W1SAM <b>99</b> A30X 3021W1PAM <b>99</b> A30X
		24W7	7.5 (1				3024W7SAM <b>99</b> A30X 3024W7PAM <b>99</b> A30X
		25W3					3025W3SAM <b>99</b> A30X 3025W3PAM <b>99</b> A30X
		27W2					3027W2SAM <b>99</b> A30X 3027W2PAM <b>99</b> A30X
		36W4					3036W4SAM <b>99</b> A30X 3036W4PAM <b>99</b> A30X
		43W2					3043W2SAM <b>99</b> A30X 3043W2PAM <b>99</b> A30X
		47W1					3047W1SAM <b>99</b> A30X 3047W1PAM <b>99</b> A30X

**CONEC** 2 41



#### COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Quality class $\dot{3}$ (A) = 50 mating cyles With signal contacts & high power contacts 20 A rent rating signal tacts [A] On request: voltage [V] Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder cup M3 thread of poles Precision machined contacts, AWG 20 Working UL-File No. Through-hole Ø 3 mm Part No. Socket contact Part No. Plug contact 5W1 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 7.5 (UL) / 5 (CSA, VDE) 3017W2SAM**62**A10X 3017W2PAM**62**A10X E228329 17W5 3017W5SAM**62**A10X 3017W5PAM**62**A10X 250 21W1 3021W1SAM**62**A10X 3021W1PAM**62**A10X 24W7 3024W7SAM**62**A10X 3024W7PAM**62**A10X 3025W3SAM**62**A10X 3025W3PAM**62**A10X 25W3 27W2 3027W2SAM**62**A10X 3027W2PAM**62**A10X For other Power contacts select code from spread sheet 36W4 3036W4SAM**62**A10X 3036W4PAM**62**A10X Code AWG 43W2 3043W2SAM**62**A10X 3043W2PAM**62**A10X 10 A 16-20 62 12-14 20 A 47W1 3047W1SAM**62**A10X 3047W1PAM**62**A10X 63 10-12 30 A 64 8-10 40 A 21WA4 321WA4SAM**62**A10X 321WA4PAM**62**A10X 4-40 UNC threaded insert 5W1 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 7.5 (UL) / 5 (CSA VDE) 3017W2SAM**62**A30X 3017W2PAM**62**A30X 17W5 3017W5SAM**62**A30X 3017W5PAM**62**A30X 250 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 For other Power contacts select code from spread sheet Code AWG Current rating 43W2 3043W2SAM**62**A30X 3043W2PAM**62**A30X 16-20 10 A 62 12-14 20 A 47W1 3047W1SAM**62**A30X 3047W1PAM**62**A30X 63 10-12 30 A 64 8-10 40 A 21WA4 321WA4SAM**62**A30X 321WA4PAM**62**A30X



COMBINATION D-SUB CONNECTORS With signal contacts & high power contacts 20 A		70				Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles On request:	
Solder pin, straight Precision machined contacts	No. of poles	Current rating signal contacts [A]	Working voltage [V]	Je	Quality class	Brass tin plated or stainless steel     Quality class 1 (C) = 500 mating cy     M3 thread	vcles
Through-hole Ø 3 mm	No. 0	Curre	Work	UL-File	Qual	Part No. Socket contact Part No. Plug	contact
-	5W1					3005W1SAR <b>69</b> A10X 3005W1PAR <b>6</b>	
	7W2					3007W2SAR <b>69</b> A10X 3007W2PAR <b>6</b>	59A10X
\$2°01	9W4					3009W4SAR <b>69</b> A10X 3009W4PAR <b>6</b>	59A10X
5,33	11W1					3011W1SAR <b>69</b> A10X 3011W1PAR	59A10X
Ø3	13W3					3013W3SAR <b>69</b> A10X 3013W3PAR <b>6</b>	59A10X
	13W6		250			3013W6SAR <b>69</b> A10X 3013W6PAR <b>6</b>	59A10X
	17W2			E228329		3017W2SAR <b>69</b> A10X 3017W2PAR <b>6</b>	59A10X
	17W5	7.5 (UL) / 5 (CSA, VDE)			3	3017W5SAR <b>69</b> A10X 3017W5PAR <b>6</b>	59A10X
	21W1	JL) / 5	250			3021W1SAR <b>69</b> A10X 3021W1PAR <b>6</b>	<b>59</b> A10X
	24W7	7.5 (L				3024W7SAR <b>69</b> A10X 3024W7PAR <b>6</b>	<b>59</b> A10X
	25W3	25W3				3025W3SAR <b>69</b> A10X 3025W3PAR <b>6</b>	<b>59</b> A10X
	27W2					3027W2SAR <b>69</b> A10X 3027W2PAR <b>6</b>	<b>59</b> A10X
For other Power contacts select code from spread sheet  Code Current rating Diameter solder pin	36W4					3036W4SAR <b>69</b> A10X 3036W4PAR <b>6</b>	<b>59</b> A10X
68 20 A 1.95 69 20 A 2.60	43W2					3043W2SAR <b>69</b> A10X 3043W2PAR <b>6</b>	<b>59</b> A10X
70 20 A 2.85 71 30 A 3.18	47W1					3047W1SAR <b>69</b> A10X 3047W1PAR <b>6</b>	<b>59</b> A10X
72 40 A 3.75	21WA4					321WA4SAR <b>69</b> A10X 321WA4PAR <b>6</b>	<b>59</b> A10X
4-40 UNC threaded insert							
	5W1					3005W1SAR <b>69</b> A30X 3005W1PAR <b>6</b>	<b>59</b> A30X
	7W2					3007W2SAR <b>69</b> A30X 3007W2PAR <b>6</b>	<b>59</b> A30X
+ m+m	9W4					3009W4SAR <b>69</b> A30X 3009W4PAR <b>6</b>	<b>59</b> A30X
97 4-40 UNC	11W1					3011W1SAR <b>69</b> A30X 3011W1PAR <b>6</b>	<b>59</b> A30X
4-40 UNC	13W3					3013W3SAR <b>69</b> A30X 3013W3PAR <b>6</b>	<b>59</b> A30X
	13W6					3013W6SAR <b>69</b> A30X 3013W6PAR <b>6</b>	<b>59</b> A30X
	17W2	VDE)				3017W2SAR <b>69</b> A30X 3017W2PAR <b>6</b>	<b>59</b> A30X
	17W5	7.5 (UL) / 5 (CSA, VDE)	250	E228329	3	3017W5SAR <b>69</b> A30X 3017W5PAR <b>6</b>	<b>59</b> A30X
	21W1	(IU)		E22		3021W1SAR <b>69</b> A30X 3021W1PAR <b>6</b>	<b>59</b> A30X
	24W7	7.5				3024W7SAR <b>69</b> A30X 3024W7PAR <b>6</b>	<b>59</b> A30X
	25W3					3025W3SAR <b>69</b> A30X 3025W3PAR <b>6</b>	<b>59</b> A30X
For other Power contacts select code from spread sheet	27W2					3027W2SAR <b>69</b> A30X 3027W2PAR <b>6</b>	<b>59</b> A30X
Code Current rating Diameter solder pin	36W4					3036W4SAR <b>69</b> A30X 3036W4PAR <b>6</b>	<b>59</b> A30X
68 20 A 1.95 69 20 A 2.60	43W2					3043W2SAR <b>69</b> A30X 3043W2PAR <b>6</b>	<b>59</b> A30X
70 20 A 2.85 71 30 A 3.18	47W1					3047W1SAR <b>69</b> A30X 3047W1PAR <b>6</b>	<b>59</b> A30X
72 40 A 3.75	21WA4					321WA4SAR <b>69</b> A30X 321WA4PAR <b>6</b>	<b>59</b> A30X



COMBINATION D-SUB CONNECTORS With signal contacts & high power contacts 20 A Solder pin, straight			Current rating signal contacts [A]	Working voltage [V]		S	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) =	tainless steel		
	machined c		poles	t ratii ts [A]	ilov gi		ı clas.	• M3 thread		
4-40 UNC t	threaded rear s	nacer		No. of poles	Curren	Workin	UL-File	Quality class	Part No. Socket contact	Part No. Plua contact
				5W1					3005W1SAR <b>69</b> A50X	3005W1PAR <b>69</b> A50X
				JVVI					3003W13AN <b>03</b> A30A	3003W11AI(03A30A
		<u>+</u>		7W2					3007W2SAR <b>69</b> A50X	3007W2PAR <b>69</b> A50X
9 8 9 4-40 UNC									3009W4SAR <b>69</b> A50X	3009W4PAR <b>69</b> A50X
									3011W1SAR <b>69</b> A50X	3011W1PAR <b>69</b> A50X
									3013W3SAR <b>69</b> A50X	3013W3PAR <b>69</b> A50X
									3013W6SAR <b>69</b> A50X	3013W6PAR <b>69</b> A50X
				17W2	DE)				3017W2SAR <b>69</b> A50X	3017W2PAR <b>69</b> A50X
				17W5	CSA, V		E228329	3	3017W5SAR <b>69</b> A50X	3017W5PAR <b>69</b> A50X
				21W1	7.5 (UL) / 5 (CSA, VDE)	250			3021W1SAR <b>69</b> A50X	3021W1PAR <b>69</b> A50X
				24W7	7.5 (U				3024W7SAR <b>69</b> A50X	3024W7PAR <b>69</b> A50X
				25W3					3025W3SAR <b>69</b> A50X	3025W3PAR <b>69</b> A50X
				27W2					3027W2SAR <b>69</b> A50X	3027W2PAR <b>69</b> A50X
For other Pow	er contacts select coo	le from spread sheet		36W4					3036W4SAR <b>69</b> A50X	3036W4PAR <b>69</b> A50X
Code	Current rating	Diameter solder pin								
68	20 A	1.95 2.60		43W2					3043W2SAR <b>69</b> A50X	3043W2PAR <b>69</b> A50
69 70	20 A 20 A	2.60		47W1					3047W1SAR <b>69</b> A50X	3047W1PAR <b>69</b> A50X
71	30 A	3.18		47 VV I					JU4/WIJANUJAJUA	3047 W I FAN <b>03</b> A30/
72	40 A	3.75		21WA4					321WA4SAR <b>69</b> A50X	321WA4PAR <b>69</b> A50



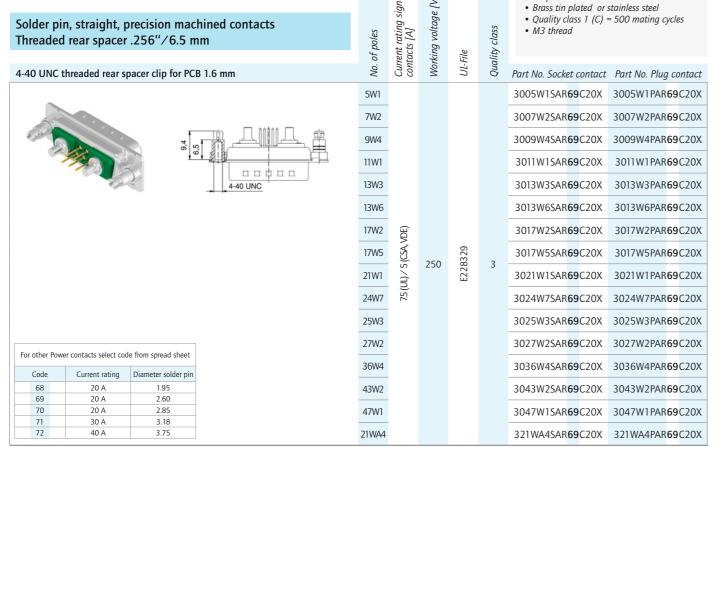
COMBINATION D-SUB CONNECTORS With signal contacts & high power contacts 20 A  Solder pin, straight, precision machined contacts Threaded rear spacer .291"/7.4 mm		Current rating signal contacts [A]	Working voltage [V]	le	Quality class	Shell: Steel tin plated Quality class 3 (A) = 50 On request:  • Brass tin plated or si  • Quality class 1 (C) =  • M3 thread	tainless steel
4-40 UNC threaded rear spacer clip for PCB 1.6 mm	No. 0	Curre		UL-File	Quali	Part No. Socket contact	Part No. Plua contact
	5W1						3005W1PAR <b>69</b> E20X
	7W2					3007W2SAR <b>69</b> E20X	3007W2PAR <b>69</b> E20X
74 74 74 74 74 74 74 74 74 74 74 74 74 7	9W4					3009W4SAR <b>69</b> E20X	3009W4PAR <b>69</b> E20X
801 4-40 UNC	11W1					3011W1SAR <b>69</b> E20X	3011W1PAR <b>69</b> E20X
4-40 UNC	13W3					3013W3SAR <b>69</b> E20X	3013W3PAR <b>69</b> E20X
	13W6					3013W6SAR <b>69</b> E20X	3013W6PAR <b>69</b> E20X
	17W2	ДЕ)			3	3017W2SAR <b>69</b> E20X	3017W2PAR <b>69</b> E20X
	17W5	(CSA, V	250	329		3017W5SAR <b>69</b> E20X	3017W5PAR <b>69</b> E20X
	21W1	7.5 (UL) / 5 (CSA, VDE)	250	E228329		3021W1SAR <b>69</b> E20X	3021W1PAR <b>69</b> E20X
	24W7	7.5 (1				3024W7SAR <b>69</b> E20X	3024W7PAR <b>69</b> E20X
	25W3					3025W3SAR <b>69</b> E20X	3025W3PAR <b>69</b> E20X
	27W2				3027W2SAR <b>69</b> E20X	3027W2PAR <b>69</b> E20X	
For other Power contacts select code from spread sheet  Code Current rating Diameter solder pin	36W4	- 1				3036W4SAR <b>69</b> E20X	3036W4PAR <b>69</b> E20X
68 20 A 1.95 69 20 A 2.60	43W2					3043W2SAR <b>69</b> E20X	3043W2PAR <b>69</b> E20X
70 20 A 2.85 71 30 A 3.18	47W1					3047W1SAR <b>69</b> E20X	3047W1PAR <b>69</b> E20X
72 40 A 3.75	21WA4					321WA4SAR <b>69</b> E20X	321WA4PAR <b>69</b> E20X
4-40 UNC threaded rear spacer clip for PCB 2.3 mm							
	5W1					3005W1SAR <b>69</b> E40X	3005W1PAR <b>69</b> E40X
Aib andon Aib	7W2	12				3007W2SAR <b>69</b> E40X	3007W2PAR <b>69</b> E40X
	9W4					3009W4SAR <b>69</b> E40X	3009W4PAR <b>69</b> E40X
	11W1					3011W1SAR <b>69</b> E40X	3011W1PAR <b>69</b> E40X
4-40 UNC	13W3					3013W3SAR <b>69</b> E40X	3013W3PAR <b>69</b> E40X
	13W6					3013W6SAR <b>69</b> E40X	3013W6PAR <b>69</b> E40X
	17W2	VDE)				3017W2SAR <b>69</b> E40X	3017W2PAR <b>69</b> E40X
	17W5	7.5 (UL) / 5 (CSA, VDE)	250	E228329	3	3017W5SAR <b>69</b> E40X	3017W5PAR <b>69</b> E40X
	21W1	(TD)	230	E228	J	3021W1SAR <b>69</b> E40X	3021W1PAR <b>69</b> E40X
	24W7	7.5 (				3024W7SAR <b>69</b> E40X	3024W7PAR <b>69</b> E40X
	25W3					3025W3SAR <b>69</b> E40X	3025W3PAR <b>69</b> E40X
	27W2				3027W2SAR <b>69</b> E40X	3027W2PAR <b>69</b> E40X	
	27W2						
For other Power contacts select code from spread sheet	27W2 36W4					3036W4SAR <b>69</b> E40X	3036W4PAR <b>69</b> E40X
For other Power contacts select code from spread sheet  Code Current rating Diameter solder pin							3036W4PAR <b>69</b> E40X 3043W2PAR <b>69</b> E40X
·	36W4					3043W2SAR <b>69</b> E40X	

#### **COMBINATION D-SUB CONNECTORS** Shell: Steel tin plated Quality class $\dot{3}$ (A) = 50 mating cyles With signal contacts & high power contacts 20 A rrent rating signal ntacts [A] On request: voltage [V] Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, straight, precision machined contacts M3 thread of poles Threaded rear spacer .291"/7.4 mm Working UL-File Part No. Socket contact Part No. Plug contact Мо. 4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm 5W1 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 4-40 UNC 13W3 3013W3SAR**69**F20X 3013W3PAR**69**F20X 13W6 3013W6SAR**69**F20X 3013W6PAR**69**F20X 17W2 7.5 (UL) / 5 (CSA, VDE) 3017W2SAR**69**F20X 3017W2PAR**69**F20X E228329 17W5 3017W5SAR**69**F20X 3017W5PAR**69**F20X 250 21W1 3021W1SAR**69**F20X 3021W1PAR**69**F20X 24W7 3024W7SAR**69**F20X 3024W7PAR**69**F20X 3025W3SAR**69**F20X 3025W3PAR**69**F20X 25W3 27W2 3027W2SAR**69**F20X 3027W2PAR**69**F20X For other Power contacts select code from spread sheet 36W4 3036W4SAR**69**F20X 3036W4PAR**69**F20X Code Current rating Diameter solder pin 68 20 A 1.95 43W2 3043W2SAR**69**F20X 3043W2PAR**69**F20X 20 A 2.60 69 70 20 A 2.85 47W1 3047W1SAR**69**F20X 3047W1PAR**69**F20X 30 A 3.18 72 40 A 3.75 21WA4 321WA4SAR**69**F20X 321WA4PAR**69**F20X 4-40 UNC front, threaded rear spacer clip for PCB 2.3 mm 5W1 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 4-40 UNC 13W3 3013W3SAR**69**F40X 3013W3PAR**69**F40X 13W6 3013W6SAR**69**F40X 3013W6PAR**69**F40X 17W2 7.5 (UL) / 5 (CSA, VDE) 3017W2SAR**69**F40X 3017W2PAR**69**F40X E228329 17W5 3017W5SAR**69**F40X 3017W5PAR**69**F40X 250 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 For other Power contacts select code from spread sheet 43W2 3043W2SAR**69**F40X 3043W2PAR**69**F40X Current rating Diameter solder pin Code 69 20 A 47W1 3047W1SAR**69**F40X 3047W1PAR**69**F40X 30 A 3,18 72 3,75 21WA4 321WA4SAR**69**F40X 321WA4PAR**69**F40X



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	No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	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. 0	Curre				Part No. Socket contact Part No. Plug contact	
The other amended rear spaces cap for the mini	5W1					3005W1SAR <b>69</b> C20X 3005W1PAR <b>69</b> C20X	
5 040 5	7W2					3007W2SAR <b>69</b> C20X 3007W2PAR <b>69</b> C20X	
2 6	9W4					3009W4SAR <b>69</b> C20X 3009W4PAR <b>69</b> C20X	
101	11W1					3011W1SAR <b>69</b> C20X 3011W1PAR <b>69</b> C20X	
4-40 UNC	13W3					3013W3SAR <b>69</b> C20X 3013W3PAR <b>69</b> C20X	
	13W6					3013W6SAR <b>69</b> C20X 3013W6PAR <b>69</b> C20X	
	17W2	Œ)				3017W2SAR <b>69</b> C20X 3017W2PAR <b>69</b> C20X	
	17W5	(CSA, V		E228329		3017W5SAR <b>69</b> C20X 3017W5PAR <b>69</b> C20X	
	21W1	7.5 (UL) / 5 (CSA, VDE)	250		3	3021W1SAR <b>69</b> C20X 3021W1PAR <b>69</b> C20X	
	24W7	7.5 (L				3024W7SAR <b>69</b> C20X 3024W7PAR <b>69</b> C20X	
	25W3					3025W3SAR <b>69</b> C20X 3025W3PAR <b>69</b> C20X	
	27W2					3027W2SAR <b>69</b> C20X 3027W2PAR <b>69</b> C20X	
For other Power contacts select code from spread sheet  Code Current rating Diameter solder pin	36W4					3036W4SAR <b>69</b> C20X 3036W4PAR <b>69</b> C20X	
68 20 A 1.95	43W2					3043W2SAR <b>69</b> C20X 3043W2PAR <b>69</b> C20X	
69 20 A 2.60							
70 20 A 2.85 71 30 A 3.18	47W1					3047W1SAR <b>69</b> C20X 3047W1PAR <b>69</b> C20X	
72 40 A 3.75	21WA4					321WA4SAR <b>69</b> C20X 321WA4PAR <b>69</b> C20X	

**CONEC** 2 | 47 Downloaded from Arrow.com.



#### **COMBINATION D-SUB CONNECTORS** Shell: Steel tin plated Quality class $\dot{3}$ (A) = 50 mating cyles With signal contacts & coaxial contacts 50 Ω rrent rating signal ntacts [A] On request: voltage [V] Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, straight No. of poles • M3 thread **Precision machined contacts** Working UL-File Through-hole Ø 3 mm Part No. Socket contact Part No. Plug contact 5W1 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 7.5 (UL) / 5 (CSA, VDE) E228329 17W5 3017W5SAR**76**A10X 3017W5PAR**76**A10X 250 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 For other coaxial contacts select code from spread sheet 43W2 3043W2SAR**76**A10X 3043W2PAR**76**A10X 47W1 3047W1SAR**76**A10X 3047W1PAR**76**A10X 86 75 Ω 21WA4 321WA4SAR**76**A10X 321WA4PAR**76**A10X 4-40 UNC threaded insert 5W1 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 4-40 UNC 13W3 3013W3SAR**76**A30X 3013W3PAR**76**A30X 13W6 3013W6SAR**76**A30X 3013W6PAR**76**A30X 17W2 7.5 (UL) / 5 (CSA, VDE) 3017W2SAR**76**A30X 3017W2PAR**76**A30X E228329 17W5 3017W5SAR**76**A30X 3017W5PAR**76**A30X 250 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 For other coaxial contacts select code from spread sheet 43W2 3043W2SAR**76**A30X 3043W2PAR**76**A30X Code Impedance 47W1 3047W1SAR**76**A30X 3047W1PAR**76**A30X 86 75 Ω 21WA4 321WA4SAR**76**A30X 321WA4PAR**76**A30X



COMBINATION D-SUB CONNECTORS With signal contacts & coaxial contacts 50 Ω  Solder pin, straight Precision machined contacts	No. of poles	Current rating signal contacts [A]	Morking voltage [V]	UL-File	Ouality class	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
1-40 UNC threaded rear spacer	No.	Curr	Worl			Part No. Socket contact Part No. Plug contact
	5W1					3005W1SAR <b>76</b> A50X 3005W1PAR <b>76</b> A50X
	7W2					3007W2SAR <b>76</b> A50X 3007W2PAR <b>76</b> A50X
3.55	9W4					3009W4SAR <b>76</b> A50X 3009W4PAR <b>76</b> A50X
8   1	11W1					3011W1SAR <b>76</b> A50X 3011W1PAR <b>76</b> A50X
4-40 UNC	13W3					3013W3SAR <b>76</b> A50X 3013W3PAR <b>76</b> A50X
	13W6					3013W6SAR <b>76</b> A50X 3013W6PAR <b>76</b> A50X
	17W2	<u>DE</u> )				3017W2SAR <b>76</b> A50X 3017W2PAR <b>76</b> A50X
	17W5	7.5 (UL) / 5 (CSA, VDE)		329		3017W5SAR <b>76</b> A50X 3017W5PAR <b>76</b> A50X
	21W1	L) / 5 (	250	E228329	3	3021W1SAR <b>76</b> A50X 3021W1PAR <b>76</b> A50X
	24W7	7.5 (U				3024W7SAR <b>76</b> A50X 3024W7PAR <b>76</b> A50X
	25W3					3025W3SAR <b>76</b> A50X 3025W3PAR <b>76</b> A50X
	27W2					3027W2SAR <b>76</b> A50X 3027W2PAR <b>76</b> A50X
	36W4					3036W4SAR <b>76</b> A50X 3036W4PAR <b>76</b> A50X
For other coaxial contacts select code from spread sheet	elect code from spread sheet 43W2				3043W2SAR <b>76</b> A50X 3043W2PAR <b>76</b> A50X	
Code Impedance	47W1					3047W1SAR <b>76</b> A50X 3047W1PAR <b>76</b> A50X
76 50 Ω 86 75 Ω	21WA4					321WA4SAR <b>76</b> A50X 321WA4PAR <b>76</b> A50X



#### **COMBINATION D-SUB CONNECTORS** Shell: Steel tin plated Quality class $\dot{3}$ (A) = 50 mating cyles With signal contacts & coaxial contacts 50 Ω rrent rating signal ntacts [A] On request: voltage [V] Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, straight, precision machined contacts of poles M3 thread Threaded rear spacer .291"/7.4 mm Working UL-File No. 4-40 UNC threaded rear spacer clip for PCB 1.6 mm Part No. Socket contact Part No. Plug contact 5W1 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 4-40 UNC 13W3 3013W3SAR**76**E20X 3013W3PAR**76**E20X 13W6 3013W6SAR**76**E20X 3013W6PAR**76**E20X 17W2 3017W2SAR**76**E20X 3017W2PAR**76**E20X 7.5 (UL) / 5 (CSA, VDE) E228329 17W5 3017W5SAR**76**E20X 3017W5PAR**76**E20X 250 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 For other coaxial contacts select code from spread sheet 43W2 3043W2SAR**76**E20X 3043W2PAR**76**E20X 47W1 3047W1SAR**76**E20X 3047W1PAR**76**E20X 86 75 Ω 21WA4 321WA4SAR**76**E20X 321WA4PAR**76**E20X 4-40 UNC threaded rear spacer clip for PCB 2.3 mm 5W1 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 4-40 UNC 13W3 3013W3SAR**76**E40X 3013W3PAR**76**E40X 13W6 3013W6SAR**76**E40X 3013W6PAR**76**E40X 17W2 7.5 (UL) / 5 (CSA, VDE) 3017W2SAR**76**E40X 3017W2PAR**76**E40X E228329 17W5 3017W5SAR**76**E40X 3017W5PAR**76**E40X 250 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 For other coaxial contacts select code from spread sheet 43W2 3043W2SAR**76**E40X 3043W2PAR**76**E40X Code Impedance 47W1 3047W1SAR**76**E40X 3047W1PAR**76**E40X 86 75 Ω 21WA4 321WA4SAR**76**E40X 321WA4PAR**76**E40X



#### **COMBINATION D-SUB CONNECTORS** Shell: Steel tin plated Quality class $\dot{3}$ (A) = 50 mating cyles With signal contacts & coaxial contacts 50 Ω rrent rating signal ntacts [A] On request: voltage [V] Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, straight, precision machined contacts M3 thread of poles Threaded rear spacer .291"/7.4 mm Working UL-File Part No. Socket contact Part No. Plug contact Мо. 4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm 5W1 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 4-40 UNC 13W3 3013W3SAR**76**F20X 3013W3PAR**76**F20X 13W6 3013W6SAR**76**F20X 3013W6PAR**76**F20X 17W2 3017W2SAR**76**F20X 3017W2PAR**76**F20X 7.5 (UL) / 5 (CSA, VDE) E228329 17W5 3017W5SAR**76**F20X 3017W5PAR**76**F20X 250 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 3036W4SAR**76**F20X 3036W4PAR**76**F20X 36W4 For other coaxial contacts select code from spread sheet 43W2 3043W2SAR**76**F20X 3043W2PAR**76**F20X 47W1 3047W1SAR**76**F20X 3047W1PAR**76**F20X 86 75 Ω 21WA4 321WA4SAR**76**F20X 321WA4PAR**76**F20X 4-40 UNC front, threaded rear spacer clip for PCB 2.3 mm 5W1 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 4-40 UNC 13W3 3013W3SAR**76**F40X 3013W3PAR**76**F40X 13W6 3013W6SAR**76**F40X 3013W6PAR**76**F40X 17W2 7.5 (UL) / 5 (CSA, VDE) 3017W2SAR**76**F40X 3017W2PAR**76**F40X 17W5 3017W5SAR**76**F40X 3017W5PAR**76**F40X 250 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 For other coaxial contacts select code from spread sheet 43W2 3043W2SAR**76**F40X 3043W2PAR**76**F40X Code Impedance 47W1 3047W1SAR**76**F40X 3047W1PAR**76**F40X 86 75 Ω 21WA4 321WA4SAR**76**F40X 321WA4PAR**76**F40X

**CONEC** 2 51

### COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Quality class 3'(A) = 50 mating cyles With signal contacts & coaxial contacts 50 $\Omega$ On request: voltage [V] Current rating signal contacts [A] • Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, straight, precision machined contacts No. of poles • M3 thread Threaded rear spacer .256"/6.5 mm Working UL-File 4-40 UNC threaded rear spacer clip for PCB 1.6 mm Part No. Socket contact Part No. Plug contact 5W1 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 4-40 UNC 13W3 3013W3SAR**76**C20X 3013W3PAR**76**C20X 13W6 3013W6SAR**76**C20X 3013W6PAR**76**C20X 17W2 3017W2SAR**76**C20X 3017W2PAR**76**C20X 7.5 (UL) / 5 (CSA, VDE) E228329 17W5 3017W5SAR**76**C20X 3017W5PAR**76**C20X 250 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 For other coaxial contacts select code from spread sheet 43W2 3043W2SAR**76**C20X 3043W2PAR**76**C20X 47W1 3047W1SAR**76**C20X 3047W1PAR**76**C20X 75 Ω 21WA4 321WA4SAR**76**C20X 321WA4PAR**76**C20X

	2100-41					321WA43AN70C20X 321WA4FAN70C20X
COMBINATION D-SUB CONNECTORS With signal contacts & high power contacts 30 A  Press-fit, straight Precision machined contacts	No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	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 rear press-fit spacer	No. 01	Curren				Part No. Socket contact Part No. Plug contact
	5W1					3005W1SAP <b>P1</b> W20X 3005W1PAP <b>P1</b> W20X
THE OF ARRIVE OF THE	7W2					3007W2SAP <b>P1</b> W20X 3007W2PAP <b>P1</b> W20X
901 V 4-40 UNC	9W4	4				3009W4SAP <b>P1</b> W20X 3009W4PAP <b>P1</b> W20X
	11W1					3011W1SAP <b>P1</b> W20X 3011W1PAP <b>P1</b> W20X
4-40 UNC	13W3					3013W3SAP <b>P1</b> W20X 3013W3PAP <b>P1</b> W20X
	13W6					3013W6SAP <b>P1</b> W20X 3013W6PAP <b>P1</b> W20X
	17W2	, VDE)				3017W2SAP <b>P1</b> W20X 3017W2PAP <b>P1</b> W20X
	17W5	CSA	250	E228329	3	3017W5SAP <b>P1</b> W20X 3017W5PAP <b>P1</b> W20X
	21W1	7.5 (UL) / 5 (CSA, VDE)	230	E22	3	3021W1SAP <b>P1</b> W20X 3021W1PAP <b>P1</b> W20X
	24W7	7.5 (1				3024W7SAP <b>P1</b> W20X 3024W7PAP <b>P1</b> W20X
	25W3					3025W3SAP <b>P1</b> W20X 3025W3PAP <b>P1</b> W20X
	27W2					3027W2SAP <b>P1</b> W20X 3027W2PAP <b>P1</b> W20X
	36W4					3036W4SAPP1W20X 3036W4PAPP1W20X
For other Power contacts select code from spread sheet	43W2					3043W2SAP <b>P1</b> W20X 3043W2PAP <b>P1</b> W20X
Code Current rating Hole diameter PCB						
P1 30 A 3.11 P2 30 A 3.25	47W1					3047W1SAP <b>P1</b> W20X 3047W1PAP <b>P1</b> W20X
P4 30 A 3.20	21WA4					321WA4SAP <b>P1</b> W20X 321WA4PAP <b>P1</b> W20X



### COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles With signal contacts & high power contacts 20 A On request: Current rating signal contacts [A] Working voltage [V] Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, angled, 3.18"/7.19 mm Quality class No. of poles • M3 thread Precision machined contacts, metal bracket UL-File 4-40 UNC threaded insert Part No. Socket contact 5W1 3005W1SAT**73**N20X 7W2 3007W2SAT**73**N20X 9W4 3009W4SAT**73**N20X 11W1 3011W1SAT**73**N20X 4-40 UNC 13W3 3013W3SAT**73**N20X 13W6 3013W6SAT**73**N20X 17W2 3017W2SAT**73**N20X 7.5 (UL) / 5 (CSA, VDE) 17W5 3017W5SAT**73**N20X 250 21W1 3021W1SAT**73**N20X 24W7 3024W7SAT**81** N20X 3025W3SAT**73**N20X 25W3 For other Power contacts select code from spread sheet Code Shellsize Diameter solder pin 27W2 3027W2SAT**73**N20X Current rating 59 73 36W4 3036W4SAT**81** N20X 30 A 3.20 3043W2SAT**81** N20X 75 81 1-4 40 A 3.75 43W2 47W1 3047W1SAT**81**N20X 82 30 A 3.20 30 A 3.20 85 77 3.75 21WA4 321WA4SAT**73**N20X Clip for PCB 1.6 mm, 4-40 UNC threaded insert 5W1 3005W1SAT**73**N40X

					7W2					3007W2SAT <b>7</b> 3	3N40X	
0				11,3	9W4					3009W4SAT <b>7</b> 3	3N40X	
		3			11W1					3011W1SAT <b>7</b> 3	3 N40X	
		31	4-40 UNC		13W3					3013W3SAT <b>7</b> 3	3N40X	
			3,3 6,35		13W6					3013W6SAT <b>7</b> 3	3N40X	
	(8)		5,5 6,35		17W2	Œ)				3017W2SAT <b>7</b> 3	3N40X	
					17W5	7.5 (UL) / 5 (CSA, VDE)		59		3017W5SAT <b>7</b> 3	3 N40X	-
					21W1	/5(0	250	E228329	3	3021W1SAT <b>7</b> 3		-
						5 (UL)		ш				$\dashv$
					24W7	7				3024W7SAT <b>8</b>	I N40X	_
For	other Power contacts	select code from spi	read sheet		25W3					3025W3SAT <b>7</b> 3	3N40X	
Code	Shellsize	Current rating	Diameter solder pin		27W2					3027W2SAT <b>7</b> :	3N40X	
59	1-4	15 A	1.90									$\dashv$
73	1-4	20 A	2.85		36W4					3036W4SAT <b>8</b>	1 N40X	
74 75	1-4	30 A 40 A	3.20 3.75		43W2					3043W2SAT <b>8</b>	1 N40X	
81	5	20 A	2.85		45442					3043W23A1 <b>0</b>	TIVTOX	_
82	5	30 A	3.20		47W1					3047W1SAT <b>8</b>	1 N40X	
85	5	30 A	3.20									-
77	5	40 A	3.75		21WA4					321WA4SAT <b>7</b> :	3N40X	
					21WA4					321WA4SAT <b>7</b> :	3 N40X	_
											CONEC	2
nloaded from Arro	w.com.											

#### **COMBINATION D-SUB CONNECTORS** Shell: Steel tin plated Quality class $\dot{3}$ (A) = 50 mating cyles With signal contacts & coaxial contacts 50 Ω Current rating signal contacts [A] On request: voltage [V] Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, angled, 3.18"/7.19 mm • M3 thread No. of poles Precision machined contacts, metal bracket Working Quality o UL-File 4-40 UNC threaded insert Part No. Socket contact 5W1 3005W1SAT**78**N20X 7W2 3007W2SAT**78**N20X 9W4 3009W4SAT**78**N20X 11W1 3011W1SAT**78**N20X 4-40 UNC 13W3 3013W3SAT**78**N20X 13W6 3013W6SAT**78**N20X 17W2 3017W2SAT**78**N20X 7.5 (UL) / 5 (CSA, VDE) 17W5 3017W5SAT**78**N20X 250 21W1 3021W1SAT**78**N20X 24W7 3024W7SAT**79**N20X 3025W3SAT**78**N20X 25W3 27W2 3027W2SAT**78**N20X 36W4 3036W4SAT**79**N20X For other coaxial contacts select code from spread sheet Code Impedance Shellsize 43W2 3043W2SAT**79**N20X 50 Ω 47W1 3047W1SAT**79**N20X 79 50 Ω 75 Ω 89 75 Ω 21WA4 321WA4SAT**78**N20X Clip for PCB 1.6 mm, 4-40 UNC threaded insert 5W1 3005W1SAT**78**N40X 7W2 3007W2SAT**78**N40X 9W4 3009W4SAT**78**N40X 11W1 3011W1SAT**78**N40X 4-40 UNC 3013W3SAT**78**N40X 13W3 13W6 3013W6SAT**78**N40X 17W2 3017W2SAT**78**N40X 7.5 (UL) / 5 (CSA, VDE) E228329 17W5 3017W5SAT**78**N40X 250 21W1 3021W1SAT**78**N40X 24W7 3024W7SAT**79**N40X 25W3 3025W3SAT**78**N40X 27W2 3027W2SAT**78**N40X 36W4 3036W4SAT**79**N40X For other coaxial contacts select code from spread sheet

43W2

47W1

21WA4

3043W2SAT**79**N40X

3047W1SAT**79**N40X

321WA4SAT**78**N40X



Code

89

Impedance

50 Ω

50 Ω 75 Ω

75 Ω

Shellsize

1-4

1-4

#### COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles With signal contacts & high power contacts 20 A On request: Current rating signal contacts [A] voltage [V] Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, angled, 3.70"/9.4 mm • M3 thread No. of poles Precision machined contacts, metal bracket Working Quality o UL-File 4-40 UNC threaded insert Part No. Socket contact 5W1 3005W1SAU**73**G20X 7W2 3007W2SAU**73**G20X 9W4 3009W4SAU**73**G20X 11W1 3011W1SAU**73**G20X 4-40 UNC 13W3 3013W3SAU**73**G20X 13W6 3013W6SAU**73**G20X 17W2 3017W2SAU**73**G20X 7.5 (UL) / 5 (CSA, VDE) 17W5 3017W5SAU**73**G20X 250 21W1 3021W1SAU**73**G20X 24W7 3024W7SAU**81**G20X 3025W3SAU**73**G20X 25W3 For other Power contacts select code from spread sheet Code Shellsize Current rating 27W2 3027W2SAU**73**G20X Diameter solder pin 36W4 3036W4SAU**81**G20X 73 30 A 3.20 75 1-4 40 A 3.75 43W2 3043W2SAU**81**G20X 47W1 3047W1SAU**81**G20X 82 30 A 3.20 3.20 30 A 85 77 3.75 21WA4 321WA4SAU**73**G20X Clip for PCB 1.6 mm, 4-40 UNC threaded insert 5W1 3005W1SAU**73**G40X 7W2 3007W2SAU**73**G40X 9W4 3009W4SAU**73**G40X 11W1 3011W1SAU**73**G40X 4-40 UNC 3013W3SAU**73**G40X 13W3 13W6 3013W6SAU**73**G40X 17W2 3017W2SAU**73**G40X E228329 17W5 3017W5SAU**73**G40X 250 3 21W1 3021W1SAU**73**G40X 24W7 3024W7SAU**81**G40X 25W3 3025W3SAU**73**G40X For other Power contacts select code from spread sheet Code Shellsize Current rating Diameter solder pin 27W2 3027W2SAU**73**G40X 15 A 1.90 36W4 3036W4SAU**81**G40X 73 1-4 20 A 2.85 30 A 3.20 75 3.75 43W2 3043W2SAU**81** G40X 1-4 40 A 2.85 3.20 81 82 20 A 47W1 3047W1SAU**81**G40X 30 A 30 A 3.20 21WA4 321WA4SAU**73**G40X 3.75 77 40 A

	CONEC	2   55
Downloaded from Arrow.com.		

#### **COMBINATION D-SUB CONNECTORS** Shell: Steel tin plated Quality class $\dot{3}$ (A) = 50 mating cyles With signal contacts & coaxial contacts 50 Ω Current rating signal contacts [A] On request: voltage [V] Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, angled, 3.70"/9.4 mm • M3 thread No. of poles Precision machined contacts, metal bracket Working Quality UL-File 4-40 UNC threaded insert Part No. Socket contact 5W1 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 7.5 (UL) / 5 (CSA, VDE) 17W5 3017W5SAU**78**G20X 250 21W1 3021W1SAU**78**G20X 24W7 3024W7SAU**79**G20X 25W3 3025W3SAU**78**G20X 27W2 3027W2SAU**78**G20X 36W4 3036W4SAU**79**G20X For other coaxial contacts select code from spread sheet Code Impedance Shellsize 43W2 3043W2SAU**79**G20X 50 Ω 47W1 79 50 Ω 3047W1SAU**79**G20X 75 Ω 89 75 Ω 21WA4 321WA4SAU**78**G20X Clip for PCB 1.6 mm, 4-40 UNC threaded insert 5W1 3005W1SAU**78**G40X 7W2 3007W2SAU**78**G40X 9W4 3009W4SAU**78**G40X 11W1 3011W1SAU**78**G40X 3013W3SAU**78**G40X 13W3 4-40 UNC 13W6 3013W6SAU**78**G40X 17W2 3017W2SAU**78**G40X E228329 17W5 3017W5SAU**78**G40X 250 21W1 3021W1SAU**78**G40X 24W7 3024W7SAU**79**G40X 25W3 3025W3SAU**78**G40X 27W2 3027W2SAU**78**G40X 36W4 3036W4SAU**79**G40X For other coaxial contacts select code from spread sheet Code Impedance Shellsize 43W2 3043W2SAU**79**G40X 50 Ω 1-4 47W1 3047W1SAU**79**G40X 50 Ω 75 Ω 1-4 21WA4 321WA4SAU**78**G40X 89 75 Ω



	COMBINATION D-SUB CONNECTORS HIGH DENSITY With signal contacts & high power contacts 20 A				nal	M		Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles On request:		
Solder cup Precision machined contacts, AWG 22			No. of poles	Current rating signal contacts [A]	Morking voltage [V]	Quality class	<ul> <li>Brass tin plated or stainless steel</li> <li>Quality class 1 (C) = 500 mating cycles</li> <li>M3 thread</li> </ul>			
Through-hole Ø	Ø 3 mm			No.	Curre	Work	Qua	Part No. Socket contact Part No. Plug contact		
				15W4				3H15W4SAM <b>62</b> A10X 3H15W4PAM <b>62</b> A10X		
			Ø3	19W1	3 (UL, VDE) / 2.5 (CSA)	60	3	3H19W1SAM <b>62</b> A10X 3H19W1PAM <b>62</b> A10X		
Code 61 62 63 64	AWG 16-20 12-14 10-12 8-10	Current rating 10 A 20 A 30 A 40 A		45W2				3H45W2SAM <b>62</b> A10X 3H45W2PAM <b>62</b> A10X		
4-40 UNC threa	aded insert									
				15W4				3H15W4SAM <b>62</b> A30X 3H15W4PAM <b>62</b> A30X		
			4-40 UNC	19W1	3 (UL, VDE) / 2.5 (CSA)	60	3	3H19W1SAM <b>62</b> A30X 3H19W1PAM <b>62</b> A30X		
Code 61 62 63 64	AWG 16-20 12-14 10-12 8-10	Current rating 10 A 20 A 30 A 40 A		45W2				3H45W2SAM <b>62</b> A30X 3H45W2PAM <b>62</b> A30X		

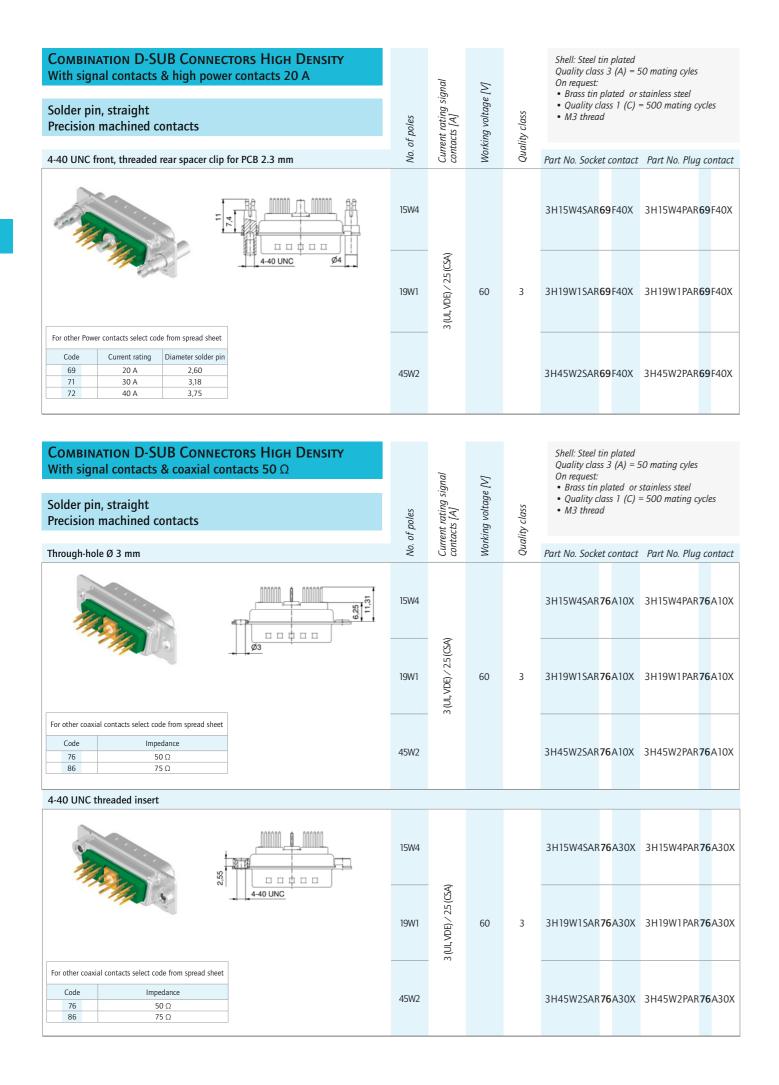


### **COMBINATION D-SUB CONNECTORS HIGH DENSITY** Shell: Steel tin plated Quality class $\vec{3}$ (A) = 50 mating cyles With signal contacts & high power contacts 20 A Current rating signal contacts [A] On request: Working voltage [V] • Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, straight Quality class • M3 thread No. of poles **Precision machined contacts** Through-hole Ø 3 mm Part No. Socket contact Part No. Plug contact 3H15W4SAR**69**A10X 3H15W4PAR**69**A10X 3 (UL, VDE) / 2.5 (CSA) 3H19W1SAR**69**A10X 3H19W1PAR**69**A10X 60 For other Power contacts select code from spread sheet Code Current rating Diameter solder pin 20 A 2.60 2.85 45W2 3H45W2SAR**69**A10X 3H45W2PAR**69**A10X 30 A 3.18 3.75 72 40 A 4-40 UNC threaded insert 3H15W4SAR**69**A30X 3H15W4PAR**69**A30X 15W4 4-40 UNC 3 (UL, VDE) / 2.5 (CSA) 3H19W1SAR**69**A30X 3H19W1PAR**69**A30X 19W1 60 For other Power contacts select code from spread sheet Code Current rating Diameter solder pin 68 20 A 69 20 A 2.60 70 20 A 2.85 3H45W2SAR**69**A30X 3H45W2PAR**69**A30X 45W2 30 A 3.18 72 40 A 4-40 UNC threaded rear spacer 15W4 3H15W4SAR**69**A50X 3H15W4PAR**69**A50X 4-40 UNC 19W1 60 3H19W1SAR**69**A50X 3H19W1PAR**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 3H45W2SAR**69**A50X 3H45W2PAR**69**A50X 45W2 30 A 3.18 72 40 A

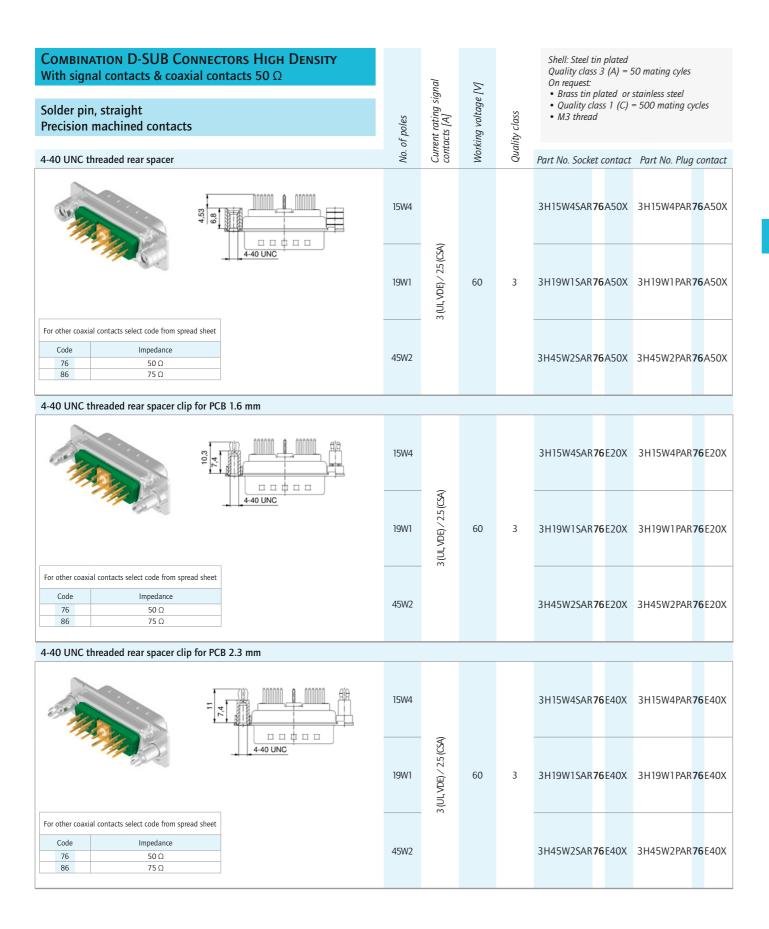


### **COMBINATION D-SUB CONNECTORS HIGH DENSITY** Shell: Steel tin plated Quality class $\vec{3}$ (A) = 50 mating cyles With signal contacts & high power contacts 20 A Current rating signal contacts [A] On request: Working voltage [V] • Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, straight Quality class • M3 thread No. of poles **Precision machined contacts** 4-40 UNC threaded rear spacer clip for PCB 1.6 mm Part No. Socket contact Part No. Plug contact 15W4 3H15W4SAR**69**E20X 3H15W4PAR**69**E20X 4-40 UNC 3 (UL, VDE) / 2.5 (CSA) 3H19W1SAR**69**E20X 3H19W1PAR**69**E20X 19W1 60 For other Power contacts select code from spread sheet Code Current rating Diameter solder pin 70 20 A 2.85 45W2 3H45W2SAR**69**E20X 3H45W2PAR**69**E20X 30 A 3.18 72 4-40 UNC threaded rear spacer clip for PCB 2.3 mm 3H15W4SAR**69**E40X 3H15W4PAR**69**E40X 15W4 4-40 UNC 3H19W1SAR**69**E40X 3H19W1PAR**69**E40X 60 For other Power contacts select code from spread sheet Code Current rating Diameter solder pin 69 20 A 2,60 3H45W2SAR**69**E40X 3H45W2PAR**69**E40X 45W2 30 A 3,18 72 40 A 3,75 4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm 15W4 3H15W4SAR**69**F20X 3H15W4PAR**69**F20X 4-40 UNC 19W1 60 3H19W1SAR**69**F20X 3H19W1PAR**69**F20X For other Power contacts select code from spread sheet Current rating Diameter solder pin Code 68 20 A 1.95 69 20 A 2.60 70 20 A 2.85 3H45W2SAR**69**F20X 3H45W2PAR**69**F20X 45W2 72 40 A









**CONEC** 2 61

Combination D-SUB Connectors High Density With signal contacts & coaxial contacts 50 $\Omega$ Solder pin, straight Precision machined contacts		Vo. of poles	Current rating signal contacts [A]	Norking voltage [V]	Quality class	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	stainless steel	
4-40 UNC fro	ont, threaded rear space	r clip for PCB 1,6 mm	No. c	Curre	Work	Qua	Part No. Socket contact	Part No. Plug contact
		10.3	15W4				3H15W4SAR <b>76</b> F20X	3H15W4PAR <b>76</b> F20X
		4-40 UNC Ø4	19W1	3 (UL, VDE) / 2.5 (CSA)	60	3	3H19W1SAR <b>76</b> F20X	3H19W1PAR <b>76</b> F20X
For other coaxial	contacts select code from spread	sheet		. m				
76 86	Impedance 50 Ω 75 Ω		45W2				3H45W2SAR <b>76</b> F20X	3H45W2PAR <b>76</b> F20X
4-40 UNC fro	ont, threaded rear space	r clip for PCB 2,3 mm						
			15W4				3H15W4SAR <b>76</b> F40X	3H15W4PAR <b>76</b> F40X
		4-40 UNC Ø4	19W1	3 (UL, VDE) / 2.5 (CSA)	60	3	3H19W1SAR <b>76</b> F40X	3H19W1PAR <b>76</b> F40X
For other coaxial	contacts select code from spread	I sheet		. 6				
76 86	Impedance 50 Ω 75 Ω		45W2				3H45W2SAR <b>76</b> F40X	3H45W2PAR <b>76</b> F40X



### COMBINATION D-SUB CONNECTORS HIGH DENSITY Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles With signal contacts & high power contacts 20 A Current rating signal contacts [A] • Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, angled, 3.50"/7.98 mm Quality class • M3 thread Precision machined contacts, metal bracket 4-40 UNC threaded insert Part No. Socket contact Part No. Plug contact 3H15W4SAT**73**G60X 3H15W4PAT**73**G60X 4-40 UNC 3H19W1SAT**73**G60X 3H19W1PAT**73**G60X 60 For other Power contacts select code from spread sheet Code Current rating Diameter solder pin 1.90 59 15 A 2.85 3H45W2SAT**73**G60X 3H45W2PAT**73**G60X 20 A 45W2 3.20 30 A 75 3.75 40 A Clip for PCB 1.6 mm, 4-40 UNC threaded insert 3H15W4SAT**73**G80X 3H15W4PAT**73**G80X 4-40 UNC 3 (UL, VDE) / 2.5 (CSA) 3H19W1SAT**73**G80X 3H19W1PAT**73**G80X 60 For other Power contacts select code from spread sheet Code Current rating Diameter solder pin 59 15 A 1.90 2.85 3H45W2SAT**73**G80X 3H45W2PAT**73**G80X 73 74 20 A 45W2 30 A 75 40 A 3.75

**CONEC** 2 | 63

### COMBINATION D-SUB CONNECTORS HIGH DENSITY Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles With signal contacts & coaxial contacts 50 $\Omega$ Current rating signal contacts [A] On request: • Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, angled, 3.50"/7.98 mm Quality class No. of poles • M3 thread Precision machined contacts, metal bracket 4-40 UNC threaded insert Part No. Socket contact Part No. Plug contact 3H15W4SAT**78**G60X 3H15W4PAT**78**G60X 4-40 UNC 3H19W1SAT**78**G60X 3H19W1PAT**78**G60X 60 For other coaxial contacts select code from spread sheet Code Impedance 3H45W2SAT**78**G60X 3H45W2PAT**78**G60X 45W2 50 Ω Clip for PCB 1.6 mm, 4-40 UNC threaded insert 3H15W4SAT**78**G80X 3H15W4PAT**78**G80X 3 (UL, VDE) / 2.5 (CSA) 4-40 UNC 3H19W1SAT**78**G80X 3H19W1PAT**78**G80X 60 For other coaxial contacts select code from spread sheet Code Impedance 3H45W2SAT**78**G80X 3H45W2PAT**78**G80X 45W2 50 Ω 88 75 Ω



COMBINATION D-SUB CON Without contacts	NECTORS			Shell: Steel tin plated On request: • Brass tin plated or stainless steel • M3 thread		
For straight high power, coaxis High voltage contacts	al or	No. of poles	e Je			
Through-hole Ø 3 mm	ugh-hole Ø 3 mm		UL-File	Part No. Socket contact Part No. Plug contact		
		3W3	E228329	3003W3SXX <b>99</b> A10X 3003W3PXX <b>99</b> A10X		
	93	5W5		3005W5SXX <b>99</b> A10X 3005W5PXX <b>99</b> A10X		
		8W8		3008W85XX <b>99</b> A10X 3008W8PXX <b>99</b> A10X		
Through-hole Ø 3 mm, coded version						
		2W2C	E228329	302W2CSXX <b>99</b> A10X 302W2CPXX <b>99</b> A10X		
	Ø3	3W3C		303W3CSXX99A10X 303W3CPXX99A10X		
4-40 UNC threaded insert						
		3W3	E228329	3003W3SXX99A30X 3003W3PXX99A30X		
	95.7 4-40 UNC	5W5		3005W5SXX99A30X 3005W5PXX99A30X		
		8W8		3008W8SXX99A30X 3008W8PXX99A30X		
4-40 UNC threaded insert, coded version						
	2.55	2W2C	E228329	302W2CSXX <b>99</b> A30X 302W2CPXX <b>99</b> A30X		
	4-40 UNC	3W3C		303W3CSXX <b>99</b> A30X 303W3CPXX <b>99</b> A30X		



COMBINATION D-SUB CONNECTORS With high power contacts 20 A  Solder pin, straight	No. of poles	le	Quality class	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.	UL-File	Qual	Part No. Socket contact Part No. Plug contact		
88				3003W35XX <b>69</b> A50X 3003W3PXX <b>69</b> A50X		
For other Power contacts select code from spread sheet  Code Current rating Diameter solder pin	5W5	E228329	3	3005W55XX <b>69</b> A50X 3005W5PXX <b>69</b> A50X		
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	8W8			3008W85XX <b>69</b> A50X 3008W8PXX <b>69</b> A50X		
4-40 UNC, threaded rear spacer, coded version						
4-40 UNC	2W2C	13.29		302W2CSXX <b>69</b> A50X 302W2CPXX <b>69</b> 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	3W3C	E228329	3	303W3CSXX <b>69</b> A50X 303W3CPXX <b>69</b> A50X		
4-40 UNC threaded rear spacer clip for PCB 1.6 mm						
4-40 INC	3W3			3003W35XX <b>69</b> E20X 3003W3PXX <b>69</b> E20X		
For other Power contacts select code from spread sheet	5W5	E228329	3	3005W55XX <b>69</b> E20X 3005W5PXX <b>69</b> E20X		
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	8W8			3008W85XX <b>69</b> E20X 3008W8PXX <b>69</b> E20X		



### 440 UNC threaded rear spacer clip for PCB 1.6 mm, coded version  #### 2002  ### 2002  ### 2004  ### 20						
2W2C   302W2CSXX69E20X   302W2CPXX69E	With high power contacts 20 A		ø	ly class	Quality class 3 (A) = 50 mating cyles On request: • Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles	
For other Power contacts select code from spread sheet    Code	4-40 UNC threaded rear spacer clip for PCB 1.6 mm, coded version	No. o	UL-Fi	Qual	Part No. Socket contact Part No. Plug contact	
Code   Current rating   Diameter solder pin	4-40 UNC	2W2C	8329	7	302W2CSXX <b>69</b> E20X 302W2CPXX <b>69</b> E20X	
3W3 3003W3SXX69E40X 3003W3PXX69E  5W5 88 3 3005W5SXX69E40X 3005W5PXX69E  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  4-40 UNC threaded rear spacer clip for PCB 2.3 mm, coded version  2W2C 302W2CSXX69E40X 3003W3PXX69E	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	3W3C	E22	3	303W3CSXX <b>69</b> E20X 303W3CPXX <b>69</b> E20X	
5W5	4-40 UNC threaded rear spacer clip for PCB 2.3 mm					
5W5		3W3			3003W3SXX <b>69</b> E40X 3003W3PXX <b>69</b> E40X	
Code   Current rating   Diameter solder pin   69   20 A   2,60   71   30 A   3,18   72   40 A   3,75   8W8   3008W85XX69E40X   3008W85XX	4-40 UNC	5W5	E228329	3	3005W55XX <b>69</b> E40X 3005W5PXX <b>69</b> E40X	
2W2C 302W2CSXX69E40X 302W2CPXX69E	Code         Current rating         Diameter solder pin           69         20 A         2,60           71         30 A         3,18	8W8			3008W8SXX <b>69</b> E40X 3008W8PXX <b>69</b> E40X	
2W2C 302W2CSXX69E40X 302W2CPXX69E	4-40 UNC threaded rear spacer clip for PCB 2.3 mm, coded version					
33	4-40 UNC	2W2C	E228329	2	302W2CSXX <b>69</b> E40X 302W2CPXX <b>69</b> E40X	
E2.28			E2 28	3		
For other Power contacts select code from spread sheet    Code	Code         Current rating         Diameter solder pin           69         20 A         2,60           71         30 A         3,18				303W3CSXX <b>69</b> E40X 303W3CPXX <b>69</b> E40X	



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	
Solder pin, straight	No. of poles	ile	Quality class	<ul> <li>Quality class 1 (C) = 500 mating cycles</li> <li>M3 thread</li> </ul>	
4-40 UNC threaded rear spacer clip for PCB 3.2 mm	No.	UL-File	Onc	Part No. Socket contact	Part No. Plug contact
6: 12 4-40 UNC	3W3			3003W3SXX <b>69</b> E60X	3003W3PXX <b>69</b> E60X
	5W5	E228329	3	3005W5SXX <b>69</b> E60X	3005W5PXX <b>69</b> E60X
Code         Current rating         Diameter solder pin           69         20 A         2,60           71         30 A         3,18           72         40 A         3,75	8W8			3008W8SXX <b>69</b> E60X	3008W8PXX <b>69</b> E60X
4-40 UNC threaded rear spacer clip for PCB 3.2 mm, coded version					
4-40 UNC	2W2C	33.29	2	302W2CSXX <b>69</b> E60X	302W2CPXX <b>69</b> E60X
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	3W3C	E228329	3	303W3CSXX <b>69</b> E60X	303W3CPXX <b>69</b> E60X





	No. of poles	0)	Quality class	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		UL-File	Qualit	Part No. Socket contact Part No. Plug contact		
2 4-40 UNC	2W2C	E228329	2	302W2CSXX <b>76</b> E20X 302W2CPXX <b>76</b> E20X		
For other coaxial contacts select code from spread sheet	3W3C	E221	3	303W3CSXX <b>76</b> E20X 303W3CPXX <b>76</b> E20X		
4-40 UNC threaded rear spacer clip for PCB 2.3 mm						
= <sup>1</sup> / <sub>4</sub>	3W3	E228329	3	3003W3SXX <b>76</b> E40X 3003W3PXX <b>76</b> E40X		
4-40 UNC	5W5			3005W5SXX <b>76</b> E40X 3005W5PXX <b>76</b> E40X		
For other coaxial contacts select code from spread sheet	8W8			3008W8SXX <b>76</b> E40X 3008W8PXX <b>76</b> E40X		
4-40 UNC threaded rear spacer clip for PCB 2.3 mm, coded version						
4-40 UNC	2W2C	329		302W2CSXX <b>76</b> E40X 302W2CPXX <b>76</b> E40X		
ther coaxial contacts select code from spread sheet	     E228329	3	303W3CSXX <b>76</b> E40X 303W3CPXX <b>76</b> E40X			



COMBINATION D-SUB CONNECTORS With coaxial contacts 50 $\Omega$ Solder pin, straight		No. of poles	UL-File	Quality class	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					Part No. Socket contact Part No. Plug contact	
	7.4	3W3			3003W3SXX <b>76</b> E60X 3003W3PXX <b>76</b> E60X	
	4-40 UNC	4-40 UNC 5W5	E228329	3	3005W55XX <b>76</b> E60X 3005W5PXX <b>76</b> E60X	
For other coaxial contacts select code fi	om spread sheet					
Code         Impedan           76         50 Ω           86         75 Ω	се	8W8			3008W8SXX <b>76</b> E60X 3008W8PXX <b>76</b> E60X	
4-40 UNC threaded rear space	er clip for PCB 3.2 mm, coded version					
	4-40 UNC	2W2C	E228329	3	302W2CSXX <b>76</b> E60X 302W2CPXX <b>76</b> E60X	
For other coaxial contacts select code fit		3W3C	E2.28	3	303W3CSXX <b>76</b> E60X 303W3CPXX <b>76</b> E60X	

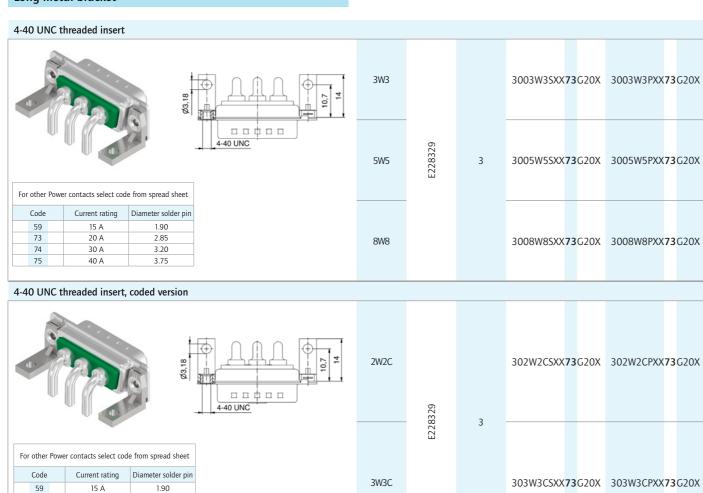


Combination D-SUB Connectors				Shell: Steel tin plated	
With high power contacts 20 A  Solder pin, angled Short metal bracket	No. of poles	, a	Quality class	Quality class 3 (A) = 50 mating cyles On request:  Brass tin plated or stainless steel Quality class 1 (C) = 500 mating cycles M3 thread	
4-40 UNC threaded insert	No. 01	UL-File	Quali	Part No. Socket contact Part No. Plug contact	
For other Power contacts select code from spread sheet	3W3	E228329	3	3003W35XX <b>73</b> N20X 3003W3PXX <b>73</b> N20X	
	5W5			3005W55XX <b>73</b> N20X 3005W5PXX <b>73</b> N20X	
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	8W8			3008W8SXX <b>73</b> N20X 3008W8PXX <b>73</b> N20X	
4-40 UNC threaded insert, coded version					
81 ES S S S S S S S S S S S S S S S S S S	2W2C	329		302W2CSXX <b>73</b> N20X 302W2CPXX <b>73</b> N20X	
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	3W3C	E228329	3	303W3CSXX <b>73</b> N20X 303W3CPXX <b>73</b> N20X	
Clip for PCB 1.6 mm, 4-40 UNC threaded insert					
1.1.3.4 B. S.	3W3			3003W35XX <b>73</b> N40X 3003W3PXX <b>73</b> N40X	
For other Power contacts select code from spread sheet	5W5	E228329	3	3005W55XX <b>73</b> N40X 3005W5PXX <b>73</b> N40X	
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	8W8			3008W85XX <b>73</b> N40X 3008W8PXX <b>73</b> N40X	



#### COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Quality class 3'(A) = 50 mating cyles With high power contacts 20 A On request: Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles Solder pin, angled • M3 thread No. of poles Short metal bracket Quality UL-File Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version Part No. Socket contact Part No. Plug contact 2W2C 302W2CSXX**73**N40X 302W2CPXX**73**N40X 4-40 UNC For other Power contacts select code from spread sheet Code Current rating Diameter solder pin 3W3C 303W3CSXX**73**N40X 303W3CPXX**73**N40X 59 15 A 1.90 73 74 20 A 2.85 30 A 3.20 75 40 A 3.75

### Solder pin, angled Long metal bracket





Downloaded from Arrow.com.

73

74

75

20 A

30 A

40 A

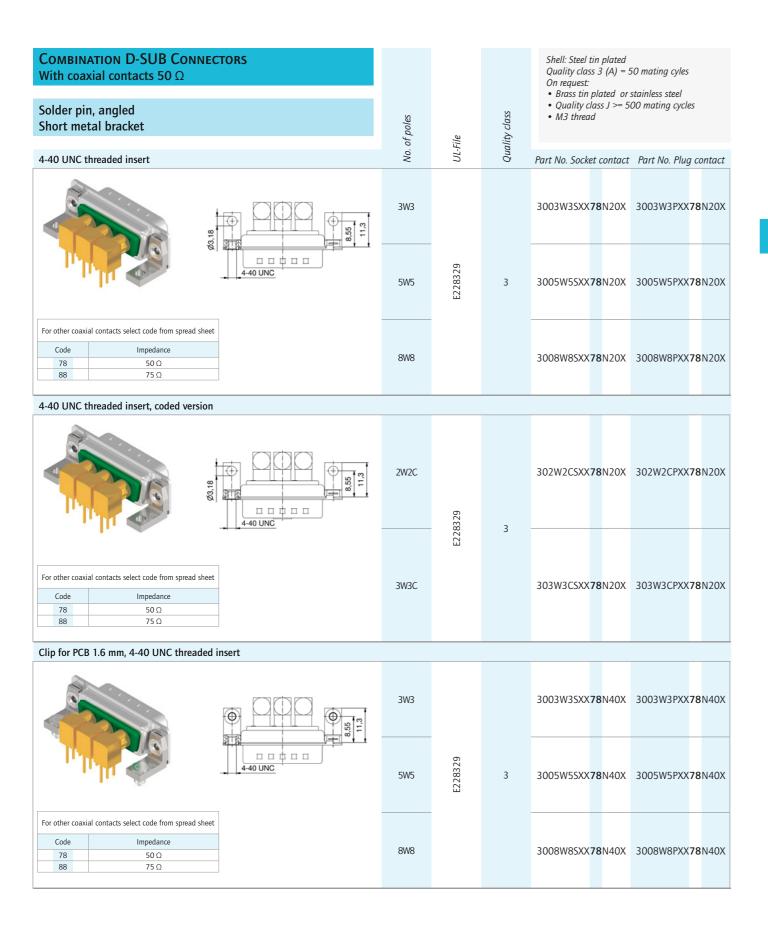
2.85

3.20

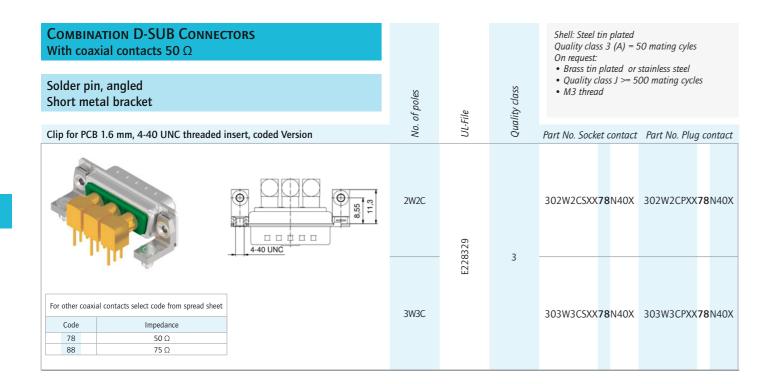
3.75

COMBINATION D-SUB CONNECTORS With high power contacts 20 A  Solder pin, angled Long metal bracket					File	Quality class	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 PCE	3 1.6 mm, 4-40	UNC threaded	insert	No. of poles	UL-File	Qual	Part No. Socket contact	Part No. Plug contact			
			11	3W3			3003W3SXX <b>73</b> G40X	3003W3PXX <b>73</b> G40X			
For other Power	er contacts select coo	de from spread sheet	4-40 UNC	5W5	E228329	3	3005W5SXX <b>73</b> G40X	3005W5PXX <b>73</b> G40X			
Code 59 73 74 75	Current rating 15 A 20 A 30 A 40 A		8W8			3008W8SXX <b>73</b> G40X	3008W8PXX <b>73</b> G40>				
Clip for PCE	3 1.6 mm, 4-40	UNC threaded	insert, coded Version								
		6	4-40 UNC	2W2C	E228329	3	302W2CSXX <b>73</b> G40X	302W2CPXX <b>73</b> G40X			
For other Power	er contacts select coc	de from spread sheet	7		E228	3					
Code 59 73 74 75	Current rating 15 A 20 A 30 A 40 A	Diameter solder pi 1.90 2.85 3.20 3.75		3W3C			303W3CSXX <b>73</b> G40X	303W3CPXX <b>73</b> G40X			

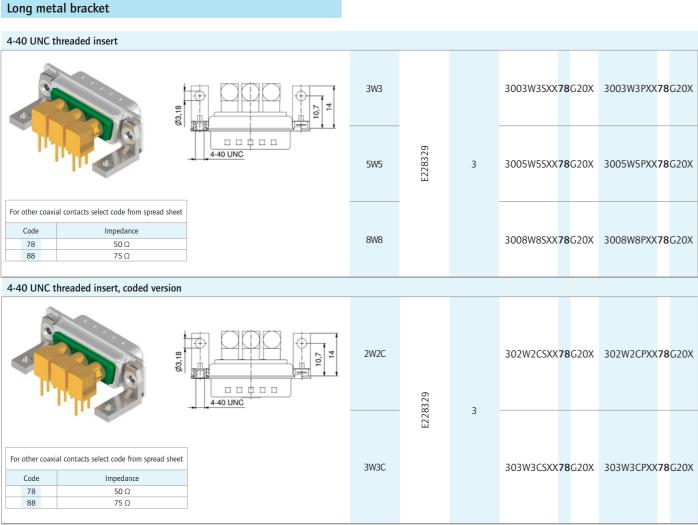








## Solder pin, angled Long metal bracket



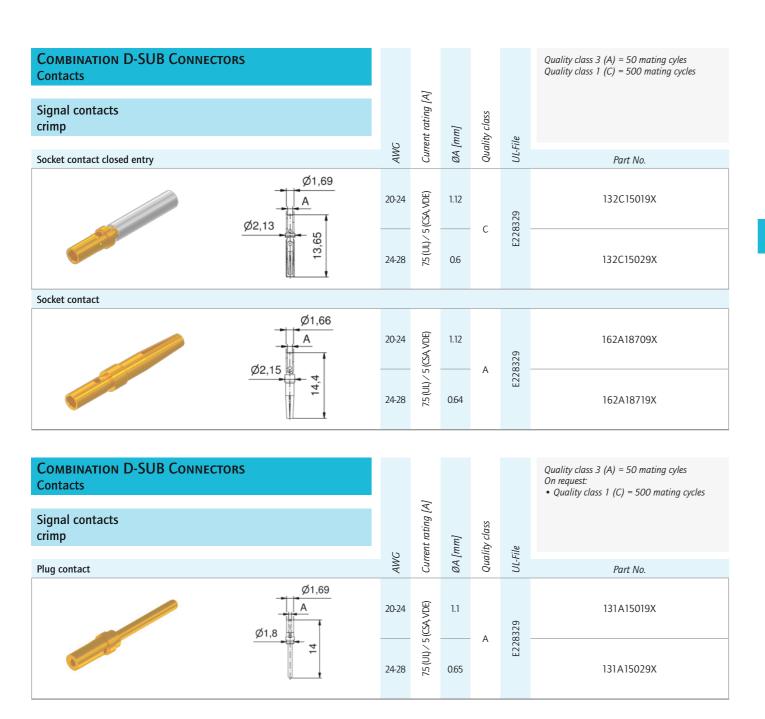


Combination D-SUB Connectors With coaxial contacts 50 $\Omega$	səlo		551	Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles On request: • Brass tin plated or stainless steel • Quality class J >= 500 mating cycles • M3 thread			
Clip for PCB 1.6 mm, 4-40 UNC threaded insert	No. of poles	UL-File	Quality class	Part No. Socket contact Part No. Plug contact			
41 To 12 To	3W3	E228329		3003W3SXX <b>78</b> G40X 3003W3PXX <b>78</b> G40X			
4-40 UNC	5W5		3	3005W5SXX <b>78</b> G40X 3005W5PXX <b>78</b> G40X			
For other coaxial contacts select code from spread sheet	8W8			3008W8SXX <b>78</b> G40X 3008W8PXX <b>78</b> G40X			
Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version							
4-40 UNC	2W2C	5228329	3	302W2CSXX <b>78</b> G40X 302W2CPXX <b>78</b> G40X			
For other coaxial contacts select code from spread sheet	3W3C	E228	3	303W3CSXX <b>78</b> G40X 303W3CPXX <b>78</b> G40X			

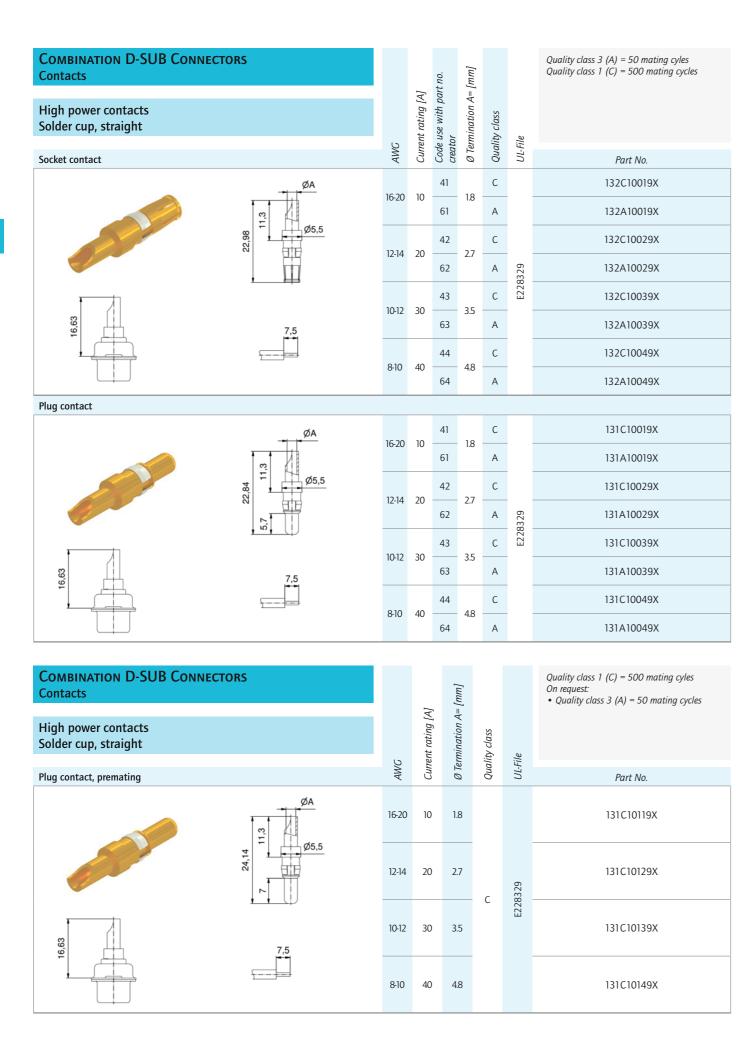
Downloaded from Arrow.com.

COMBINATION D-SUB CONNE Without contacts	CTORS			Shell: Steel tin plated On request:  Brass tin plated or s  M thread	stainless steel
Crimp body		S			
AWG 20-24 and AWG 26-28		No. of poles	ile		
Through-hole Ø 3 mm		No.	UL-File	Part No. Socket contact	Part No. Plug contact
		5W1		3005W1SXK <b>99</b> A10X	3005W1PXK <b>99</b> A10X
		7W2		3007W2SXK <b>99</b> A10X	3007W2PXK <b>99</b> A10X
800		9W4		3009W4SXK <b>99</b> A10X	3009W4PXK <b>99</b> A10X
63.00	Ø3	11W1		3011W1SXK <b>99</b> A10X	3011W1PXK <b>99</b> A10X
		13W3		3013W3SXK <b>99</b> A10X	3013W3PXK <b>99</b> A10X
		13W6		3013W6SXK <b>99</b> A10X	3013W6PXK <b>99</b> A10X
		17W2		3017W2SXK <b>99</b> A10X	3017W2PXK <b>99</b> A10X
		17W5	E228329	3017W5SXK <b>99</b> A10X	3017W5PXK <b>99</b> A10X
		21W1	E228	3021W1SXK <b>99</b> A10X	3021W1PXK <b>99</b> A10X
		24W7		3024W7SXK <b>99</b> A10X	3024W7PXK <b>99</b> A10X
		25W3		3025W3SXK <b>99</b> A10X	3025W3PXK <b>99</b> A10X
		27W2		3027W2SXK <b>99</b> A10X	3027W2PXK <b>99</b> A10X
		36W4		3036W4SXK <b>99</b> A10X	3036W4PXK <b>99</b> A10X
		43W2		3043W2SXK <b>99</b> A10X	3043W2PXK <b>99</b> A10X
		47W1		3047W1SXK <b>99</b> A10X	3047W1PXK <b>99</b> A10X
		21WA4		321WA4SXK <b>99</b> A10X	321WA4PXK <b>99</b> A10X
4-40 UNC threaded insert					
	-	5W1		3005W1SXK <b>99</b> A30X	3005W1PXK <b>99</b> A30X
		7W2		3007W2SXK <b>99</b> A30X	3007W2PXK <b>99</b> A30X
	2,55	9W4		3009W4SXK <b>99</b> A30X	3009W4PXK <b>99</b> A30X
80	4-40 UNC	11W1		3011W1SXK <b>99</b> A30X	3011W1PXK <b>99</b> A30X
		13W3		3013W3SXK <b>99</b> A30X	3013W3PXK <b>99</b> A30X
		13W6		3013W6SXK <b>99</b> A30X	3013W6PXK <b>99</b> A30X
		17W2		3017W2SXK <b>99</b> A30X	3017W2PXK <b>99</b> A30X
		17W5	E228329	3017W5SXK <b>99</b> A30X	3017W5PXK <b>99</b> A30X
		21W1	E2.	3021W1SXK <b>99</b> A30X	3021W1PXK <b>99</b> A30X
		24W7		3024W7SXK <b>99</b> A30X	3024W7PXK <b>99</b> A30X
		25W3		3025W3SXK <b>99</b> A30X	3025W3PXK <b>99</b> A30X
		27W2		3027W2SXK <b>99</b> A30X	
		36W4		3036W4SXK <b>99</b> A30X	3036W4PXK <b>99</b> A30X
		43W2		3043W2SXK <b>99</b> A30X	3043W2PXK <b>99</b> A30X
		47W1		3047W1SXK <b>99</b> A30X	3047W1PXK <b>99</b> A30X
		21WA4		321WA4SXK <b>99</b> A30X	321WA4PXK <b>99</b> A30X

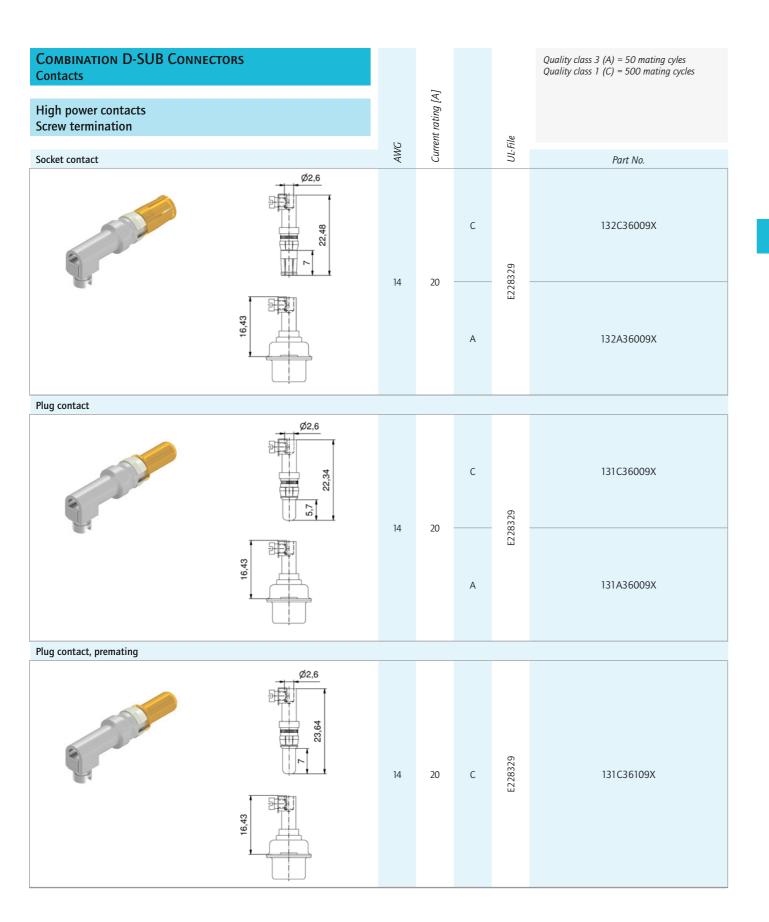










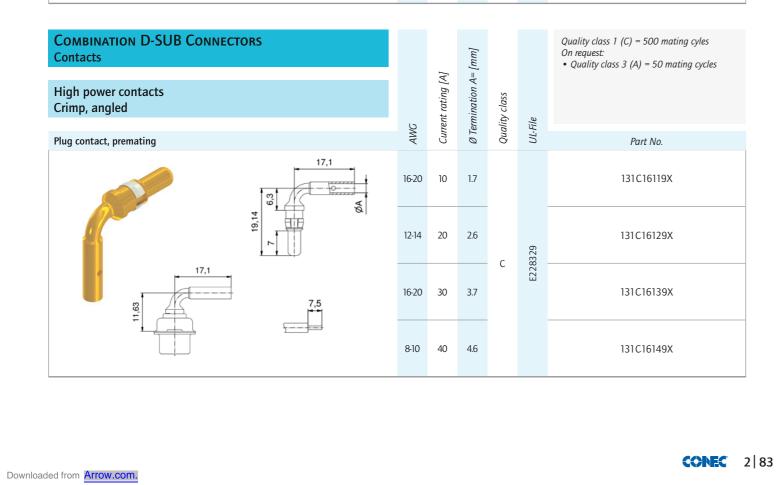




COMBINATION D-SUB CONNEC	TORS						Quality class 3 (A) = 50 mating cyles
Contacts				[mm]			Quality class 1 (C) = 500 mating cycles
High power contacts Crimp, straight		15	Current rating [A]	Ø Termination A= [mm]	Quality class	ile	
Socket contact		AWG	Curre	Ø Tei	Qual	UL-File	Part No.
	<del>-</del>   ,   ØA				С		132C11019X
	© Ø5,5	16-20	10	1.7	А		132A11019X
	86 77 95,5	12.14	20	26	С		132C11029X
		12-14	20	2.6	Α	E228329	132A11029X
<u> </u>		10-12	30	3.7	С	E228	132C11039X
16,63		10-12	30	3./	Α		132A11039X
	7,5	8-10	40	46	С		132C11049X
	<del>}</del>	0-10	40	4.6	Α		132A11049X
Plug contact							
	ØA	16-20	10	1.7	С		131C11019X
	4 E Ø5,5	10-20	10	1.7	Α		131A11019X
	7.5	12-14	20	2.6	С		131C11029X
		12-14	20	2.0	Α	E228329	131A11029X
		10-12	30	3.7	С	E228	131C11039X
16,63		10-12	30	5.7	Α		131A11039X
1	<u> </u>	8-10	40	4.6	С		131C11049X
		0-10	40	4.0	Α		131A11049X
Plug contact, premating							
	11.3 A	16-20	10	1.7			131C11119X
	24,14	12-14	20	2.6	С	E228329	131C11129X
16,63	7,5		30	3.7	C	E228	131C11139X
			40	4.6			131C11149X



Combination D-SUB Connectors Contacts  High power contacts Crimp, angled		Current rating [A]	Ø Termination A= [mm]	Quality class	e.	Quality class 3 (A) = 50 mating cyles Quality class 1 (C) = 500 mating cycles
Socket contact	AWG	Curre	Ø Teri	Quali	UL-File	Part No.
17,1				С		132C16019X
m d	16-20	10	1.7	А		132A16019X
86.71 8A.80				С		132C16029X
<u> </u>	12-14	20	2.6	А	329	132A16029X
17,1				С	E228329	132C16039X
7.5	10-12	30	3.7	A		132A16039X
7,5				С		132C16049X
	8-10	40	4.6	А		132A16049X
Plug contact						
17,1	16-20	10	1.7	С		131C16019X
S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.	10-20	10	1.7	Α		131A16019X
17,84 ØA	12-14	20	2.6	С		131C16029X
7,5	10-12	20	3.7	Α	E228329	131A16029X
17,1	0.10	20	4.6	С	E228	131C16039X
7,5	8-10	30	4.6	А		131A16039X
	12-14	40	2.6	С		131C16049X
	10-12	40	3.7	А		131A16049X
Combination D-SUB Connectors Contacts  High power contacts Crimp, angled		Current rating [A]	Ø Termination A= [mm]	Quality class	ile	Quality class 1 (C) = 500 mating cyles On request: • Quality class 3 (A) = 50 mating cycles
Plug contact, premating	AWG	Curre	Ø Te	Qual	UL-File	Part No.
17,1	16-20	10	1.7			131C16119X
19,14 7 7 8 A	12-14	20	2.6		E228329	131C16129X
7,5	16-20	30	3.7	С	E228	131C16139X
	8-10	40	4.6			131C16149X

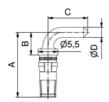


## COMBINATION D-SUB CONNECTORS Contacts

# High power contacts Solder pin, angled

## Socket contact

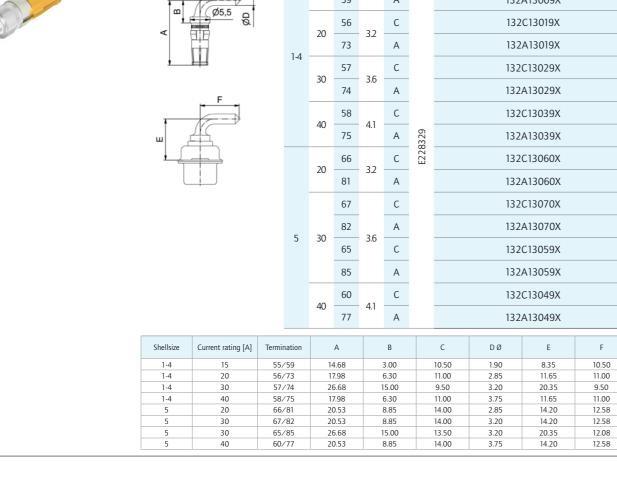




C Ø5,5	QØ.

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

Shell size	Current rating [A]	Code use with part no. creator	Hole diameter of PCB [mm]	Quality class	UL-File	Quality class 3 (A) = 50 mating cyles Quality class 1 (C) = 500 mating cycles	
Sh	Cn	Co	Ho	no	70	Part No.	
	15	55	2.3	С		132C13009X	
		59	2.0	Α		132A13009X	
	20	56	3.2	С		132C13019X	
1.4		73	3.2	Α			132A13019X
1-4		57	3.6	С		132C13029X	
	30	74	3.6	Α		132A13029X	
	40	58	4.1	С		132C13039X	
	40	75	4.1	Α	E228329	132A13039X	
	20	66	3.2	С	E228	132C13060X	
	20	81	3.2	Α		132A13060X	
		67		С		132C13070X	
5	30	82	3.6	Α		132A13070X	
5	30	65	3.0	С		132C13059X	
		85		Α		132A13059X	
	40	60	4.1	С		132C13049X	
	40	77	4.1	Α		132A13049X	





# COMBINATION D-SUB CONNECTORS Contacts

High power contacts Solder pin, angled Shell size

Current rating [A]

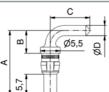
Code use with part no.
creator

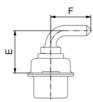
Hole diameter of PCB [m!

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

Plug contact







	Shel	Curi	Cod	Hole	Ona	nF-I	Part No.								
		15	55	22	С		131C13009X								
		13	59	2.3	Α		131A13009X								
		20	56	22	С		131C13019X								
	1-4	20	73	3.2	Α		131A13019X								
	1-4	20	57	2.0	С		131C13029X								
		30	74	3.6	Α	3329	131A13029X								
		40	58	4.1	С		131C13039X								
		40	75	4.1	Α		131A13039X								
		20	66	22	С	E228329	131C13060X								
		20	81	3.2	Α		131A13060X								
			67		С		131C13070X								
	_	30	82	3.6	Α		131A13070X								
	5	30	65	3.0	С		131C13059X								
			85		Α		131A13059X								
		40	60	4.1	С		131C13049X								
		40	40	40	40 -	40 -	40 -	40	40	40 -	77	4.1	Α		131A13049X

Shellsize	Current rating [A]	Termination	А	В	С	DØ	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

**CONEC** 2 | 85



15   23   131C13109X   20   32   131C13119X   20   32   30   36   36   313C13129X   30   36   36   313C13129X   30   36   313C13139X   30   36   313C13159X   30   36   36   313C13159X   30   36   313C13159X   30   313C13149X   30   313C13149X   30   313C13149X   30   313C13149X   30   313C13139X   30   313C131319X   30   313C131310X   30   313C131310X   30   313C131312X   30   313C131312X	Combination D-SUB Connectors  High power contacts Solder pin, angled	CTORS			size	Current rating [A]	Hole diameter of PCB [mm]	Quality class	On re	ity class 1 (C) quest: ality class 3 (/			
20   32   131C13119X	Plug contact, premating				Shell	Curre	Hole	Qual		F	Part No.		
30   36   131C13129X   30   36   32   32   32   33   33   33   33		1-	С	1		15	2.3			131	C13109X		
30   36   131C13129X		m	м Ø5,5 O			20	3.2			131C13119X			
Shellsize   Current rating [A]   A   B   C   D 0   E   F		4	8	84	1-4	30	3.6			131	C13129X		
Shellsize   Current rating [A]   A   B   C   D Ø   E   F			<u>                                   </u>			40	4.1			131	C13139X		
Shellsize Current rating [A] A B C DØ 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 27.84 15.00 13.50 3.20 20.35 12.08		1				20	3.2	C		131	C13160X		
Shellsize   Current rating [A]   A   B   C   D Ø   E   F							2.6			131C13170X			
Shellsize         Current rating [A]         A         B         C         DØ         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         27.84         15.00         13.50         3.20         20.35         12.08						30	3.0		131C13159X				
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						40	4.1			131	C13149X		
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			Shellsize	Current rat	ting [A]	А	В		С	DØ	E	F	
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			1-4	15		15.84	3.00		10.50	1.90	8.35	10.50	
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			1-4	20			6.30			2.85			
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         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 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	12.08	



#### COMBINATION D-SUB CONNECTORS Quality class 3 (A) = 50 mating cyles Current rating [A] Code use with part no. creator Quality class 1 (C) = 500 mating cycles Contacts High power contacts Quality class UL-File Solder pin, straight Shell size Socket contact Part No. 48 132C12019X С \_\_\_\_ 23 68 132A12019X 49 С 132C12029X 20 69 Α 132A12029X 132C12039X 132A12039X 51 132C12049X C 3.6 71 Α 132A12049X 40 52 4.1 C 132C12059X 132A12059X Current rating [A] Termination СØ Е 48/68 15.98 4.60 1.95 9.65 3.80 4.30 20 20 49/69 16.98 5.30 2.60 10.65 50/70 16.38 4.70 2.85 10.05 3.70 30 51/71 3.18 6.70 19.18 7.50 12.85 40 17.43 5.75 4.75 52/72 3.75 11.10 Plug contact С 131C12019X \_\_\_\_ 23 68 Α 131A12019X 49 C 131C12029X A 20 69 131A12029X 131C12039X 131A12039X 131C12049X 51 С 3.6 30 71 Α 131A12049X 40 52 4.1 C 131C12059X 131A12059X СØ Ε Current rating [A] Termination 48/68 15.84 4.60 1.95 9.65 3.80 49/69 16.84 5.30 2.60 10.65 4.30 20 30 16.24 4.70 2.85 10.05 3.70 50/70 51/71 19.04 7.50 3.18 12.85 6.70 40 52/72 17.29 5.75 11.10 4.75

**CONEC** 2 | 87

3.75



Combination D-SUB Contacts  High power contacts Solder pin, straight	NECTORS	ize	Current rating [A]	Hole diameter of PCB [mm]	Quality class	On req	uest:	= 500 mating (A) = 50 mating	
Plug contact, premating		Shell size	Currer	Hole c	Qualii		Pi	art No.	
The second of th	Ø5,5 ØC		П	23				C12119X	
			20	3.0		131C12129X			
		1-5		3.2	С		131	C12139X	
			30	3.6		131C12149X			
			40	4.1			131	C12159X	
			Current rating [A]	А		В	CØ	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 30	17.54 20.34		4.70 7.50	2.85 3.18	10.05 12.85	3.70 6.70
		-	40	18.59		5.75	3.75	11.10	4.75



## COMBINATION D-SUB CONNECTORS Quality class 1 (C) = 500 mating cyles Current rating [A] Code use with part no. creator On request: • Quality class 3 (A) = 50 mating cycles Contacts High power contacts Press-fit version, straight Socket contact Part No. P1 3.11 132C00229A 1-5 30 P2 325 C 87 CE 132C00299A P4 3.2 132C19019X C Ø ±0.03 16.48 4.80 3.13 2.96 3.11 30 30 16.48 4.80 3.27 3.10 3.25 P2 3.22 3.02 16.08 4.40 3.20 Р3 Plug contact P1 3.11 131C00319A 1.5 30 P2 3.25 C 82 C:3 131C00389A P4 3.2 131C19019X

Current rating [A] Termination

30

P2

P3

16.34

16.34

15.94

4.80

4.80

4.40

**CONEC** 2 | 89

C Ø ±0.03

3.13

3.27

3.22

D max.

3.11

3.25

3.20

2.96 3.10

3.02

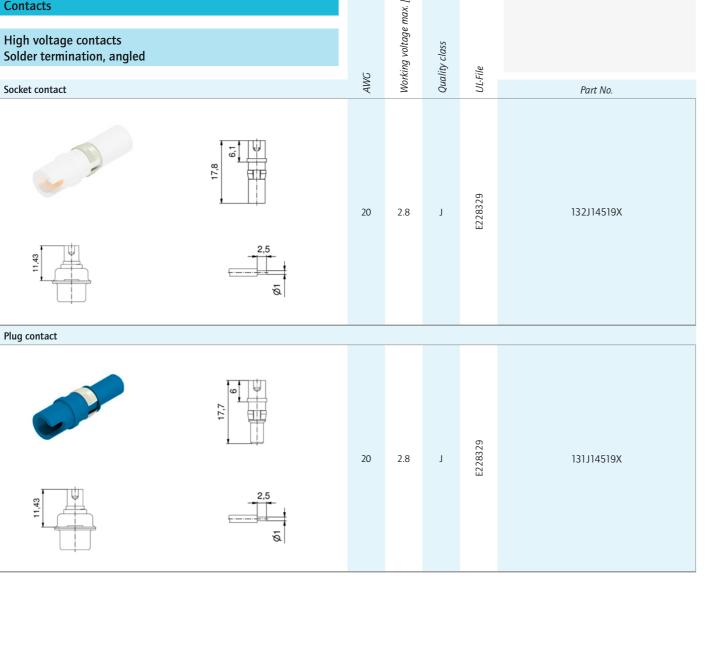
Downloaded from Arrow.com.

COMBINATION D-SUB CONNECTORS Contacts High voltage contacts			Working voltage max. [kV]	<b>1</b> 0		Quality class J >= 500 mating cyles	
Solder termination, straight		15	king vol.	Quality class	ile		
Socket contact		AWG	Wor	Ona	UL-File	Part No.	
12,43	18,7	20	2.8	J	E228329	132J14019X	
Plug contact							
12.43	18,7	20	2.8	J	E228329	131J14019X	



COMBINATION D-SUB CONNECTORS Contacts  High voltage contacts Solder termination, angled		U	Working voltage max. [kV]	Quality class	UL-File	Quality class J >= 500 mating cyles
Socket contact		AWG	Wo	Onc	nF-I	Part No.
11.43	2,5	20	2.8	J	E228329	132J14519X
Plug contact						
11,43	2,5	20	2.8	J	E228329	131J14519X

**CONEC** 2 | 91 Downloaded from Arrow.com.



#### **COMBINATION D-SUB CONNECTORS** Quality class J >= 500 mating cyles Quality class 3 (A) = 50 mating cyles Contacts Coaxial contacts, straight Inner conductor solder-, outer conductor crimp-/solder termi-Quality UL-File Cable Socket contact Part No. 178 B/U, 196 A/U, 404 /U 132J20019X 132A20019X 174 /U, 188 A/U, 316 /U 132J20029X 132A20029X 180 B/U 132J20039X Α 132A20039X 58 C/U, 141 A/U J 132J20049X Α 132A20049X 132J20059X 132A20059X 179 B/U, 187 A/U (B=7.3 mm) 132J30019X 132A30019X 179 B/U, 187 A/U 1 (B=11.2 mm) J 132J30029X 132A30029X Impedance Ω Usable Cable RG ΕØ GØ 17.55 1.20 2.30 9.50 11.20 0.85 3.00 5.00 178BU, 196AU,404 U 23.00 1.40 174U, 188AU, 316U 23.00 11.20 17.55 0.85 1.90 2.30 3.20 3.00 5.00 9.50 17.55 0.85 3.00 5.00 9.50 180BU 23.00 11.20 2.80 3.10 4.50 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 179BU, 187AU 19.05 7.30 12.80 0.50 1.90 2.30 3.20 2.00 3.10 6.00 75 179BU, 187AU 23.00 11.20 16.70 0.50 1.90 2.30 3.20 3.00 5.00 9.50 Plug contact 178 B/U, 196 A/U, 404 /U 131J20019X 131A20019X 131J20029X Α 131A20029X 131J20039X Α 131A20039X C/U, A/U J 131J20049X 58 141 Α 131A20049X 131J20059X 131A20059X 179 B/U, 179 B/U, 187 A/U (B=112 mm) 131J30019X Α 131A30019X J 131J30029X Α 131A30029X Impedance Ω Usable Cable RG В C DØ ΕØ FØ GØ Н J Α 178BU, 196AU,404 U 22.50 11.20 17.55 0.85 1.20 1.40 2.30 3.00 5.00 9.50 22.50 11.20 17.55 0.85 2.30 3.20 3.00 5.00 9.50 22.50 11.20 17.55 0.85 2.80 3.10 4.50 3.00 5.00 9.50 58CU, 141AU 26.30 20.15 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 179BU, 187AU 18.55 7.30 12.80 0.50 1.90 2.30 3.20 2.00 3.10 6.00 75 179BU, 187AU 22.50 11.20 16.70 0.50 1.90 2.30 3.20 3.00 5.00 9.50



#### COMBINATION D-SUB CONNECTORS Quality class J >= 500 mating cyles Quality class 3 (A) = 50 mating cyles Contacts Coaxial contacts, straight Quality class Inner and outer conductor crimp termination UL-File Socket contact Part No. 132J21019X 132A21019X 132J21029X 132A21029X 132J21039X 58 C/U, 141 A/U 132A21039X 132J31019X 132A31019X 132J31029X 132A31029X Impedance Ω Usable Cable RG С ΕØ FØ GØ 174U, 188AU, 316U 23.00 11.20 16.60 0.60 1.90 2.30 3.20 9.30 11.20 3.00 9.30 316U double braided 23.00 16.60 0.60 1.90 3.80 58CU, 141AU 22.70 10.90 16.30 1.30 3.70 4.30 5.20 9.30 179BU, 187AU 22.95 11.20 16.70 0.60 1.90 2.30 3.20 9.30 75 180BU 22.15 10.40 15.90 0.60 2.80 4.50 4.50 8.80 Plug contact 131J21019X 131A21019X 131J21029X 131A21029X 131J21039X 131A21039X 131J31019X 179 187 131A31019X 131J31029X 131A31029X Impedance Ω Usable Cable RG С DØ ΕØ FØ GØ Н 174U, 188AU, 316U 11.20 16.60 0.60 1.90 2.30 3.20 9.30 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

179BU, 187AU

75

22.45

21.65

11.20

10.40

15.90

0.60

0.60

2.80

2.30

4.50

3.20

4.50

**CONEC** 2 93

9.30

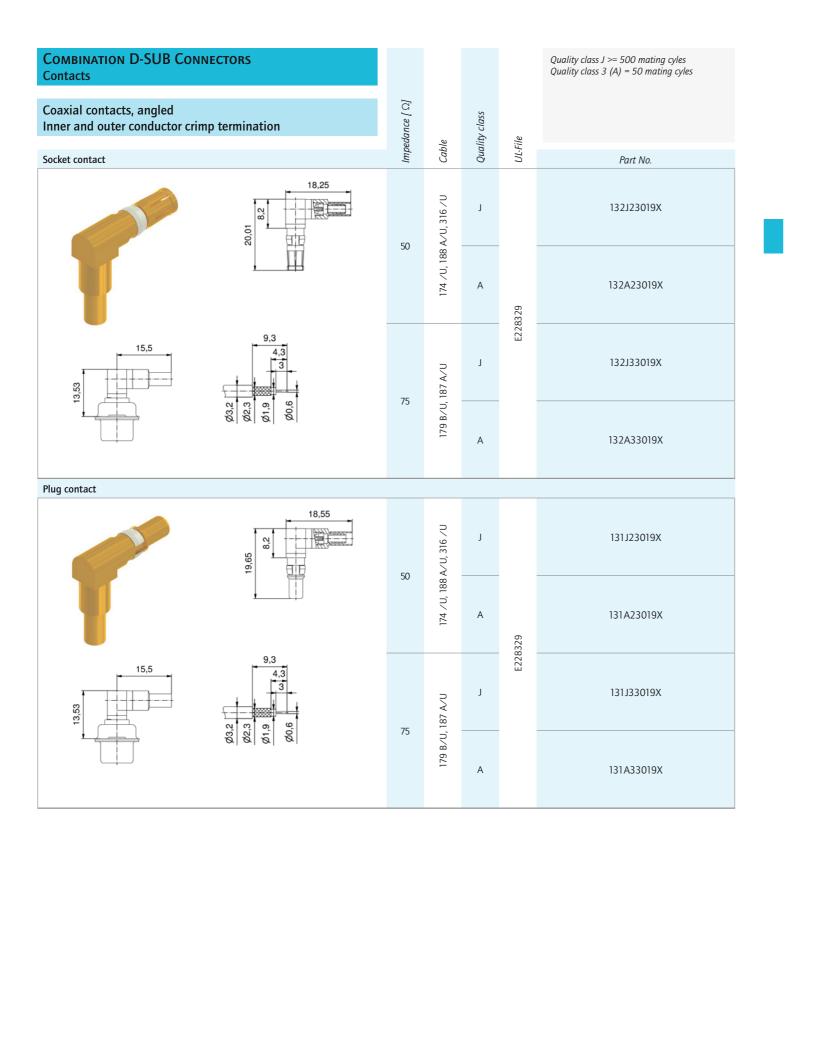
8.80

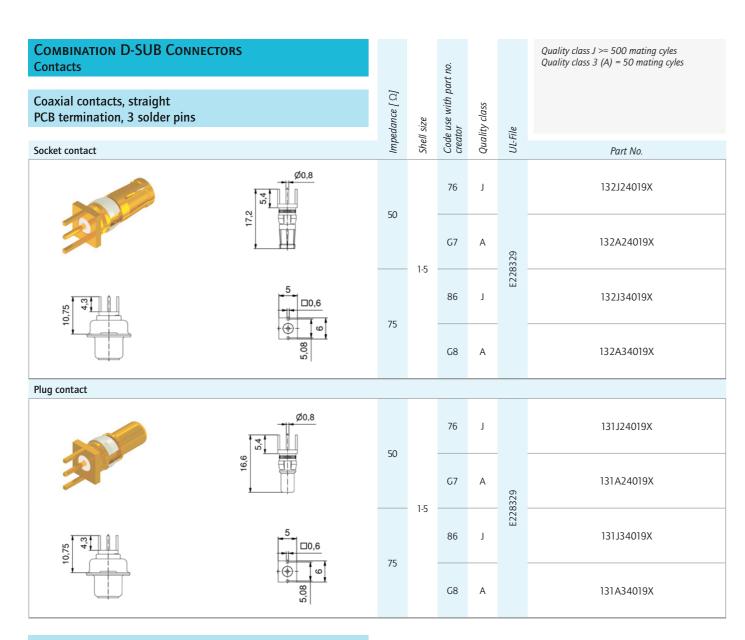


#### COMBINATION D-SUB CONNECTORS Quality class J >= 500 mating cyles Quality class 3 (A) = 50 mating cyles Contacts Coaxial contacts, angled Quality class Inner conductor solder-, outer conductor crimp-/solder termination UL-File Cable Socket contact Part No. 174 /U, 188 A/U, 316 /U 132J22019X 132A22019X Α 132J22029X 132A22029X 316 /U double braided 132J22039X 132A22039X mpedance Ω Usable Cable RG FØ GØ ΗØ 8.20 8.20 15.70 1.90 3.20 18.50 19.80 0.85 2.30 174U. 188AU. 316U 1.20 18.50 178BU, 196AU, 404U 19.80 15.70 0.85 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 174 /U, 188 A/U, 316 /U J 131J22019X 131A22019X Α 178 B/U, 196 A/U, 404 /U 131J22029X E228329 131A22029X 316 /U double braided 131J22039X Α 131A22039X Impedance Ω Usable Cable RG С D ΕØ FØ GØ ΗØ 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 16.70

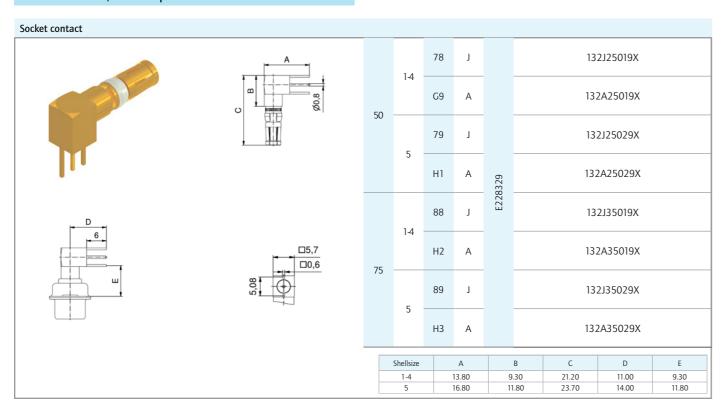


Downloaded from Arrow.com.





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





Combination D-SUB Connectors Contacts  Coaxial contacts, straight PCB termination, 5 solder pins		Impedance [ \O ]	e e	Code use with part no. creator	r class		Quality class J >= 500 mating cyles Quality class 3 (A) = 50 mating cyles
Socket contact		Ітредаі	Shell size	Code us creator	Quality class	UL-File	Part No.
	9,7	50		80	J		132J25519X
6,9	18,71	30	1-4	Н4	Α	E228329	132A25519X
PCB 3,7	□5,9 □0,8	75		90	J	E228	132J35519X
88,6	5,08			Н5	Α		132A35519X
Plug contact							
	9,7	50		80	J		131J25519X
6,9	18,2	30		H4	Α	E228329	131A25519X
PCB 3,7	□5,9 □0,8	75	- 14	90	J	E228	131J35519X
6 6 8 8 6 6	80.8	75		Н5	А		131A35519X

**CONEC** 2 97 Downloaded from Arrow.com.

Contacts  Coaxial contacts, angled PCB termination, 3 solder pins	TORS	Impedance [ \( \O \)]	Shell size	Code use with part no. creator	Quality class		Quality class J >= 500 mating cyles Quality class 3 (A) = 50 mating cyles				
Plug contact		Imped	Shell s	Code u creato	Qualit	UL-File	Part No.				
	A *			78	J		131J25019X				
	m 8		1-4	G9	A		131A25019X				
	0 0/8	50		79	J		131J25029X				
TI .	, []		5	Н1	A	329	131A25029X				
D 6	□5,7			88	J	E228329	131J35019X				
	□0,6		1-4	H2	A		131A35019X				
w w	90	75		89	J		131J35029X				
			5	НЗ	A		131A35029X				
			Shellsize		A		B C D E				
			1-4 5		13.80 16.80		1.30         20.70         11.00         9.30           1.80         23.20         14.00         11.80				
Combination D-SUB Connectors Contacts  Coaxial contacts, straight PCB termination, 5 solder pins		Impedance [ $\Omega$ ]	Shell size	Code use with part no. creator	Quality class	UL-File	Quality class J >= 500 mating cyles Quality class 3 (A) = 50 mating cyles				
Socket contact		Imp	She	Coc	Crec	UF-	Part No.				
	9,7	50	- 14 -	80	J		132J25519X				
6,9				H4	Α	E228329	132A25519X				
PCB 3,7				90	J	E22	132J35519X				
9,38	80.5	73		H5	А		132A35519X				
Plug contact											
	9,7	50		80	J		131J25519X				
6,9	18,2	50		H4	Α	329	131A25519X				
9CB 3,7	□5,9 □0,8		- 1-4	90	J	E228329	131J35519X				

Section 3





Basic material	Filter D-SUI 9-, 15-, 25-, 37			High Density 2-, 78-position			
Contacts		Сорре	er alloy				
Contact plating		Gold ov	er nickel				
Insulator		PBT GF L	JL 94 V-0				
Shell		Steel tin plated (on re	quest: brass tin plated)				
Technical data							
Dielectric with standing voltage	Standard Standard (T-Filter) High DWV Ultra high DWV Ultra high DWV	707 VDC	• Standard	300 VDC			
Working voltage	• Standard • High DWV • Ultra high DWV	100 VDC* 100 VDC* 200 VDC*	Standard     If the standard of the stand	100 VDC*			
		Depending on isolation coordinate	III (Tetel to DIIV VDE OTTO/TEC 004-1	J			
Voltage surge 10/700 μs	<ul><li>Standard</li><li>High Voltage</li></ul>	300 V 500 V	• Standa	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		R max. $10$ m $\Omega$ nach Beansp C 60807-2	oruchung			
Insulation resistance		≥ 1	GΩ				
Capacitor values	830 pF ±	20 % tolerance 20 % tolerance 20 % tolerance other capacitor	370 pF $\pm$ 20 % tolerance 830 pF $\pm$ 20 % tolerance values on request				
Operating temperature	-25 °C to	+105 °C	-25 °C to	o +85 °C			
Humidity		40 °C / 85 % rela	ative humidity/RH				
Mating and unmating forces	9-pos. s 15-pos. s 25-pos. s 37-pos. s 50-pos. s	≤ 83 N ≤ 123 N	15-pos. ≤ 50 N 26-pos. ≤ 83 N 44-pos. ≤ 110 N 62-pos. ≤ 170 N 78-pos. ≤ 200 N				
Quality class	A= Quality class 3 = 50 mati	ng cycles, B = Quality class 2 =	200 mating cycles, C = Quality	class 1 = 500 mating cycl			
Solder parameter	Prehe max. temperature	ating  Duration	max. Solder bath	dipping parameters max. Terminal			
Recommended wave-solder parameters	100 °C	30 s	temperature 260 °C	Immersion Time 5 s			

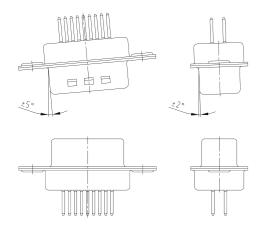
Tech



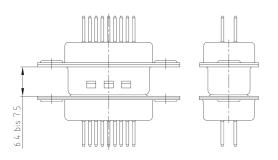
UTTER D CLID Commercial				
ILTER D-SUB CONNECTORS				
roduct spezification				
Basic material		UB Standard 37-, 50-position	Filter D-SUB 15-, 25-, 44-, 6	High Density 2-, 78-position
Contacts		Сорр	er alloy	
Contact plating		Gold o	ver nickel	
nsulator		PBT GF	UL 94 V-0	
hell		Steel tin plated (on r	equest: brass tin plated)	
echnical data				
ecnnical data				
pielectric with standing voltage	<ul> <li>Standard</li> <li>Standard (π-Filt</li> <li>High DWV</li> <li>Ultra high DW</li> <li>Ultra high DW</li> </ul>	707 VDC	• Standard	300 VDC
Vorking voltage	• Standard • High DWV • Ultra high DW		Standard  on (refer to DIN VDE 0110/IEC 664-1)	100 VDC*
'oltage surge 10/700 μs	<ul><li>Standard</li><li>High Voltage</li></ul>	300 V 500 V	• Standa	ard 300 V
urrent rating	7.5 A (UL) /	<sup>/</sup> 5 A (CSA,VDE)	3 A (UL,VDE	) 2.5 A (CSA)
Contact resistance	max. 1	0 mΩ vor Beanspruchung, Δ	R max. 10 mΩ nach Beansp	oruchung
			EC 60807-2	
nsulation resistance			1GΩ	
apacitor values	830 pF	<ul><li>± 20 % tolerance</li><li>± 20 % tolerance</li><li>± 20 % tolerance</li><li>other capaciton</li></ul>	$\begin{array}{c} 370 \text{ pF} \pm \ 20 \\ 830 \text{ pF} \pm \ 20 \end{array}$ values on request	0 % tolerance 0 % tolerance
perating temperature	-25 °C	to +105 °C	-25 °C t	o +85 °C
lumidity		40 °C / 85 % re	lative humidity/RH	
Nating and unmating forces	15-pos 25-pos 37-pos	i. ≤ 30 N i. ≤ 50 N i. ≤ 83 N i. ≤ 123 N i. ≤ 167 N	26-pos. 44-pos. 62-pos.	≤ 50 N ≤ 83 N ≤ 110 N ≤ 170 N ≤ 200 N
Quality class	A= Quality class 3 = 50 m	nating cycles, B = Quality class 2	= 200 mating cycles, C = Quality	class 1 = 500 mating cycles
	Preh max. temperature	neating Duration	max. Solder bath	ipping parameters max. Terminal
older parameter	max. temperature		temperature	Immersion Time

## Mating conditions

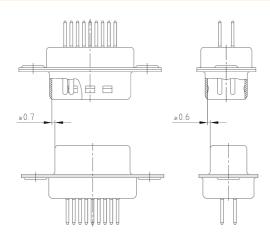
## Max. tilt angle for connector mating



### Range for safe contact

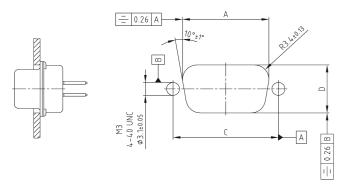


### Lock-in range



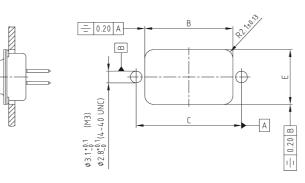
## Panel cut-out

### Back panel mounting



Shell size	No. of	poles	<b>A</b> ± 0.1	<b>B</b> ± 0.1	<b>C</b> ± 0,1	<b>D</b> ± 0.1	<b>E</b> ± 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

#### Front panel mounting

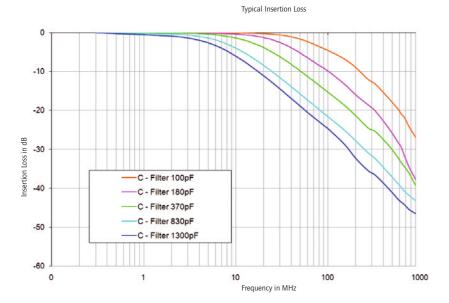


Technical specifications are subject to change without notice.

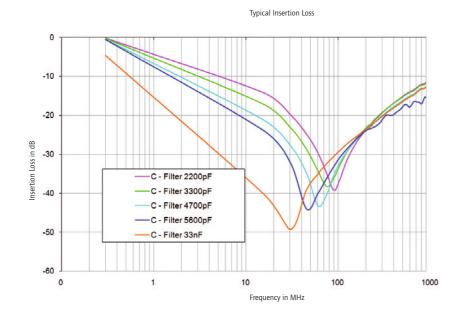
Downloaded from Arrow.com.

### Insertion loss

### C-Filter with planar filter technology



### C-Filter with chip technology

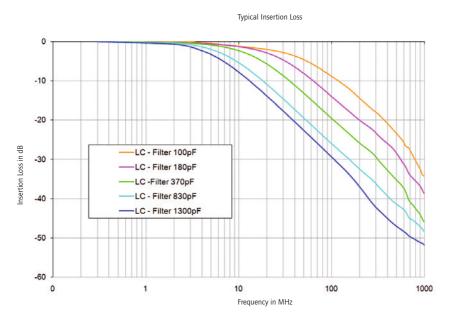


Technical specifications are subject to change without notice.

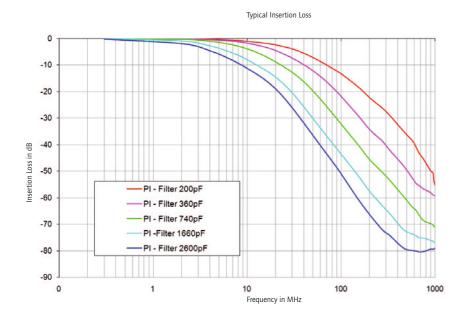


### Insertion loss

### LC-Filter with planar filter technology



### $\pi$ -Filter with planar filter technology



Technical specifications are subject to change without notice.

**CONEC** 3 | 103

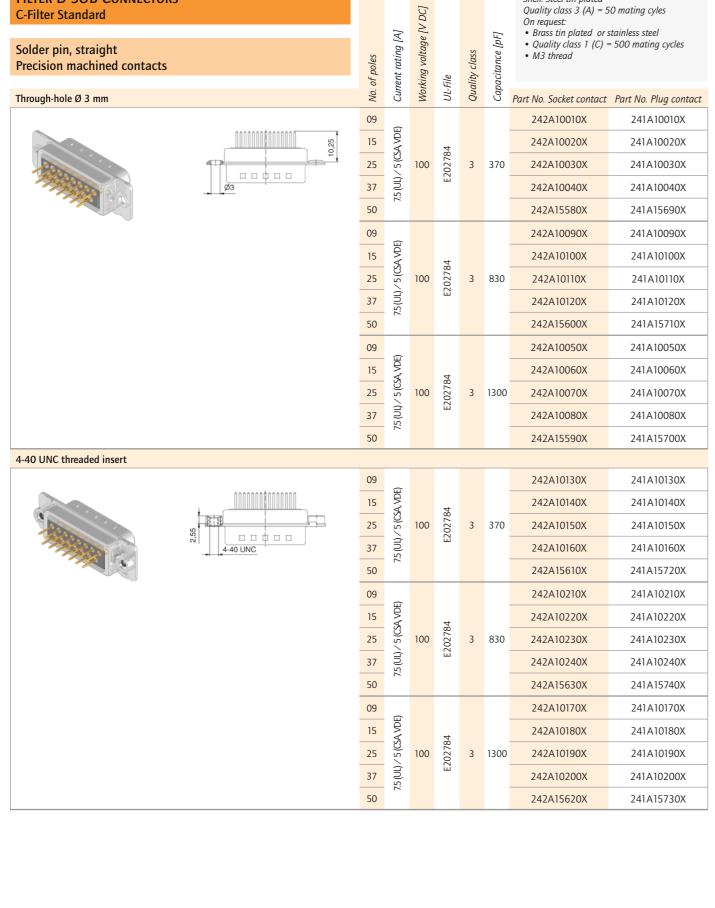


FILTER D-SUB CONNECTORS C-Filter Standard    Valuation   Valuation
09   15   25   100   25   37   100   25   37   100   25   37   37   37   37   37   37   37   3
09   15   25   100   25   37   100   25   37   100   25   37   25   37   25   37   25   37   25   37   25   37   27   37   27   37   37   37   37
09     15     25       25     100     830       25     242A26840X     241A26       25     242A26850X     241A26       242A26850X     241A26       242A26850X     241A26
09     15     25       25     100       37     25          37     280          25     242A26830X     241A26       242A26840X     241A26       242A26850X     241A26       242A26850X     241A26
09     15     25       25     100       37     25          37     280          25     242A26830X     241A26       242A26840X     241A26       242A26850X     241A26       242A26850X     241A26
09     15     25       25     100       37     25          37     280          25     242A26830X     241A26       242A26840X     241A26       242A26850X     241A26       242A26850X     241A26
15
09
15 § 242A26870X 241A26
09 15 25 25 37 100 25 31 300 242A26860X 241A26 242A26870X 241A26 242A26880X 241A26 242A26880X 241A26
37 K 242A26890X 241A26
4-40 UNC threaded insert
09 Q 242A26940X 241A27
09 15 25 100 8 3 370 242A26950X 241A27 242A26960X 241A27 242A26970X 241A27 242A26970X 241A27
25 S S 242A26960X 241A27
37 N 242A26970X 241A27
25 NO SE 3 370 242A26960X 241A27  09 SE 242A26980X 241A27
09 15 25 25 100 830 242A26980X 241A27 242A26990X 241A27 242A27000X 241A27
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
37 K 242A27010X 241A27
09
09
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
37 본 242A27050X 241A27



FILTER D-SUB CONNECTORS C-Filter Standard  Solder pin, straight Precision machined contacts		No. of poles	Current rating [A]	Working voltage [V DC]	a/	Quality class	Capacitance [pF]	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. o	Curre	Work	UL-File	Quali	Сара	Part No. Socket contact	Part No. Plug contact
		09						242A10010X	241A10010X
	10,25	15	A VDE		4			242A10020X	241A10020X
		25	/5(CS	100	E202784	3	370	242A10030X	241A10030X
	Ø3	37	7.5 (UL) / 5 (CSA, VDE)					242A10040X	241A10040X
		50	- 12					242A15580X	241A15690X
		09						242A10090X	241A10090X
		15	A,VDE		4			242A10100X	241A10100X
		25	/5(CS	100	E202784	3	830	242A10110X	241A10110X
		37	7.5 (UL) / 5 (CSA VDE)		Ξ			242A10120X	241A10120X
		50						242A15600X	241A15710X
		09						242A10050X	241A10050X
		15	7.5 (UL) / 5 (CSA, VDE)		4			242A10060X	241A10060X
		25	/5(CS	100	E202784	3	1300	242A10070X	241A10070X
		37	5 (UL)		Ξ			242A10080X	241A10080X
		50	7					242A15590X	241A15700X
4-40 UNC threaded insert									
		09	- <del>(j)</del>					242A10130X	241A10130X
		15	S, VD		84			242A10140X	241A10140X
	2,55	25	/ 5(0	100	E202784	3	370	242A10150X	241A10150X
	4-40 UNC	37	7.5 (UL) / 5 (CSA, VDE)		ш			242A10160X	241A10160X
		50						242A15610X	241A15720X
		09	<u> </u>					242A10210X	241A10210X
		15	7.5 (UL) / 5 (CSA, VDE)		34			242A10220X	241A10220X
		25	/5(C	100	E202784	3	830	242A10230X	241A10230X
		37	75 (UL)		ш			242A10240X	241A10240X
		50						242A15630X	241A15740X
		09	fir					242A10170X	241A10170X
		15	A, VDE		<b>4</b>			242A10180X	241A10180X
		25	/5(C	100	E202784	3	1300	242A10190X	241A10190X
		37	7.5 (UL) / 5 (CSA, VDE)		Ш			242A10200X	241A10200X
		50						242A15620X	241A15730X

**CONEC** 3 | 105 Downloaded from Arrow.com.



FILTER D-SUB CONNECTORS C-Filter Standard  Solder pin, straight Precision machined contacts		No. of poles	Current rating [A]	Working voltage [V DC]	je Je	Quality class	Capacitance [pF]	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. 0	Curre	Work	UL-File	Qual	Сара	Part No. Socket contact	Part No. Plug contact
		09						242A10370X	241A10370X
	2.9	15	25 (1n) 5.7 (20) 2 / (1n) 5.7		4			242A10380X	241A10380X
	4-40 UNC	25		100	E202784	3	370	242A10390X	241A10390X
		37			E			242A10400X	241A10400X
		50						242A15670X	241A15780X
		09						242A10450X	241A10450X
		15	A, VDE		4			242A10460X	241A10460X
		25	15 25 (27 AVDE)	100	E202784	3	830	242A10470X	241A10470X
		37			E			242A10480X	241A10480X
		50						242A15690X	241A15800X
		09						242A10410X	241A10410X
		15	7.5 (UL) / 5 (CSA, VDE)		4			242A10420X	241A10420X
		25	/5(CS	100	E202784	3	1300	242A10430X	241A10430X
		37	5(UL)		Ξ			242A10440X	241A10440X
		50						242A15680X	241A15790X
4-40 UNC front, threaded rear spacer									
		09	( <u>)</u>					242A10610X	241A10610X
	5, 9, 35	15	SA, VD		84			242A10620X	241A10620X
	413,1	25	)/5(0	100	E202784	3	370	242A10630X	241A10630X
	4-40 UNC Ø4	37	7.5 (UL) / 5 (CSA, VDE)		ш			242A10640X	241A10640X
		50						242A15730X	241A15840X
		09	(i)					242A10690X	241A10690X
		15	SA,VD		84			242A10700X	241A10700X
		25	/ 5(0	100	E202784	3	830	242A10710X	241A10710X
		37	7.5 (UL) / 5 (CSA, VDE)		ш			242A10720X	241A10720X
		50						242A15750X	241A15860X
		09	(i)					242A10650X	241A10650X
		15	SA, VDI		34	3	1300	242A10660X	241A10660X
		25	/5(C	100	E202784			242A10670X	241A10670X
		37	7.5 (UL) / 5 (CSA, VDE)					242A10680X	241A10680X
		50	.,,					242A15740X	241A15850X



FILTER D-SUB CONNECTORS C-Filter Standard  Solder pin, straight Precision machined contacts		No. of poles	Current rating [A]	Working voltage [V DC]	je.	Quality class	Capacitance [pF]	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. 0	Curre	Work	UL-File	Qual	Сара	Part No. Socket contact	Part No. Plug contact
		09						242A14980X	241A15090X
	6.01	15	A,VDE		4			242A14990X	241A15100X
		25	/ 5 (CS	100	E202784	3	370	242A15000X	241A15110X
	4-40 UNC	37	7.5 (UL) / 5 (CSA, VDE)		E2			242A15010X	241A15120X
		50	. 7.					242A15020X	241A15130X
		09						242A15080X	241A15190X
		15	A, VDE		4			242A15090X	241A15200X
		25	/5(G	100	E202784	3	830	242A15100X	241A15210X
		37	7.5 (UL) / 5 (CSA VDE)		E			242A15110X	241A15220X
		50	. 7.					242A15120X	241A15230X
		09						242A15030X	241A15140X
		15	7.5 (UL) / 5 (CSA, VDE)		4			242A15040X	241A15150X
		25	/5(CS	100	E202784	3	1300	242A15050X	241A15160X
		37	5(UI),		E			242A15060X	241A15170X
		50	. 7.					242A15070X	241A15180X
4-40 UNC front, threaded rear spacer cli	p for PCB 1.6 mm								
		09	a a					242A15280X	241A15390X
	10,3	15	S, W		84			242A15290X	241A15400X
Est State of the S		25	/5(0	100	E202784	3	370	242A15300X	241A15410X
	4-40 UNC Ø4	37	7.5 (UL) / 5 (CSA, VDE)		ш			242A15310X	241A15420X
		50	- 1					242A15320X	241A15430X
		09	· · · · · · · · · · · · · · · · · · ·					242A15380X	241A15490X
		15	SA, VDI		34			242A15390X	241A15500X
		25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	242A15400X	241A15510X
		37	.5 (UL)		ш			242A15410X	241A15520X
		50						242A15420X	241A15530X
		09						242A15330X	241A15440X
		15	A, VDE		4			242A15340X	241A15450X
		25	/5(CS	100	E202784	3	1300	242A15350X	241A15460X
		37	7.5 (UL) / 5 (CSA, VDE)		E2			242A15360X	241A15470X
		50	7.					242A15370X	241A15480X

**CONEC** 3 | 107



FILTER D-SUB CONNECTORS C-Filter Standard  Solder pin, angled, .318"/7.19 mm Precision machined contacts, metal bracket		of poles	No. of poles Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	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. e						Part No. Socket contact	Part No. Plug contact
	8 5 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	09	/DE)	75 (UL) / 5 (CSA, VDE)	E202784	3	370	242A12340X	241A12320X
		15	(CSA)					242A12350X	241A12330X
		25	JL) / 5					242A12360X	241A12340X
		37	75 (1					242A12370X	241A12350X
	3,3 6,35	09	DE)	7.5 (UL) / 5 (CSA YDE)	E202784	3	830	242A12420X	241A12400X
		15	(CSA, \					242A12430X	241A12410X
		25	JL) / 5					242A12440X	241A12420X
		37	7.5(					242A12450X	241A12430X
		09	DE)					242A12380X	241A12360X
		15	(CSA, V	784			242A12390X	241A12370X	
		25	11) / 5	7.5 (UL) / 5 (CSA, VDE)	E202784	3	1300	242A12400X	241A12380X
		37	7.5 (L					242A12410X	241A12390X
Clip for PCB 1.6 mm, 4-40 UNC threaded insert									
	4-40 UNC	09	VDE)	(DE)				242A17740X	241A16140X
		15	7.5 (UL) / 5 (CSA VDE)	E202784	3	370	242A17750X	241A16150X	
		25	JI) / 5	100	E20)	3	370	242A17760X	241A16160X
		37	7.5 (					242A17770X	241A16170X
	3,3 6,35	09	7.5 (U1) / 5 (CSA, VDE)	784	2	020	242A17700X	241A16100X	
		15					242A17710X	241A16110X	
		25	JU/5	0)5/(1/	E202784	3	830	242A17720X	241A16120X
		37	7.5 (1					242A17730X	241A16130X
		09	(JQC)					242A17660X	241A16060X
		15	11) / 5 (CSA, VDE)	100	E202784	3	1300	242A17670X	241A16070X
		25		100				242A17680X	241A16080X

242A17690X

241A16090X



# ating [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 FILTER D-SUB CONNECTORS C-Filter Standard Solder pin, angled, .370"/9.4 mm

**CONEC** 3 | 109 Downloaded from Arrow.com.

Precision machined contacts, pla	astic bracket	No. of pole	Current ra	Working ve	a).	Quality clo	Capacitan		
Grounding strap, through-hole Ø 3.4 mn	1	No. 0	Curre	Work	UL-File	Qual	Сарс	Part No. Socket contact	Part No. Plug contact
		09	Œ)					242A10970X	241A10970X
		15	7.5 (UL) / 5 (CSA, VDE)	100	784	2	270	242A10980X	241A10980X
		25	11)/5	100	E202784	3	370	242A10990X	241A10990X
	Ø3,4	37	7.5 (1					242A11000X	241A11000X
		09	(DE)					242A11050X	241A11050X
	3,3 7,4	15	(CSA)	100	E202784	3	020	242A11060X	241A11060X
	**	25	7.5 (UL) / 5 (CSA, VDE)	100			830	242A11070X	241A11070X
								242A11080X	241A11080X
		09	/DE)					242A11010X	241A11010X
		15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A11020X	241A11020X
	25	JL) / 5	(UL) / E	E202	3	1300	242A11030X	241A11030X	
		37	7.5 (1					242A11040X	241A11040X
Grounding strap, 4-40 UNC threaded in	sert								
	-							242A11090X	241A11090X
	633.2 10.7 14.6	15	5 (CSA	7.5 (Ut) / 5 (CSA VDE)	E202784	3	370	242A11100X	241A11100X
		25	/(In)		E20			242A11110X	241A11110X
	4-40 UNC	37	7.5					242A11120X	241A11120X
		09	VDE)					242A11170X	241A11170X
		15	5 (CSA)	100	E202784	3	830	242A11180X	241A11180X
	3,3 7,4	25	7.5 (UL) / 5 (CSA, VDE)		E20			242A11190X	241A11190X
	4.6	37	7.5					242A11200X	241A11200X
		09	VDE)					242A11130X	241A11130X
		15	(C.S.)	100	E202784	3	1300	242A11140X	241A11140X
		25	7.5 (UL) / 5 (CSA, VDE)	100	E20	3	1300	242A11150X	241A11150X
		37	7.5 (					242A11160X	241A11160X

# 

uly		15			4			242A12790X
		25	\	100	20278	3	830	242A12800X
		37	:5(UL)		Ξ			242A12810X
		50						242A24000X
		09						242A12740X
		15			4			242A12750X
		25	\	100	20278	3	1300	242A12760X
		37	5 (UL)		E			242A12770X
		4.	15 25 37 50 09 15 25	15 VYS) 5 (In) 52 37 50 09 (30 VS) 5 (In)	15 V V SS) 5 (In) 52 100 25 100 27 10	15 25 25 100 FE 2023 84 100 FE 2023	15 25 37 50 100 15 25 25 100 100 25 25 100 37 37 37 37 37 37 37 37 37 37 37 37 37	15 25 37 50 100 15 27 100 15 25 100 15 25 100 15 25 100 15 25 100 15 15 16 17 18 18 18 18 18 18 18 18 18 18

50

Working voltage [V DC]

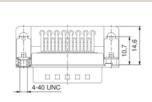
100

UL-File Quality class

3 370

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







09						242A12820X	241A12800X
15	A, VDE		4			242A12830X	241A12810X
25	/5(CS	100	:202784	3	370	242A12840X	241A12820X
37	7.5 (UL) / 5 (CSA, VDE)		E			242A12850X	241A12830X
50	7					242A24030X	241A24130X
09						242A12900X	241A12880X
15	7.5 (UL) / 5 (CSA, VDE)		4			242A12910X	241A12890X
25	/5(CS	100	5202784	3	830	242A12920X	241A12900X
37	.5 (UL)		Ξ			242A12930X	241A12910X
50	7					242A24040X	241A24140X
09						242A12860X	241A12840X
15	A VDE		4			242A12870X	241A12850X
25	/5(C3	100	E202784	3	1300	242A12880X	241A12860X
37	7.5 (UL) / 5 (CSA, VDE)		Ë			242A12890X	241A12870X
50	17					242A24050X	241A24150X

Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles

Brass tin plated or stainless steel

• Quality class 1 (C) = 500 mating cycles

Part No. Socket contact Part No. Plug contact

241A12680X

241A12690X

241A12700X

241A12710X

241A24090X

241A12760X

241A12770X 241A12780X 241A12790X 241A24100X 241A12720X 241A12730X 241A12740X 241A12750X

241A24110X

On request:

• M3 thread

242A12700X

242A12710X

242A12720X

242A12730X

242A23990X

242A12780X

242A24010X



# 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 FILTER D-SUB CONNECTORS rating [A] g voltage [V DC] C-Filter Standard Solder pin, angled, .370"/9.4 mm Precision machined contacts, metal bracket

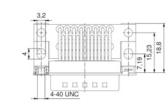
**CONEC** 3 | 111 Downloaded from Arrow.com.

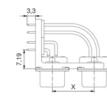
Treessen macinioa contacts, mete	No. of po	Current	Working	UL-File	Quality	Capacit			
Clip for PCB 1.6 mm, 4-40 UNC threaded in	1sert	No.	Cur	Wo	nr-	Onc	Cap	Part No. Socket contact	Part No. Plug contact
		09	(ii)					242A21450X	241A21600X
		15	SA, VDI		4			242A21460X	241A21610X
	213	25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A21470X	241A21620X
	4-40 UNC	37	.5 (UL)		Ш			242A21480X	241A21630X
		50						242A27230X	241A27330X
		09	(ii)					242A21490X	241A21640X
	3,2 7,5	15	SA, VDI		34			242A21500X	241A21650X
		25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	242A21510X	241A21660X
	4,0	37	:5(UL)		Ш			242A21520X	241A21670X
		50	1~					242A27240X	241A27340X
		09						242A21530X	241A21680X
		15	A, VDE		4			242A21540X	241A21690X
		25	/5(C	100	E202784	3	1300	242A21550X	241A21700X
		37	7.5 (UL) / 5 (CSA, VDE)		ы			242A21560X	241A21710X
		50						242A27250X	241A27350X
Clip for PCB 1.6 mm, 4-40 UNC front space	er								
		09	7.5 (UL) / 5 (CSA, VDE)					242A22440X	241A22540X
	4-40 UNC Ø4	15		100	34	3	370	242A22450X	241A22550X
		25			E202784			242A22460X	241A22560X
		37						242A22470X	241A22570X
		50						242A27310X	241A27410X
		09	(i)					242A22480X	241A22580X
	3,2 7,5	15	(UL) / 5 (CSA, VDE)		48			242A22490X	241A22590X
		25	/5(C	100	E202784	3	830	242A22500X	241A22600X
	4.6	37	7.5 (UL)		ш			242A22510X	241A22610X
		50						242A27320X	241A27420X
		09	(ii)					242A22520X	241A22620X
		15	7.5 (UL) / 5 (CSA, VDE)		34			242A22530X	241A22630X
		25	/5(C	100	E202784	3	1300	242A22540X	241A22640X
		37	75 (UL)		ш			242A22550X	241A22650X
		50						242A27330X	241A27430X

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

### 4-40 UNC threaded insert







37 25/25 15/15 09/09 37/37 25/25 15/15 09/09 37/37 25/25 15/15 09/09 37/37 25/25 15/15 09/09 37/37 25/25 15/15 09/09 No. of poles	Current rating [A]	Working voltage [V DC]	ile	Quality class	Capacitance [pF]	Connector spacing X = [inches, 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.	Curr	Wor	UL-File	Qua	Сар	Con	Part No.	
60/60	E)						241A14130X	
15/15	(CSA, VE	100	202784	2	270	.625, 15.88	241A14140X	
25/25	7.5 (UL) / 5 (CSA, VDE)	100	E202	3	370	.62	241A14150X	
37/37	7.5					-	241A14160X	
60/60	E)						241A14210X	
15/15	(CSA, VD	100	784	2	020	88	241A14220X	
25/25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	.625,	241A14230X	
37/37	7,5						241A14240X	
60/60	E)						241A14170X	
15/15	7.5 (UL) / 5 (CSA, VDE)	100	3 1300		1300	25, .88	241A14180X	
25/25	2 (UL) / 5	100	E20,	3	.500		9.5	241A14190X
37/37	7.						241A14200X	
60/60	E)						241A14610X	
15/15	(CSA, VE	100	5202784	3	370	.750, 19.05	241A14620X	
25/25	7.5 (UL) / 5 (CSA, VDE)	100	E20	3	370	7.	241A14630X	
37/37	7.						241A14640X	
60/60	)E)					_	241A14690X	
15/15	7.5 (UL) / 5 (CSA, VDE)	100	202784	3	830	750, 19.05	241A14700X	
25/25	2 (UL) / !	100	E20	J	030	7.	241A14710X	
37/37	7.						241A14720X	
37/37 25/25 15/15 09/09 37/37 25/25 15/15 09/09 37/	)E)						241A14650X	
15/15	7.5 (UL) / 5 (CSA, VDE)	100	5202784	3	1300	750,	241A14660X	
25/25	:2 (UL) / !	.50	E20	j		7.	241A14670X	
37/37	7						241A14680X	

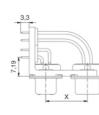


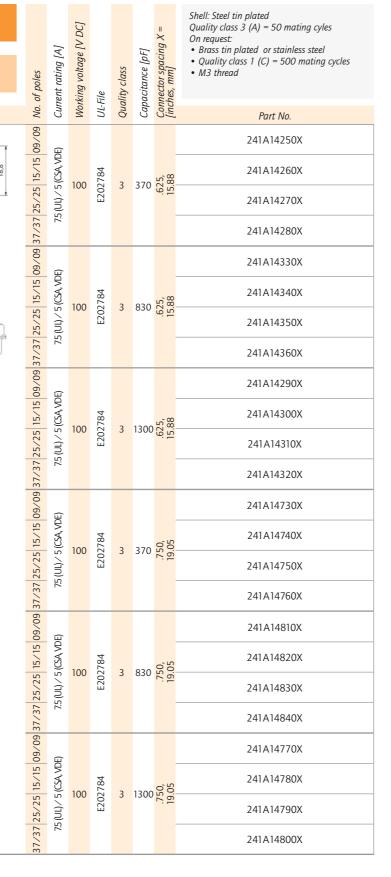
Plug upper - Socket bottom Solder pin, angled, precision machined contacts

### 4-40 UNC threaded insert



3,2	annainan		
			,23
4		492	15,23

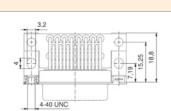


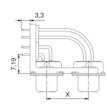


Socket upper - Socket bottom Solder pin, angled, precision machined contacts

### 4-40 UNC threaded insert







No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Quality class 3 (A) = 50 mating cyles On request: • Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread  Part No.
							242A14020X
37/37 25/25 15/15 09/09 37/37 25/25 15/15 09/09 37/37 25/25 15/15 09/09 37/37 25/25 15/15 09/09 37/37 25/25 15/15 09/09 37/37 25/25 15/15 09/09	7.5 (UL) / 5 (CSA, VDE)	100	784	2	270	.5, 88	242A14030X
25/25	5 (UU) 7 5	100	E202784	3	3/0	.625,	242A14040X
37/37	7.						242A14050X
60/60	Œ)						242A14100X
15/15	CSA, VI	100	5202784	3	830	.625, 15.88	242A14110X
25/25	7.5 (UL) / 5 (CSA, VDE)	100	E20.	J	030	.6.	242A14120X
37/37	7.						242A14130X
60/60	)E)						242A14060X
15/15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	25,	242A14070X
25/25	2 (UL) / !	100	E20	3	1300	.6. 7.	242A14080X
37/37	7.						242A14090X
60/60	Œ)						242A14500X
15/15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	242A14510X
25/25	2 (UL) / !	.00	E20	Ü	0.0	7.	242A14520X
37/37							242A14530X
60/60	OE)						242A14580X
15/15	7.5 (UL) / 5 (CSA, VDE)	100	5202784	3	830	750,	242A14590X
25/25	2 (UL) / !	.00	E20	Ü	000	7.	242A14600X
37/37							242A14610X
60/60	OE)						242A14540X
15/15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	750,	242A14550X
25/25	.2 (UL) / !		E20		. 33	7.	242A14560X
37/37	7						242A14570X



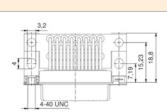
Steel tin plated ity class 3 (A) = 50 mating cyles quest: ass tin plated or stainless steel ality class 1 (C) = 500 mating cycles thread	
Part No.	
242A14020X	
242A14030X	
242A14040X	
242A14050X	
242A14100X	
242A14110X	
242A14120X	
242A14130X	
242A14060X	
242A14070X	
242A14080X	
242A14090X	
242A14500X	
242A14510X	
242A14520X	
242A14530X	
242A14580X	
242A14590X	
242A14600X	
242A14610X	
242A14540X	
242A14550X	
242A14560X	
242A14570X	

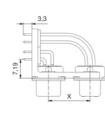
Socket upper - Plug buttom

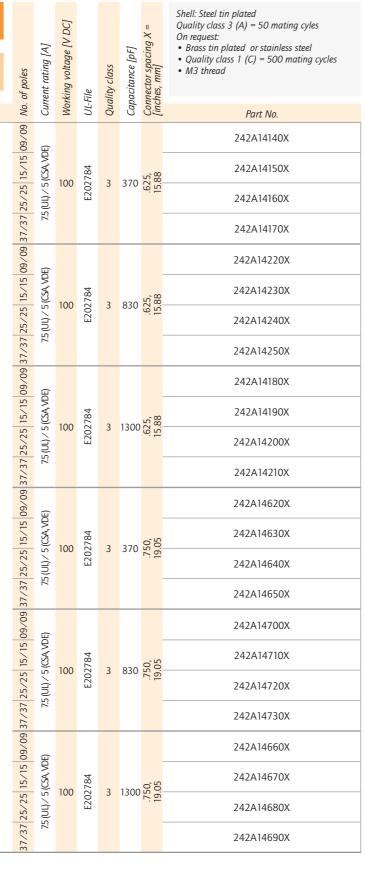
Solder pin, angled, precision machined contacts

### 4-40 UNC threaded insert









FILTER D-SUB CONNECTORS LC-Filter Standard			-	[v pc]			_	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s	
Solder pin, angled, .318"/7.19 Precision machined contacts, m	No. of poles	Current rating [A]	Working voltage [V DC]	ile	Quality class	Capacitance [pF]	• Quality class 1 (C) = • M3 thread		
4-40 UNC threaded insert		No. o	Curr	Work	UL-File	Qua	Сар	Part No. Socket contact	Part No. Plug contact
		09	DE)					242A24700X	241A24800X
		15	(CSA, V	100	E202784	2	270	242A24710X	241A24810X
	83.18	09 15 25 (IU) / 5 (CSA, VDE) 25 25 37	3	370	242A24720X	241A24820X			
	4-40 UNC	37	75 (1					242A24730X	241A24830X
		09	DE)					242A24740X	241A24840X
TOP	3,3 6,35	15	(CSA)	100	E202784	2	020	242A24750X	241A24850X
	25	JL) / 5	7.5 (UL) / 5 (CSA VDE)	E202	3	830	242A24760X	241A24860X	
	12	37	7.5 (1					242A24770X	241A24870X
		09	(JQF)					242A24780X	241A24880X
		15	7.5 (UL) / 5 (CSA, VDE)	100	5202784	2	1200	242A24790X	241A24890X
		25	JL) / 5	100	E202	3	1300	242A24800X	241A24900X
		37	7.5 (1					242A24810X	241A24910X
Clip for PCB 1.6 mm, 4-40 UNC threade	ed insert								
		09	VDE)					242A24860X	241A24960X
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	15	5 (CSA	100	E202784	3	370	242A24870X	241A24970X
		25	7.5 (UL) / 5 (CSA, VDE)		E20			242A24880X	241A24980X
SAME OF THE PARTY	4-40 UNC	37	7.5					242A24890X	241A24990X
		09	VDE)					242A24900X	241A25000X
1		15	UL) / 5 (CSA, VDE)	100	E202784	3	830	242A24910X	241A25010X
	3,3 6,35	25		.00	E20	J	000	242A24920X	241A25020X
	61.	37	7.5 (					242A24930X	241A25030X
		09	VDE)					242A24940X	241A25040X
							1300	242A24950X	241A25050X
		25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1500	242A24960X	241A25060X
		37	75 (					242A24970X	241A25070X



# Shall-Steel tin plated

**CONEC** 3 | 117

Solder pin, angled, .370"/9.4 mm Precision machined contacts, metal bracket				Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Shell: Steel tin plated Quality class 3 (A) = 5 On request:  Brass tin plated or s Quality class 1 (C) = M3 thread	tainless steel 500 mating cycles
4-40 UNC threaded insert		No. of poles	Current rating [A]	Ž	Š	ŏ	Ö	Part No. Socket contact	
	(000000000	09	7.5 (UL) / 5 (CSA, VDE)					242A25020X	241A25120X
	7.01	15	.5 (CS/	100	E202784	3	370	242A25030X	241A25130X
		25	(UL)		E2(			242A25040X	241A25140X
	4-40 UNC	37	7.5					242A25050X	241A25150X
		09	VDE)					242A25060X	241A25160X
17 (1)		15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	242A25070X	241A25170X
	3,2 7,5	25	(nr) \		E20			242A25080X	241A25180X
	4-1	37	7.5					242A25090X	241A25190X
	4	09	VDE)					242A25100X	241A25200X
		15	(CSA	100	E202784	3	1300	242A25110X	241A25210X
		25	7.5 (UL) / 5 (CSA, VDE)	100	E20	5	1500	242A25120X	241A25220X
		37	7.5 (					242A25130X	241A25230X
Clip for PCB 1.6 mm, 4-40 UNC threade	ed insert								
		09	VDE)					242A25340X	241A25440X
	⊕ (14444444) ⊕ 1/2	15	5 (CSA	100	E202784	3	370	242A25350X	241A25450X
	10.7	25	7.5 (UL) / 5 (CSA, VDE)		E20			242A25360X	241A25460X
	4-40 UNC	37	7.5 (					242A25370X	241A25470X
		09	VDE)					242A25380X	241A25480X
The state of the s		15	(CS)	100	E202784	3	830	242A25390X	241A25490X
	3,2 7,5	25	7.5 (UL) / 5 (CSA, VDE)	100	E202	3	030	242A25400X	241A25500X
		37	7.5 (					242A25410X	241A25510X
	4	09	(JQE)					242A25420X	241A25520X
		15	(CSA, V	100	784	2	1200	242A25430X	241A25530X
		25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A25440X	241A25540X
		37	75 (L					242A25450X	241A25550X

FILTER D-SUB CONNECTORS π-Filter Standard  Solder cup Precision machined contacts, A	No. of poles Current rating [A]	Working voltage [V DC]	ile	Quality class	Capacitance [pF]	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. 0	Curre	Work	UL-File	Qual	Сарс	Part No. Socket contact	Part No. Plug contact
		09	DE)					242A29020X	241A29120X
	[НАНАНАН]	15	(CSA, V		784		2x	242A29030X	241A29130X
		25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A29040X	241A29140X
Salation is	Ø3							242A29050X	241A29150X
	-	09	DE)					242A29060X	241A29160X
		15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	2	2x	242A29070X	241A29170X
		25	JL) / 5	))s /(In	E202	3	830	242A29080X	241A29180X
		37	7.5(1					242A29090X	241A29190X
		09	DE)					242A29100X	241A29200X
		15	(CSA,V	100	784		2x	242A29110X	241A29210X
		25	7.5 (JU) / 5(CSA, VDE)	E202784	3	1300	242A29120X	241A29220X	
		37	7.5 (1					242A29130X	241A29230X
4-40 UNC threaded insert									
		09	VDE)					242A29180X	241A29280X
	<u>ГРИНИЧИН</u>	15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x	242A29190X	241A29290X
		25	nt)/i	100	E20	3	370	242A29200X	241A29300X
A CONTRACTOR OF THE PARTY OF TH	99 2 4-40 UNC	37	75(					242A29210X	241A29310X
		09	VDE)					242A29220X	241A29320X
		15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x	242A29230X	241A29330X
		25	JI) / 5	100	E202	3	830	242A29240X	241A29340X
		37	7.5 (					242A29250X	241A29350X
		09	DE)					242A29260X	241A29360X
		15	L) / 5 (CSA, VDE)	100	784	2	2x	242A29270X	241A29370X
		25	11)/5	100	E202784	3	1300	242A29280X	241A29380X

242A29290X

241A29390X



FILTER D-SUB CONNECTORS  π-Filter Standard  Solder pin, straight Precision machined contacts	No. of poles	Current rating [A]	Working voltage [V DC]	ile	Quality class	Capacitance [pF]	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	stainless steel
4-40 UNC threaded rear spacer clip for PCB 1.6 mm	No. 6	Curr	Work	UL-File	Ona	Сар	Part No. Socket contact	Part No. Plug contact
	09	VDE)					242A26300X	241A26400X
	15	\$5	100	E202784	3	2x	242A26310X	241A26410X
13.8	25	7.5 (UL) / 5 (CSA VDE)	E202	3	370	242A26320X	241A26420X	
	37	7.5 (U	7.5 (L				242A26330X	241A26430X
4-40 UNC	09	VDE)					242A26340X	241A26440X
	15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x	242A26350X	241A26450X
	25	1)/5	100	E202	3	830	242A26360X	241A26460X
	37	7.5 (U					242A26370X	241A26470X
	09	VDE)					242A26380X	241A26480X
		(CSA)	100	784		2x	242A26390X	241A26490X
		7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A26400X	241A26500X
	37	7.5 (U					242A26410X	241A26510X

			$\subseteq$	100	_	_	2X	2 12/120000/1	2 117 120 10071
		25	75 (UL) / 5 (C	100	E2027	3	1300	242A26400X	241A26500X
		37	7.5 (U					242A26410X	241A26510X
FILTER D-SUB CONNECTORS π-Filter Standard Solder pin, angled, .590"/14.1 Precision machined contacts, n	9 mm	No. of poles	Current rating [A]	Working voltage [V DC]		r class	Capacitance [pF]	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	tainless steel
4-40 UNC threaded insert			Curren	Workin	UL-File	Quality class	Сарасі	Part No. Socket contact	Part No. Plug conta
		09	DE)					242A25980X	241A26080X
		15	7.5 (UL) / 5 (CSA, VDE)		784		2x	242A25990X	241A26090X
		25	)/2(	100	E202784	3	370	242A26000X	241A26100X
1	7.00	37	7.5 (UI		_			242A26010X	241A26110X
	4-40 UNC	09						242A26020X	241A26120X
		15	7.5 (UL) / 5 (CSA, VDE)		784		2x	242A26030X	241A26130X
11/14/		25	)/2(	100	E202784	3	830	242A26040X	241A26140X
	3,3 6,35	37	7.5 (UI					242A26050X	241A26150X
	14,19	09						242A26060X	241A26160X
	4	15	(CSA)		784		2x	242A26070X	241A26170X
		25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A26080X	241A26180X
		37	7.5 (U					242A26090X	241A26190X
lip for PCB 1.6 mm, 4-40 UNC thread	ed insert								
		09	VDE)					242A26140X	241A26240X
		15	(CS	100	E202784	3	2x	242A26150X	241A26250X
	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	25	7.5 (UL) / 5 (CSA VDE)	100	E202	3	370	242A26160X	241A26260X
		37	7.5 (L					242A26170X	241A26270X
	4-40 UNC	09	VDE)					242A26180X	241A26280X
		15	5 (CSA, VDE)	100	2784	3	2x	242A26190X	241A26290X
· III		25	\	100	E202784	3	830	242A26200X	241A26300X
	3,3 6,35	37	(10) 5:2					242A26210X	241A26310X
		09	VDE)					242A26220X	241A26320X
	61,19	15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x	242A26230X	241A26330X
		25	11) / 5	100	E202	3	1300	242A26240X	241A26340X
		37	7.5 (L					242A26250X	241A26350X

FILTER D-SUB CONNECTOR C-Filter High Density  Solder pin, straight Precision machined contacts	RS	No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	tainless steel 500 mating cycles
Through-hole Ø 3 mm		15			7	-	0	Part No. Socket contact 242A17980X	241A16380X
	25	26	2.5 (CS		84			242A17990X	241A16390X
	6	44	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A18000X	241A16400X
MANA S	Ø3	62	3 (UL, \		ш			242A18010X	241A16410X
		15						242A18020X	241A16420X
		26	2.5 (CS		84			242A18030X	241A16430X
		44	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	242A18040X	241A16440X
		62	3 (UL, \		ш			242A18050X	241A16450X
4-40 UNC threaded insert								2 12/110000/1	2
		15	Ŕ					242A18060X	241A16460X
		26	3 (UL, VDE) / 2.5 (CSA)		784			242A18070X	241A16470X
	2.55	44	,VDE),	100	E202784	E2027	370	242A18080X	241A16480X
Marie Control	4-40 UNC	62	3 (UL				242A18090X	241A16490X	
Many C		15	2A)	CSA)				242A18100X	241A16500X
		26	3 (UL, VDE) / 2.5 (CSA)	100	784		020	242A18110X	241A16510X
		44	, VDE)	100	E202784	3	830	242A18120X	241A16520X
		62	3(UI					242A18130X	241A16530X
4-40 UNC threaded rear spacer									
	n o o o o o o o o o o o o o o o	15	(CSA)					242A18220X	241A16620X
	3,6	26	3 (UL, VDE) / 2.5 (CSA)	100	02784	3	370	242A18230X	241A16630X
C. Marine		44	J, VDE		E20			242A18240X	241A16640X
	4-40 UNC	62	3(L					242A18250X	241A16650X
		15	(CSA)					242A18260X	241A16660X
		26	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	242A18270X	241A16670X
		44	JI, VDE		E20			242A18280X	241A16680X
		62	3 (					242A18290X	241A16690X
4-40 UNC front, threaded rear space	er								
	7,000,000,000,000,000	15	5 (CSA)		<del>c+</del>			242A18380X	241A16780X
	9.6	26	E) / 2.5	100	E202784	3	370	242A18390X	241A16790X
William .		44	3 (UL, VDE) / 2.5 (CSA)		E2(			242A18400X	241A16800X
THE STATE OF THE S	4-40 UNC Ø4	62						242A18410X	241A16810X
		15	(CSA)					242A18420X	241A16820X
		26	3/25	100 2784	E202784	3 830	242A18430X	241A16830X	
		44	/(3Q\ 1\)	100 11, VDE)	E202	E202	030	242A18440X	241A16840X
		62	3(1					242A18450X	241A16850X



FILTER D-SUB CONNECTORS C-Filter High Density  Solder pin, straight Precision machined contacts		No. of poles	Current rating [A]	Working voltage [V DC]	Je	Quality class	Capacitance [pF]	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	stainless steel
4-40 UNC threaded rear spacer clip for PCB 1.6 mm		No. o	Curre	Work	UL-File	Qual	Сарс	Part No. Socket contact	Part No. Plug contact
		15	Ŕ					242A20610X	241A20760X
8.4		26	3 (UL, VDE) / 2.5 (CSA)	100	784	-	270	242A20620X	241A20770X
R   R		44	, VDE)	100	E202784	3	370	242A20630X	241A20780X
4-40 UI	NC TO TO	62 5	3 (UL					242A20640X	241A20790X
			15 <b>S</b>					242A20650X	241A20800X
		26	3 (UL, VDE) / 2.5 (CSA)	100	784	2	020	242A20660X	241A20810X
		44	, VDE)	100	E202784	3	830	242A20670X	241A20820X
		62	3(01					242A20680X	241A20830X
-40 UNC front, threaded rear spacer clip for PCB 1.6 mm									
		15	(SA)					242A20770X	241A20920X
8.00		26	3 (UL, VDE) / 2.5 (CSA)	100	E202784	2	270	242A20780X	241A20930X
177		44	, VDE)	100	E202	3	370	242A20790X	241A20940X
	П Ф П П NC Ø4	62	3 (UL					242A20800X	241A20950X
	4-40 UNC Ø4		3 (UL, VDE) / 2.5 (CSA)				242A20810X	241A20960X	
				100	E202784	3	830	242A20820X	241A20970X
		44	,VDE)	100	E202	3	630	242A20830X	241A20980X
			3 (01,				242A20840X	241A20990X	
C-Filter High Density  Solder pin, angled, .350"/7.98 mm		f poles	nt rating [A]	ing voltage [V DC]	le	ity class	ıcitance [pF]	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	stainless steel
Solder pin, angled, .350"/7.98 mm Precision machined contacts, plastic bracket		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	stainless steel = 500 mating cycles
Solder pin, angled, .350"/7.98 mm Precision machined contacts, plastic bracket		In No. of poles	Current rating	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) =	stainless steel = 500 mating cycles
colder pin, angled, .350"/7.98 mm Precision machined contacts, plastic bracket Frounding strap, 4-40 UNC threaded insert			Current rating					Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread  Part No. Socket contact	stainless steel = 500 mating cycles Part No. Plug contac
older pin, angled, .350"/7.98 mm recision machined contacts, plastic bracket	16.44	15	Current rating	00 Working voltage [V DC]	E202784 UL-File	ω Quality class	Capacitance [pF]	Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread  Part No. Socket contact 242A18690X	stainless steel = 500 mating cycles Part No. Plug contac 241A17100X
older pin, angled, .350"/7.98 mm recision machined contacts, plastic bracket rounding strap, 4-40 UNC threaded insert	10.55	15 26	3 (UL, VDE) / 2.5 (CSA)   Current rating [A]					Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread  Part No. Socket contact 242A18690X 242A18700X	Part No. Plug contact 241A17110X
older pin, angled, .350"/7.98 mm recision machined contacts, plastic bracket rounding strap, 4-40 UNC threaded insert	3.3 6.3	15 26 44 62	3 (UL, VDE) / 2.5 (CSA) Current rating					Quality class 3 (A) = 5 On request:  Brass tin plated or s Quality class 1 (C) =  M3 thread  Part No. Socket contact 242A18690X 242A18700X 242A18710X	Part No. Plug contaction 241A17110X 241A17120X
colder pin, angled, .350"/7.98 mm recision machined contacts, plastic bracket frounding strap, 4-40 UNC threaded insert	3,3 6,3	15 26 44 62 15	3 (UL, VDE) / 2.5 (CSA) Current rating	100	E202784	3	370	Quality class 3 (A) = 5 On request:  Brass tin plated or s Quality class 1 (C) =  M3 thread  Part No. Socket contact 242A18690X 242A18710X 242A18720X	Part No. Plug contact 241A171100X 241A17120X 241A17130X
colder pin, angled, .350"/7.98 mm recision machined contacts, plastic bracket frounding strap, 4-40 UNC threaded insert	3,3 6,3	15 26 44 62	3 (UL, VDE) / 2.5 (CSA) Current rating		E202784			Quality class 3 (A) = 5 On request:  Brass tin plated or s Quality class 1 (C) =  M3 thread  Part No. Socket contact 242A18690X 242A18700X 242A18710X 242A18720X 242A18730X	Part No. Plug contact 241A171100X 241A17120X 241A17130X 241A17140X
colder pin, angled, .350"/7.98 mm recision machined contacts, plastic bracket frounding strap, 4-40 UNC threaded insert	3.3	15 26 44 62 15 26	Current rating	100		3	370	Quality class 3 (A) = 5 On request:  Brass tin plated or s Quality class 1 (C) =  M3 thread  Part No. Socket contact 242A18690X 242A18710X 242A18720X 242A18730X 242A18730X	Part No. Plug contact 241A17110X 241A17120X 241A17130X 241A17140X 241A17150X
Folder pin, angled, .350"/7.98 mm Precision machined contacts, plastic bracket brounding strap, 4-40 UNC threaded insert	3,3	15 26 44 62 15 26 44	3 (UL, VDE) / 2.5 (CSA) Current rating	100	E202784	3	370	Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread  Part No. Socket contact 242A18690X 242A18710X 242A18720X 242A18730X 242A18730X 242A18740X 242A18750X	Part No. Plug contact 241A17100X 241A17120X 241A17130X 241A17140X 241A17150X 241A17150X
older pin, angled, .350"/7.98 mm recision machined contacts, plastic bracket rounding strap, 4-40 UNC threaded insert	23 23 23 23 23 23 23 23 23 23 23 23 23 2	15 26 44 62 15 26 44	3 (UL, VDE) / 2.5 (CSA) 3 (UL, VDE) / 2.5 (CSA) Current rating	100	E202784	3	370	Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread  Part No. Socket contact 242A18690X 242A18710X 242A18720X 242A18730X 242A18730X 242A18740X 242A18750X	Part No. Plug contact 241A171100X 241A17120X 241A17130X 241A17140X 241A17150X 241A17150X
Folder pin, angled, .350"/7.98 mm Precision machined contacts, plastic bracket brounding strap, 4-40 UNC threaded insert	3.3 6.3 F.	15 26 44 62 15 26 44 62	3 (UL, VDE) / 2.5 (CSA) 3 (UL, VDE) / 2.5 (CSA) Current rating	100	E202784 E202784	3	830	Quality class 3 (A) = 5 On request:  Brass tin plated or s Quality class 1 (C) =  M3 thread  Part No. Socket contact 242A18690X 242A18710X 242A18720X 242A18730X 242A18740X 242A18750X 242A18750X 242A18750X	Part No. Plug contact 241A171100X 241A17120X 241A17130X 241A17140X 241A17150X 241A17160X 241A17170X
Folder pin, angled, .350"/7.98 mm Precision machined contacts, plastic bracket brounding strap, 4-40 UNC threaded insert	7.98 (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C)	15 26 44 62 15 26 44 62	3 (UL, VDE) / 2.5 (CSA) 3 (UL, VDE) / 2.5 (CSA) Current rating	100	E202784	3	370	Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread  Part No. Socket contact 242A18690X 242A18710X 242A18720X 242A18730X 242A18740X 242A18750X 242A18760X	Part No. Plug contact 241A17100X 241A17120X 241A17140X 241A17150X 241A17160X 241A17170X 241A17170X 241A17170X 241A17170X
Folder pin, angled, .350"/7.98 mm Precision machined contacts, plastic bracket grounding strap, 4-40 UNC threaded insert	3.3 6.2 10.55 10.55 11.4.4	15 26 44 62 15 26 44 62	3 (UL, VDE) / 2.5 (CSA) Current rating	100	E202784 E202784	3	830	Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread  Part No. Socket contact 242A18690X 242A18710X 242A18720X 242A18730X 242A18750X 242A18750X 242A18760X	Part No. Plug contact 241A171100X 241A17110X 241A17120X 241A17130X 241A17150X 241A17160X 241A17170X 241A17170X
colder pin, angled, .350"/7.98 mm recision machined contacts, plastic bracket frounding strap, 4-40 UNC threaded insert	3,3	15 26 44 62 15 26 44 62 15 26 44	3 (UL, VDE) / 2.5 (CSA) 3 (UL, VDE) / 2.5 (CSA) 3 (UL, VDE) / 2.5 (CSA) Current rating	100	E202784 E202784	3	830	Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread  Part No. Socket contact 242A18690X 242A18710X 242A18720X 242A18720X 242A18750X 242A18750X 242A18760X  242A18850X 242A18850X 242A18860X 242A18870X	Part No. Plug contact 241A17100X 241A17120X 241A17130X 241A17150X 241A17150X 241A17160X 241A17170X
C-Filter High Density  Solder pin, angled, .350"/7.98 mm Precision machined contacts, plastic bracket  Grounding strap, 4-40 UNC threaded insert  Grounding strap, 4-40 UNC front spacer	3,3 6,3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	15 26 44 62 15 26 44 62 15 26 44 62	3 (UL, VDE) / 2.5 (CSA) 3 (UL, VDE) / 2.5 (CSA) 3 (UL, VDE) / 2.5 (CSA) Current rating	100	E202784 E202784 E202784	3	830 370	Quality class 3 (A) = 5 On request:  Brass tin plated or s  Quality class 1 (C) =  M3 thread  Part No. Socket contact 242A18690X 242A18710X 242A18720X 242A18730X 242A18740X 242A18750X 242A18750X 242A18760X  242A18860X 242A18860X 242A18870X 242A18880X	Part No. Plug contact 241A17110X 241A17120X 241A17130X 241A17150X 241A17160X 241A17170X 241A17260X 241A17270X 241A17280X 241A17290X
Grounding strap, 4-40 UNC front spacer	3,3 6,3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	15 26 44 62 15 26 44 62 15 26 44 62	3 (UL, VDE) / 2.5 (CSA) 3 (UL, VDE) / 2.5 (CSA) Current rating	100	E202784 E202784	3	830	Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread  Part No. Socket contact 242A18690X 242A18710X 242A18720X 242A18720X 242A18750X 242A18750X 242A18760X  242A18850X 242A18860X 242A18880X 242A18880X 242A18880X	Part No. Plug contact 241A17110X 241A17110X 241A17120X 241A17130X 241A17140X 241A17150X 241A17160X 241A17260X 241A17260X 241A17280X 241A17290X 241A17300X

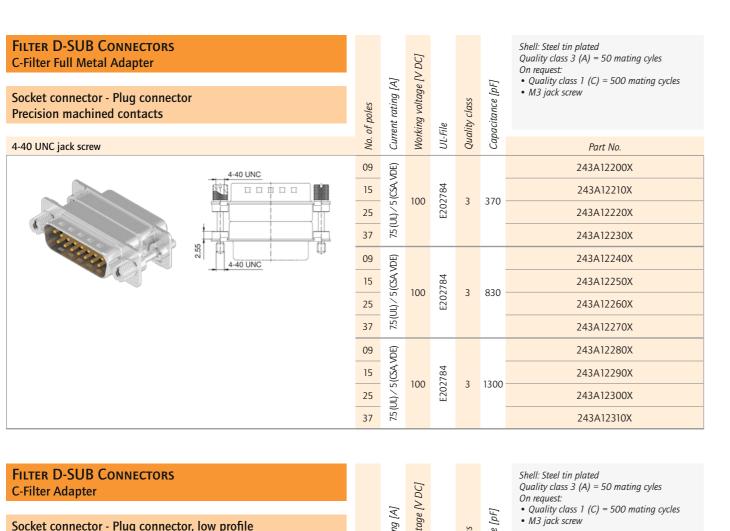
**CONEC** 3 | 121

FILTER D-SUB CONNECTORS C-Filter High Density  Solder pin, angled, .350"/7.98 r Precision machined contacts, me		No. of poles	Current rating [A]	Morking voltage [V DC]	ile	Quality class	Capacitance [pF]	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or s • Quality class 1 (C) = • M3 thread	stainless steel
4-40 UNC threaded insert			Curr	Wor	UL-File	Ona	Сар	Part No. Socket contact	Part No. Plug contact
		15	(SS)					242A19810X	241A18220X
	9 9 9	26	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A19820X	241A18230X
	93.18	44	L, VDE)	100	E202	3	370	242A19830X	241A18240X
	4-40 UNC	62	3(U					242A19840X	241A18250X
	3,25 6,35	15	(CSA)					242A19850X	241A18260X
		26	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	242A19860X	241A18270X
	7,38	44	L, VDE)	100	E20	J	030	242A19870X	241A18280X
		62	3 (U					242A19880X	241A18290X
Clip for PCB 1.6 mm, 4-40 UNC threader	d insert								
		15	(CSA)					242A19490X	241A17900X
	⊕ 100000000 ⊕ 15 ±	26	/ 2.5	100	E202784	3	370	242A19500X	241A17910X
	100	44	3 (UL, VDE) / 2.5 (CSA)	100	E20	3	370	242A19510X	241A17920X
	4-40 UNC	62	3 (U					242A19520X	241A17930X
	3,25 6,35	15	(SS)					242A19530X	241A17940X
		26	/ 2.5 (	100	E202784	2	830	242A19540X	241A17950X
NOV.	86.7		15 26 27 100 100 100 100 100 100 100 100 100 10	E202	E2027	3 830	242A19550X	241A17960X	
		62	3 (UI					242A19560X	241A17970X

			1_						
		62	3 (UL					242A19560X	241A17970X
FILTER D-SUB CONNECTORS LC-Filter High Density			[A]	e [V DC]			ıF]	Shell: Steel tin plated Quality class 3 (A) = 5 On request: • Brass tin plated or:	stainless steel
Solder pin, angled, .350"/7.98 Precision machined contacts, m		No. of poles	Current rating [A]	Working voltage [V DC]	e,	Quality class	Capacitance [pF]	<ul><li> Quality class 1 (C) =</li><li> M3 thread</li></ul>	= 500 mating cycles
4-40 UNC threaded insert		No. o	Curre	Work	UL-File	Quali	Сара	Part No. Socket contact	Part No. Plug contact
		15	(SA)					242A25620X	241A25720X
		26	/25(	100	5202784	3	370	242A25630X	241A25730X
	93.4	44	3 (UL, VDE) / 2.5 (CSA)	100	E202	3	370	242A25640X	241A25740X
	4-40 UNC	62	3(UI					242A25650X	241A25750X
	3,25 6,35	15	(CSA)					242A25660X	241A25760X
THE TOTAL PROPERTY.		26	/ 2.5 (	100	E202784	3	830	242A25670X	241A25770X
	2,98	44	3 (UL, VDE) / 2.5 (CSA)	100	E202	3	030	242A25680X	241A25780X
		62	3 (UI					242A25690X	241A25790X
Clip for PCB 1.6 mm, 4-40 UNC threade	ed insert								
		15	(CSA)					242A25780X	241A25880X
		26	3 (UL, VDE) / 2.5 (CSA)	100	5202784	3	370	242A25790X	241A25890X
	10.66	44	L,VDE		E20	Ü	0,0	242A25800X	241A25900X
	4-40 UNC	62	3(0					242A25810X	241A25910X
	3,25 6,35	15	(CSA)					242A25820X	241A25920X
		26	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	242A25830X	241A25930X
	7,98	44	LVDE	100	E20	3 8	830	242A25840X	241A25940X
		62	3(U					242A25850X	241A25950X



FILTER D-SUB CONNECTORS C-Filter Adapter  Socket connector - Plug connect Precision machined contacts  4-40 UNC jack screw	or, low profile	No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles On request: • Quality class 1 (C) = 500 mating cycles • M3 jack screw  Part No.
4-40 ONC Jack Sciew		09						243A10010X
	4-40 UNC	15	√VDE)					243A10020X
		25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	243A10030X
Street, Street		37	2(UL)		E2			243A10040X
	4-40 UNC	50	7.					243A10130X
		09						243A10090X
		15	7.5 (UL) / 5 (CSA, VDE)		4			243A10100X
		25	/5(CS	100	E202784	3	830	243A10110X
		37	75 (UL)		Э			243A10120X
		50	- 1					243A10150X
		09	e e					243A10050X
		15	7.5 (UL) / 5 (CSA, VDE)		34			243A10060X
		25	/5(C	100	E202784	3	1300	243A10070X
		37	75 (UL)		ш			243A10080X
		50	17					243A10140X



FILTER D-SUB CONNECTORS  π-Filter Full Metal Adapter  Socket connector - Plug connector  Precision machined contacts  4-40 UNC jack screw		Current rating [A]	Working voltage [V DC]	ile	Quality class	Capacitance [pF]	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
		Curr	Worl	UL-File	Qua	Сар	Part No.
4-40 UNC	09	Œ)					MAP1XAAAR02R741X
	15	15	7.5 (UL) / 5 (CSA, VDE)	784	784	2x	MAP2XAAAR02R741X
	25	11)/5		E202784	3	370	MAP3XAAAR02R741X
4-40 UNC	37	75 (L					MAP4XAAAR02R741X
99 d-40 UNC	09	/DE)					MAP1XAAAR02R162X
	15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x	MAP2XAAAR02R162X
	25	JL) / 5	100	E202	3	830	MAP3XAAAR02R162X
	37	37 29:					MAP4XAAAR02R162X
	09	(DE)					MAP1XAAAR02R262X
	15	09 15 25 (11) 22 (28 ADE)	7.5 (UL) / 5 (CSA N	784	-	2x	MAP2XAAAR02R262X
	25			E202784	3	1300	MAP3XAAAR02R262X
	37						MAP4XAAAR02R262X
4-40 UNC hex bolt							
4-40 UNC	09	VDE)					MAP1XAAAH02R741X
	15	\ <del>S</del> S)	100	E202784	3	2x	MAP2XAAAH02R741X
	25	7.5 (UL) / 5 (CSA, VDE)	100	E20,	J	370	MAP3XAAAH02R741X
4-40 UNC	37	7.5 (					MAP4XAAAH02R741X
4-40 UNC	09	VDE)					MAP1XAAAH02R162X
	15	(CSA,	100	E202784	3	2x	MAP2XAAAH02R162X
	25	(UL) / 5 (CSA, VDE)	100	E20,	J	830	MAP3XAAAH02R162X
	37	7.5 (					MAP4XAAAH02R162X
	09	VDE)					MAP1XAAAH02R262X
	15	(SA)	100	2784	2	2x 1300	MAP2XAAAH02R262X
	25	. 2 (	100	E202784	E2027		MAP3XAAAH02R262X
	37	7.5 (1					MAP4XAAAH02R262X

FILTER D-SUB CONNECTORS C-Filter Adapter High Density				l)a				Shell: Steel tin plated Quality class 3 (A) = 50 mating cyles On request:
Socket connector - Plug connector, low profile Precision machined contacts		No. of poles	Current rating [A]	Working voltage [V DC]	ile	Quality class	Capacitance [pF]	<ul> <li>Quality class 1 (C) = 500 mating cycles</li> <li>M3 jack screw</li> </ul>
4-40 UNC jack screw		No.	Cun	Wor	UL-File	Ona	Сар	Part No.
	4-40 UNC	15	(SA)					243A11640X
		26	/25(	100	E202784	3	270	243A11650X
		44	3 (UL, VDE) / 2.5 (CSA)	100	E202	3	370 -	243A11660X
	4-40 UNC	62	3(U					243A11670X
		15	(SA)					243A11680X
		26	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	020	243A11690X
		44	,VDE)	100	E202	3	830 -	243A11700X
		62	3(UI					243A11710X



FILTER D-SUB CONNECTORS Accessories  EMI/RFI shielding frames	shell size	No. of poles Standard	No. of poles High Density	Measure A [mm]	Measure B [mm]	<ul> <li>Material: Stainless steel</li> <li>For improved ground contact</li> <li>Suitable for assembly to the mating side</li> </ul>
	Shel	No.	No. 0		Меа	Part No.
A	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





### **Part Number Creator**

```
3 F 3 S P A O 8 S 4 1 A 1 O X
Shell size and design
    = 2F2C (2W2C)* = Coded
    = 3F3S (3W3S)* = Standard
2
    = 3F3C (3W3C)* = Coded
     = 5F5S (5W5S)* = Standard
4 = 8F8S (8W8S)* = Standard
*F = filtered
Contact type
    = 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 \text{ nF}
                       14 = 12 \text{ nF}
                       22 = 47 \text{ nF}
08 = 5.0 \, \text{nF}
12 = 10 \text{ nF}
                       28 = 100 nF
Dielectic with standing voltage
S = 707 VDC standard DWV
                                                                  U = 1500 VDC ultra high DWV
H = 1020 VDC high DWV
Termination for high current contacts
                                                                  51 = Solder pin, straight 30 A, D= .125"/3.18 mm
41 = Solder cup 10 A
                                                                  52 = Solder pin, straight 40 A, D= .148"/3.75 mm
42 = Solder cup 20 A
                                                                  53 = Solder pin, straight 50 A, D= .148"/3.75 mm
43 = Solder cup 30 A
                                                                  56 = Solder pin, angled 20 A
44 = Solder cup 40 A
                                                                  57 = Solder pin, angled 30 A
45 = Solder cup 50 A
                                                                  58 = Solder pin, angled 40 A
46 = Solder cup 65 A*
                                                                  P1 = Press fit 30 A
48 = Solder pin, straight 20 A, D= .077" / 1.95 mm
                                                                  P2= Press fit 30 A
49 = Solder pin, straight 20 A, D= .102"/2.60 mm
                                                                  P4= Press fit 30 A
50 = Solder pin, straight 20 A, D= .112"/2.85 mm
                                                                  *3W3: Pos. A1 + A3; 5W5: Pos. A1 + A3 + A5
Mounting style
                                                                  E4 = 4-40 UNC threaded rear spacer with PCB clip, PCB .091"/2.30 mm
A1 = Riveted
A3 = 4-40 UNC threaded insert
                                                                  E6 = 4-40 UNC threaded rear spacer with PCB clip, PCB .126"/3.20 mm
A5 = 4-40 UNC threaded rear spacer
                                                                  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
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
                                                                F6 = 4-40 UNC front/threaded rear spacer with PCB clip, PCB .126"/3.20 mm
C4 = 4-40 UNC threaded rear spacer with PCB clip, PCB .091"/2.30 mm
                                                                K2 = Metal bracket, 4-40 UNC threaded insert
C6 = 4-40 UNC threaded rear spacer with PCB clip, PCB .126"/3.20 mm
                                                               K4 = Metal bracket, 4-40 UNC threaded insert / PCB clip
D2 = 4-40 UNC front/threaded rear spacer with PCB clip, PCB .063"/1.60 mm L2 = Metal bracket, 4-40 UNC threaded lock
D6 = 4-40 UNC front/threaded rear spacer with PCB clip, PCB .126"/3.20 mm W4 = Press-fit spacer with 4-40 UNC push in pin
E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063"/1.60 mm
OX = Standard
```



### Product specification

Basic Material			ntions 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 DW High DWV Ultra High DV	1020 VDC							
Working voltage	100 VDC Depending on isolation coordination refer to DIN VDE 0110/IEC 664-1									
Current rating	up to 65 A (20 °C)									
Contact resistance	Max. 2 m $\Omega$ prior to stressing, $\Delta R$ max. 2 m $\Omega$ after stressing refer to IEC 60807-2									
Insulation resistance		≥1	GΩ							
Capacitor values For other capacitance values please contact the factory.	Ē	3 nF ± 20 % tolerance 5 nF ± 20 % tolerance 0 nF ± 20 % tolerance other capacitor v	12 nF ± 20 % tolerar 47 nF ± 20 % tolerar 100 nF ± 20 % tolerar values on request	nce						
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			= 50 mating cycles = 500 mating cycles							
Solder parameter	Preh	eating	Solder terminal dipp	oing parameters						
Recommended wave-solder parameters	max. Tempertature	Duration 120 s	max. solder bath Temperature $260~^{\circ}\text{C}$	max. Terminal Immersion Time 5 S						
Necommended wave-solder parameters	120 C	120 3	200 C	3.5						

Technical specifications are subject to change without notice.

**CONEC** 4 | 129

Downloaded from	Arrow.com

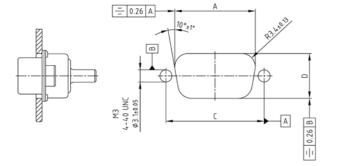
### Insertion loss

C-Filter

Typical Insertion Loss -10 -20 -30 -Combination D-Sub 1,3nF Combination D-Sub 5nF -40 Combination D-Sub 10nF Combination D-Sub 12nF -50 Combination D-Sub 47nF Combination D-Sub 100nF -60 10 Frequency in MHz 100 1000 0 1

### Panel cut-out

### Back panel mounting

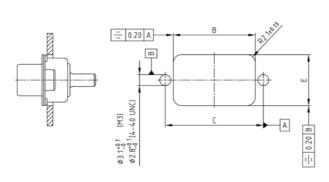


# Shell size Layout A ± 0.1 B ± 0.1 C ± 0.1 D ± 0.1 E ± 0.1 1 2W2C 20.50 20.90 25.00 11.40 13.00 2 3W35, 3W3C 28.80 29.20 33.30 11.40 13.00 3 5W5S 42.50 42.90 47.04 11.40 13.00 4 8W8S 59.10 59.40 63.50 11.40 13.00

### Technical specifications are subject to change without notice.

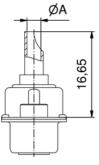


### Front panel mounting



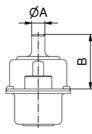
### Termination code high power contacts

### Solder cup



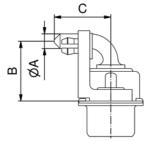
Termination Code	Current rating	AWG	Ø A [mm]
41	10 A	16-20	1.80
42	20 A	12-14	2.70
43	30 A	10-12	3.50
44	40 A	8-10	4.80

### Solder pin straight



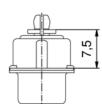
Termination Code	Current rating	Ø A [mm]	<b>B</b> ± 0.3 [mm]	PCB thickness [mm]	Hole diameter in PCB [mm]
48	20 A	1.95	9.65	1.6	$2.30 \pm 0.1$
49	20 A	2.60	10.65	1.6	$3.00 \pm 0.1$
50	20 A	2.85	10.05	1.6	$3.20 \pm 0.1$
51	30 A	3.18	12.85	1.6/2.3/3.2	$3.60 \pm 0.1$
52	40 A	3.75	11.10	1.6/2.3/3.2	4.10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

### Solder pin angled

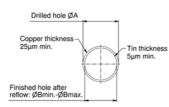


Termination Code	Current rating	Ø A [mm]	<b>B</b> ± 0.3 [mm]	C ± 0.3 [mm]	Hole diameter in PCB [mm]
56	20 A	2.85	11.65	11.00	$3.20 \pm 0.1$
57	30 A	3.18	20.35	9.50	$3.60 \pm 0.1$
58	40 A	3.75	11.65	11.00	4.10 ± 0.1

### Press-fit contact



Termination Code	Current rating	Ø A ± 0.03 [mm]	Ø B min. [mm]	Ø <b>B</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.

**CONEC** 4 | 131



### FILTER COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Quality class: 3(A) = 50 mating cyles Working voltage [VDC] On request: Current rating [A] higher DWV Capacitance [nF] • Quality class: 1 (C) = 500 mating cycles Solder cup • M3 thread of poles Precision machined contacts, AWG 8-20 Part No. Socket contact Part No. Plug contact AWG No. Through-hole Ø 3 mm 10 16-20 3F3SSA22S41A10X 3F3SPA22S41A10X 20 12-14 3F3SPA22S42A10X 3F3SSA22S42A10X 47 100 30 10-12 3F3SSA22S43A10X 3F3SPA22S43A10X 40 3F3SPA22S44A10X 8-10 3F3SSA22S44A10X 10 5F5SSA22S41A10X 5F5SPA22S41A10X 16-20 20 12-14 5F5SSA22S42A10X 5F5SPA22S42A10X 47 100 30 10-12 5F5SSA22S43A10X 5F5SPA22S43A10X For other capacitance values refer to the part number creator. 40 8-10 10 16-20 8F8SSA22S41A10X 8F8SPA22S41A10X 100 nF 28 47 nF 22 20 12-14 8F8SSA22S42A10X 8F8SPA22S42A10X 12 nF 14 47 100 10 nF 12 30 10-12 8F8SSA22S43A10X 8F8SPA22S43A10X 5 nF 08 1.3 nF 05 40 8-10 8F8SSA22S44A10X 8F8SPA22S44A10X Through-hole Ø 3 mm, coded version 10 16-20 2F2CSA22S41A10X 2F2CPA22S41A10X 20 12-14 2F2CSA22S42A10X 2F2CPA22S42A10X 47 30 10-12 2F2CSA22S43A10X 2F2CPA22S43A10X 40 8-10 2F2CSA22S44A10X 2F2CPA22S44A10X 3F3CSA22S41A10X 3F3CPA22S41A10X 10 16-20 For other capacitance values refer to the part number creator. 20 12-14 3F3CSA22S42A10X 3F3CPA22S42A10X Capacitance value Code 47 100 nF 100 47 nF 30 10-12 3F3CSA22S43A10X 3F3CPA22S43A10X 12 nF 14 10 nF 12 40 8-10 3F3CSA22S44A10X 3F3CPA22S44A10X 1.3 nF 05 4-40 UNC threaded insert 10 16-20 3F3SSA22S41A30X 3F3SPA22S41A30X 20 12-14 3F3SSA22S42A30X 3F3SPA22S42A30X 47 100 30 10-12 3F3SSA22S43A30X 3F3SPA22S43A30X 40 8-10 3F3SSA22S44A30X 3F3SPA22S44A30X 4-40 UNC 10 16-20 5F5SSA22S41A30X 5F5SPA22S41A30X 6758329 20 12-14 100 30 10-12 For other capacitance values refer to the part number creator. 40 8-10 Capacitance value Code 10 16-20 8F8SSA22S41A30X 8F8SPA22S41A30X 100 nF 28 47 nF 8F8SSA22S42A30X 8F8SPA22S42A30X 20 12-14 47 283 100 10 nF 12 8F8SSA22S43A30X 8F8SPA22S43A30X 30 10-12 40 8-10 8F8SSA22S44A30X 8F8SPA22S44A30X



### FILTER COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Quality class: 3 (A) = 50 mating cyles Shell: Steel tin plated Quality class: 3 (A) = 50 mating cyles On request: • higher DWV • Quality class: 1 (C) = 500 mating cycles • M3 thread Part No. Socket contact Part No. Plug contact Solder cup No. of poles Precision machined contacts, AWG 8-20 4-40 UNC threaded insert, coded version 2F2CSA22S41A30X 2F2CPA22S41A30X 10 16-20 20 12-14 2F2CSA22S42A30X 2F2CPA22S42A30X 100 30 10-12 2F2CSA22S43A30X 2F2CPA22S43A30X 40 8-10 3F3CSA22S41A30X 3F3CPA22S41A30X 10 16-20 For other capacitance values refer to the part number creator. 20 12-14 3F3CSA22S42A30X 3F3CPA22S42A30X 47 100 -100 nF 22 47 nF 30 10-12 12 nF 12 08 10 nF 5 nF 8-10 3F3CSA22S44A30X 3F3CPA22S44A30X 05 1.3 nF

FILTER COMBINATION D-SUB CONNECTORS C-Filter  Solder pin straight Precision machined contacts				Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	le	Quality class	Shell: Steel tin plated Quality class: 3 (A) = 5 On request: • higher DWV • Quality class: 1 (C) = • M3 thread	
Through-hole Ø 3 mm		No. of poles	Current rating [A]	Work	Oute	Сарс	UL-File	Qual	Part No. Socket contact	Part No. Plua contact
					1.95				3F3SSA22S48A10X	3F3SPA22S48A10X
			20		2.60		E228329		3F3SSA22S49A10X	3F3SPA22S49A10X
		3W3		100	2.85	47		3	3F3SSA22S50A10X	3F3SPA22S50A10X
200	Ø3	,	30	3.18		E2.		3F3SSA22S51A10X	3F3SPA22S51A10X	
			40		3.75				3F3SSA22S52A10X	3F3SPA22S52A10X
					1.95				5F5SSA22S48A10X	5F5SPA22S48A10X
			20		2.60		6		5F5SSA <mark>22</mark> S49A10X	5F5SPA22S49A10X
		5W5		100	2.85	47	E228329	3	5F5SSA <mark>22</mark> S50A10X	5F5SPA22S50A10X
			30		3.18		EZ		5F5SSA <mark>22</mark> S51A10X	5F5SPA22S51A10X
For other capacitance values refer			40		3.75				5F5SSA <mark>22</mark> S52A10X	5F5SPA22S52A10X
to the part number creator.					1.95				8F8SSA <mark>22</mark> S48A10X	8F8SPA22S48A10X
Capacitance value Code 100 nF 28			20	2.60 100 2.85 47 3.18	2.60	_	6		8F8SSA <mark>22</mark> S49A10X	8F8SPA22S49A10X
47 nF 22 12 nF 14		8W8			2.85		E228329	3	8F8SSA22S50A10X	8F8SPA22S50A10X
10 nF 12 5 nF 08			30		Ш		8F8SSA <mark>22</mark> S51A10X	8F8SPA22S51A10X		
1.3 nF 05			40		3.75				8F8SSA <mark>22</mark> S52A10X	8F8SPA22S52A10X
Through-hole Ø 3 mm, coded version										
					1.95				2F2CSA <mark>22</mark> S48A10X	2F2CPA22S48A10X
			20		2.60		6		2F2CSA <mark>22</mark> S49A10X	2F2CPA22S49A10X
		2W2C		100	2.85	47	E228329	3	2F2CSA <mark>22</mark> S50A10X	2F2CPA22S50A10X
	Ø3		30		3.18		EZ		2F2CSA22S51A10X	2F2CPA22S51A10X
			40		3.75				2F2CSA <mark>22</mark> S52A10X	2F2CPA22S52A10X
For other capacitance values refer					1.95				3F3CSA <mark>22</mark> S48A10X	3F3CPA22S48A10X
to the part number creator.  Capacitance value Code			20		2.60				3F3CSA <mark>22</mark> S49A10X	3F3CPA22S49A10X
100 nF 28				100	100 2.85 4	47	E228329	3	3F3CSA22S50A10X	3F3CPA22S50A10X
47 nF 22 12 nF 14		3W3C	30		3.18		E22		3F3CSA22S51A10X	3F3CPA22S51A10X
10 nF 12 5 nF 08										
1.3 nF 05			40		3.75				3F3CSA <mark>22</mark> S52A10X	3F3CPA22S52A10X



### FILTER COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Quality class: $\dot{3}$ (A) = 50 mating cyles Working voltage [VDC] On request: Current rating [A] higher DWV Capacitance [nF] • Quality class: 1 (C) = 500 mating cycles Solder pin straight of poles • M3 thread **Precision machined contacts** Outer Ø Part No. Socket contact Part No. Plug contact No. 4-40 UNC threaded insert 1.95 3F3SSA22S48A30X 3F3SPA22S48A30X 20 2.60 3F3SSA22S49A30X 3F3SPA22S49A30X 100 2.85 47 3F3SSA<mark>22</mark>S50A30X 3F3SPA22S50A30X 30 3.18 3F3SSA22S51A30X 3F3SPA22S51A30X 40 3.75 3F3SSA22S52A30X 3F3SPA22S52A30X 1.95 2.60 20 5F5SSA22S49A30X 5F5SPA22S49A30X 100 2.85 47 3 5F5SSA22S50A30X 5F5SPA22S50A30X 30 3.18 5F5SPA22S51A30X 5F5SSA22S51A30X 40 3.75 5F5SSA<mark>22</mark>S52A30X 5F5SPA22S52A30X For other capacitance values refer to the part number creator. 1.95 8F8SSA22S48A30X 8F8SPA22S48A30X Capacitance value 20 2.60 8F8SSA22S49A30X 8F8SPA22S49A30X 28 100 nF 47 nF 22 3 8F8SSA22S50A30X 8F8SPA22S50A30X 100 2.85 47 12 nF 14 10 nF 12 30 3.18 8F8SSA22S51A30X 8F8SPA22S51A30X 5 nF 1.3 nF 05 40 8F8SSA22S52A30X 8F8SPA22S52A30X 3.75 4-40 UNC threaded insert, coded version 1.95 2F2CSA22S48A30X 2F2CPA22S48A30X 20 2.60 2F2CSA22S49A30X 2F2CPA22S49A30X 100 2.85 47 2F2CSA22S50A30X 2F2CPA22S50A30X 4-40 UNC 30 3.18 2F2CSA22S51A30X 2F2CPA22S51A30X 40 3.75 2F2CSA22S52A30X 2F2CPA22S52A30X 1.95 3F3CSA22S48A30X 3F3CPA22S48A30X For other capacitance values refer to the part number creator. 2.60 3F3CSA22S49A30X 3F3CPA22S49A30X 20 Capacitance value Code 100 nF 100 2.85 47 3 3F3CSA22S50A30X 3F3CPA22S50A30X 47 nF 12 nF 30 3.18 3F3CSA22S51A30X 3F3CPA22S51A30X 10 nF 40 3.75 3F3CSA22S52A30X 3F3CPA22S52A30X 1.3 nF

**CONEC** 4 | 135

FILTER COMBINATION D-SUI C-Filter  Solder pin straight Precision machined contacts	B Connectors	No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	le	Quality class	Shell: Steel tin plated Quality class: 3 (A) = 50 On request: • higher DWV • Quality class: 1 (C) = • M3 thread	
4-40 UNC threaded rear spacer		No. o	Curre	Work	Oute	Сарс	UL-File	Qual	Part No. Socket contact	Part No. Plug contact
					1.95				3F3SSA <mark>22</mark> S48A50X	3F3SPA22S48A50X
			20		2.60		•		3F3SSA22S49A50X	3F3SPA22S49A50X
0	8,8	3W3		100	2.85	47	E228329	3	3F3SSA22S50A50X	3F3SPA22S50A50X
	4-40 UNC	,	30		3.18		E2.		3F3SSA22S51A50X	3F3SPA22S51A50X
0000			40		3.75				3F3SSA22S52A50X	3F3SPA22S52A50X
					1.95				5F5SSA22S48A50X	5F5SPA22S48A50X
			20		2.60		6		5F5SSA22S49A50X	5F5SPA22S49A50X
		5W5		100	2.85	47	E228329	3	5F5SSA <mark>22</mark> S50A50X	5F5SPA22S50A50X
			30		3.18		E		5F5SSA <mark>22</mark> S51A50X	5F5SPA22S51A50X
For the constitution of th			40		3.75				5F5SSA <mark>22</mark> S52A50X	5F5SPA22S52A50X
For other capacitance values refer to the part number creator.					1.95				8F8SSA <mark>22</mark> S48A50X	8F8SPA22S48A50X
Capacitance value Code 100 nF 28			20		2.60		6		8F8SSA <mark>22</mark> S49A50X	8F8SPA22S49A50X
47 nF 22 12 nF 14		8W8		100	2.85	47	E228329	3	8F8SSA <mark>22</mark> S50A50X	8F8SPA22S50A50X
10 nF 12 5 nF 08			30		3.18		Э		8F8SSA22S51A50X	8F8SPA22S51A50X
1.3 nF 05			40		3.75				8F8SSA <mark>22</mark> S52A50X	8F8SPA22S52A50X
4-40 UNC threaded rear spacer, coded	l version									
					1.95				2F2CSA <mark>22</mark> S48A50X	2F2CPA22S48A50X
	8.9		20		2.60		•		2F2CSA22S49A50X	2F2CPA22S49A50X
		2W2C		100	2.85	47	E228329	3	2F2CSA <mark>22</mark> S50A50X	2F2CPA22S50A50X
	4-40 UNC		30		3.18		E2		2F2CSA22S51A50X	2F2CPA22S51A50X
			40		3.75				2F2CSA <mark>22</mark> S52A50X	2F2CPA22S52A50X
For other capacitance values refer					1.95				3F3CSA22S48A50X	3F3CPA22S48A50X
to the part number creator.			20		2.60				3F3CSA22S49A50X	3F3CPA22S49A50X
Capacitance value Code 100 nF 28		3W3C		100	2.85	47	E228329	3	3F3CSA22S50A50X	3F3CPA22S50A50X
47 nF 22 12 nF 14		3W		100		7/	E228	J		
10 nF 12 5 nF 08			30		3.18				3F3CSA22S51A50X	3F3CPA22S51A50X
1.3 nF 05			40		3.75				3F3CSA <mark>22</mark> S52A50X	3F3CPA22S52A50X



tin plated	-0ti
	50 mating cyles
	= 500 mating cycles
d	
et contact	Part No. Plug contact
48A50X	3F3SPA22S48A50X
49A50X	3F3SPA22S49A50X
50A50X	3F3SPA22S50A50X
51A50X	3F3SPA22S51A50X
52A50X	3F3SPA22S52A50X
48A50X	5F5SPA22S48A50X
49A50X	5F5SPA22S49A50X
50A50X	5F5SPA22S50A50X
51A50X	5F5SPA22S51A50X
52A50X	5F5SPA22S52A50X
48A50X	8F8SPA22S48A50X
49A50X	8F8SPA22S49A50X
50A50X	8F8SPA22S50A50X
51A50X	8F8SPA22S51A50X
52A50X	8F8SPA22S52A50X
48A50X	2F2CPA22S48A50X
49A50X	2F2CPA22S49A50X
50A50X	2F2CPA22S50A50X
51A50X	2F2CPA22S51A50X
52A50X	2F2CPA22S52A50X
48A50X	3F3CPA22S48A50X
49A50X	3F3CPA22S49A50X
50A50X	3F3CPA22S50A50X
51A50X	3F3CPA22S51A50X
52A50X	3F3CPA22S52A50X

### FILTER COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Quality class: $\dot{3}$ (A) = 50 mating cyles Working voltage [VDC] On request: Current rating [A] higher DWV Capacitance [nF] • Quality class: 1 (C) = 500 mating cycles Solder pin straight of poles • M3 thread Precision machined contacts Outer Ø Part No. Socket contact Part No. Plug contact No. 4-40 UNC threaded rear spacer clip for PCB 1.6 mm 1.95 3F3SSA22S48E20X 3F3SPA22S48E20X 20 2.60 3F3SPA22S49E20X 3F3SSA22S49E20X 100 2.85 47 3F3SSA22S50E20X 3F3SPA22S50E20X 3F3SPA22S51E20X 30 3.18 3F3SSA22S51E20X 4-40 UNC 40 3.75 3F3SSA22S52E20X 3F3SPA22S52E20X 1.95 20 2.60 5F5SSA22S49E20X 5F5SPA22S49E20X 3 5F5SSA22S50E20X 5F5SPA22S50E20X 100 2.85 47 30 3.18 5F5SSA22S51E20X 5F5SPA22S51E20X 40 3.75 5F5SSA22S52E20X 5F5SPA22S52E20X For other capacitance values refer to the part number creator. 1.95 8F8SSA22S48E20X 8F8SPA22S48E20X Capacitance value 8F8SSA22S49E20X 8F8SPA22S49E20X 20 2.60 100 nF 28 47 nF 22 100 2.85 47 8F8SSA22S50E20X 8F8SPA22S50E20X 12 nF 14 10 nF 12 30 3.18 8F8SSA22S51E20X 8F8SPA22S51E20X 5 nF 08 1.3 nF 05 40 3.75 8F8SSA22S52E20X 8F8SPA22S52E20X 4-40 UNC threaded rear spacer clip for PCB 1.6 mm, coded version 1.95 2F2CSA22S48E20X 2F2CPA22S48E20X 20 2.60 2F2CSA22S49E20X 2F2CPA22S49E20X 100 2.85 47 2F2CSA22S50E20X 2F2CPA22S50E20X 4-40 UNC 30 3.18 2F2CSA22S51E20X 2F2CPA22S51E20X 2F2CSA22S52E20X 2F2CPA22S52E20X 40 3.75 1.95 3F3CSA22S48E20X 3F3CPA22S48E20X For other capacitance values refer to the part number creator. 20 2.60 3F3CSA22S49E20X 3F3CPA22S49E20X Capacitance value Code 100 nF 100 2.85 47 3F3CSA22S50E20X 3F3CPA22S50E20X 47 nF 12 nF 30 3.18 3F3CSA22S51E20X 3F3CPA22S51E20X 10 nF 1.3 nF 40 3.75 3F3CSA22S52E20X 3F3CPA22S52E20X 4-40 UNC threaded rear spacer clip for PCB 2.3 mm 3F3SSA22S51E40X 3F3SPA22S51E40X 30 3.18 47 100 3F3SSA22S52E40X 3F3SPA22S52E40X 40 3.75 4-40 UNC 30 5F5SSA22S51E40X 5F5SPA22S51E40X 47 100 For other capacitance values refer 40 3.75 to the part number creator. Capacitance value 100 nF 30 3.18 8F8SSA22S51E40X 8F8SPA22S51E40X 47 nF 14 12 nF 47 100 10 nF 12 5 nF 08 40 3.75 8F8SSA22S52E40X 8F8SPA22S52E40X 1.3 nF 05

**CONEC** 4 | 137

### FILTER COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Shell: Steet tin pinted Quality class: 3 (A) = 50 mating cyles On request: • higher DWV • Quality class: 1 (C) = 500 mating cycles • M3 thread Part No. Socket contact Part No. Plug contact Solder pin straight **Precision machined contacts** No. 4-40 UNC threaded rear spacer clip for PCB 2.3 mm, coded version 30 E2283. 4-40 UNC 40 3.75 2F2CSA22S52E40X 2F2CPA22S52E40X For other capacitance values refer to the part number creator. 30 3F3CSA22S51E40X 3F3CPA22S51E40X Capacitance value 100 nF 47 nF 100 47 14 12 nF 10 nF 12 5 nF 08 3F3CSA22S52E40X 3F3CPA22S52E40X 40 3.75 1.3 nF 05 4-40 UNC threaded rear spacer clip for PCB 3.2 mm 3F3SSA22S51E60X 3F3SPA22S51E60X 40 3.75 3F3SSA22S52E60X 3F3SPA22S52E60X 4-40 UNC 30 3.18 5F5SPA22S51E60X 5F5SSA22S51E60X E528329 100 For other capacitance values refer to the part number creator. Capacitance value Code 100 nF 28 8F8SPA22S51E60X 30 3.18 8F8SSA22S51E60X 47 nF 22 12 nF 14 47 100 10 nF 5 nF 08 40 3.75 8F8SSA22S52E60X 8F8SPA22S52E60X 1.3 nF 05 4-40 UNC threaded rear spacer clip for PCB 3.2 mm, coded version 30 2F2CSA22S51E60X 2F2CPA22S51E60X 100 47 4-40 UNC 40 3.75 2F2CSA22S52E60X 2F2CPA22S52E60X For other capacitance values refer to the part number creator. 3F3CSA22S51E60X 3F3CPA22S51E60X 30 3.18 Capacitance value 100 nF 28 47 47 nF 14 12 12 nF 10 nF 3.75 3F3CSA22S52E60X 3F3CPA22S52E60X 40 5 nF 08 1.3 nF 05

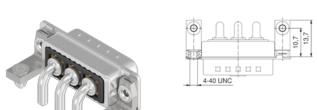


### FILTER COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Quality class: $\dot{3}$ (A) = 50 mating cyles Working voltage [VDC] On request: Current rating [A] higher DWV Capacitance [nF] • Quality class: 1 (C) = 500 mating cycles Solder pin angled • M3 thread Precision machined contacts, metal bracket Outer Ø Part No. Socket contact Part No. Plug contact No. 4-40 UNC threaded insert 3F3SSA22S56K20X 3F3SPA22S56K20X 20 2.85 30 100 3.20 47 3 3F3SSA22S57K20X 3F3SPA22S57K20X 40 3.75 3F3SSA22S58K20X 3F3SPA22S58K20X 2.85 20 5F5SPA22S57K20X 30 100 3.20 47 3 5F5SSA22S57K20X For other capacitance values refer 40 3.75 5F5SPA22S58K20X 5F5SSA22S58K20X to the part number creator. 20 2.85 8F8SSA22S56K20X 8F8SPA22S56K20X 100 nF 47 nF 22 12 nF 14 30 100 3.20 47 3 8F8SSA22S57K20X 8F8SPA22S57K20X 10 nF 12 5 nF 08 40 3.75 8F8SSA22S58K20X 8F8SPA22S58K20X 1.3 nF 05 4-40 UNC threaded insert, coded version 2.85 2F2CSA22S56K20X 2F2CPA22S56K20X 20 30 100 3.20 47 3 2F2CSA22S57K20X 2F2CPA22S57K20X 4-40 UNC 40 3.75 2F2CSA22S58K20X 2F2CPA22S58K20X 20 2.85 3F3CSA22S56K20X 3F3CPA22S56K20X For other capacitance values refer to the part number creator. Capacitance value 30 100 3.20 47 3F3CPA22S57K20X 100 nF 3F3CSA22S57K20X 47 nF 22 12 nF 14 10 nF 12 5 nF 08 40 3.75 3F3CSA22S58K20X 3F3CPA22S58K20X 1.3 nF 05 Clip for PCB 1.6 mm, 4-40 UNC threaded insert 20 2.85 3F3SSA22S56K40X 3F3SPA22S56K40X 30 100 3.20 47 3 3F3SSA22S57K40X 3F3SPA22S57K40X 3.75 40 3F3SSA22S58K40X 3F3SPA22S58K40X 4-40 UNC 20 2.85 30 100 3.20 47 3 5F5SSA22S57K40X 5F5SPA22S57K40X For other capacitance values refer 40 3.75 5F5SSA22S58K40X 5F5SPA22S58K40X to the part number creator. Code Capacitance value 20 2.85 8F8SSA22S56K40X 8F8SPA22S56K40X 12 nF 14 30 100 3.20 47 3 8F8SSA22S57K40X 8F8SPA22S57K40X 10 nF 5 nF 08 40 3.75 8F8SSA22S58K40X 8F8SPA22S58K40X 05 1.3 nF

**CONEC** 4 | 139

# FILTER COMBINATION D-SUB CONNECTORS Solder pin angled Precision machined contacts, metal bracket

### Clip for PCB 1.6 mm, 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							

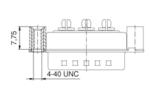
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	ile	Quality class	Quality class: 3 (A) = 50 mating cyles On request: • higher DWV • Quality class: 1 (C) = 500 mating cycles • M3 thread	
No. 0	Curre	Work	Oute	Сарс	UL-File	Qual	Part No. Socket contact Part No. Plug contact	t
	20		2.85				2F2CSA22S56K40X 2F2CPA22S56K40X	
2W2C	30	100	3.20	47	E228329	3	2F2CSA22S57K40X 2F2CPA22S57K40X	(
	40		3.75				2F2CSA22S58K40X 2F2CPA22S58K40X	
	20		2.85				3F3CSA22S56K40X 3F3CPA22S56K40X	3
3W3C	30	100	3.20	47	E228329	3	3F3CSA22S57K40X 3F3CPA22S57K40X	3
	40		3.75				3F3CSA22S58K40X 3F3CPA22S58K40X	(

Shell: Steel tin plated

### Press-fit contact straight Precision machined contacts

### 4-40 UNC threaded rear spacer





Drilled hole ØA	
Copper thickness – 25µm min.	Tin thicknes 5µm min.
Finished hole after reflow: ØBminØBma	x.

an an						0			
	3W3	30	100	3.25	47	E228329	3	3F3SSA <mark>22</mark> SP2AA0X	3F3SPA22SP2AA0X
1-40 UNC				3.20		ш		3F3SSA <mark>22</mark> SP4AA0X	3F3SPA22SP4AA0X
				3.11		6		5F5SSA <mark>22</mark> SP1AA0X	5F5SPA22SP1AA0X
hole ØA	5W5	30	100	3.25	47	E228329	3	5F5SSA <mark>22</mark> SP2AA0X	5F5SPA22SP2AA0X
Tin thickness 5μm min.				3.20		ш		5F5SSA <mark>22</mark> SP4AA0X	5F5SPA22SP4AA0X
after ,ØBmax.				3.11		6		8F8SSA <mark>22</mark> SP1AA0X	8F8SPA22SP1AA0X
	8W8	30	100	3.25	47	E228329	3	8F8SSA <mark>22</mark> SP2AA0X	8F8SPA22SP2AA0X
				3.20		ш		8F8SSA <mark>22</mark> SP4AA0X	8F8SPA22SP4AA0X

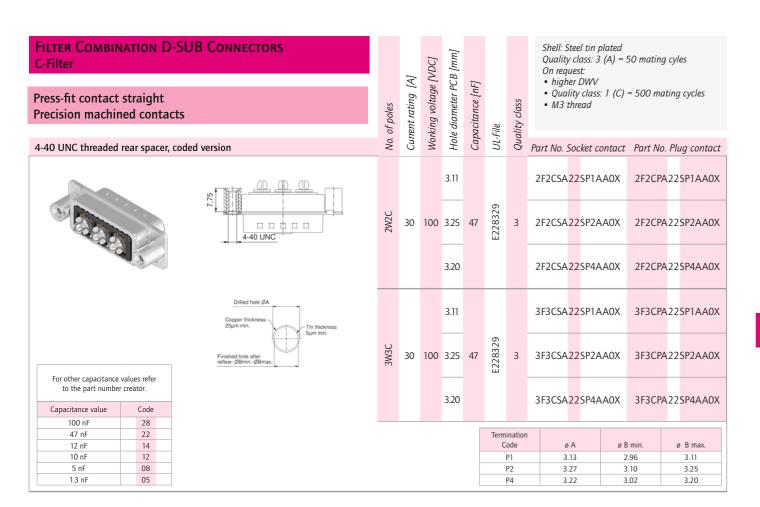
3.11

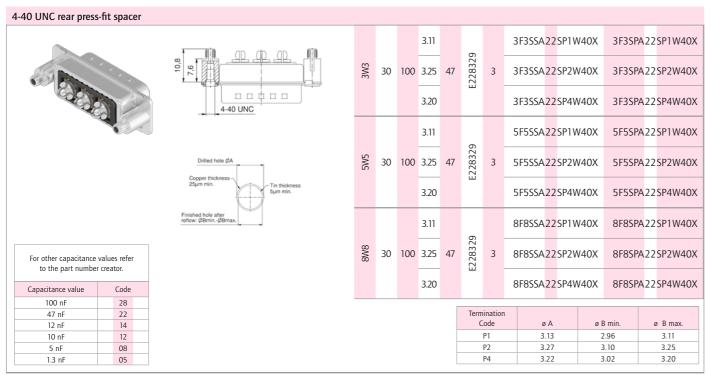
For other capacitance values refer to the part number creator.									
Capacitance value Code									
100 nF	28								
47 nF	22								
12 nF	14								
10 nF	12								
5 nF	08								
1.3 nF	05								

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

3F3SSA22SP1AA0X 3F3SPA22SP1AA0X







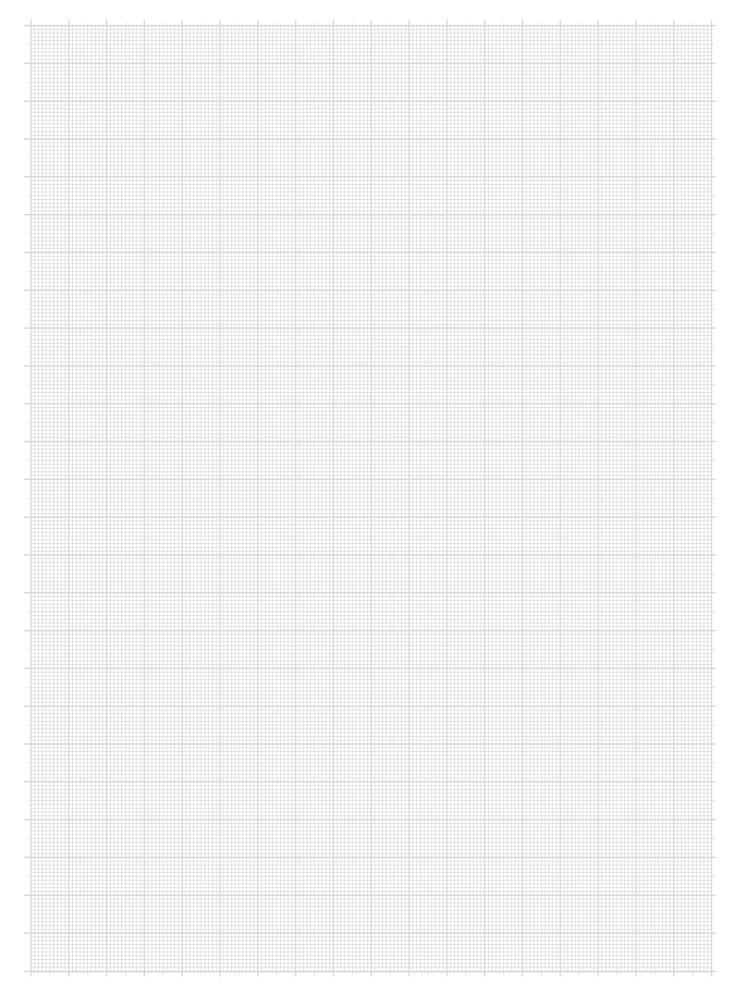
CONEC 4 141



### FILTER COMBINATION D-SUB CONNECTORS Shell: Steel tin plated Quality class: 3 (A) = 50 mating cyles Current rating [A] Working voltage [VDC] Hole diameter PCB [mm] Capacitance [nF] On request: higher DWV • Quality class: 1 (C) = 500 mating cycles Press-fit contact straight No. of poles **Precision machined contacts** 4-40 UNC rear press-fit spacer, coded version 3.11 2F2CSA22SP1W40X 2F2CPA22SP1W40X 3 2F2CSA22SP2W40X 2F2CPA22SP2W40X 4-40 UNC 3.20 3.11 30 100 3.25 47 <sup>65</sup> 87 25 30 100 3.25 3 3F3CSA22SP2W40X 3F3CPA22SP2W40X For other capacitance values refer to the part number creator. 3.20 Capacitance value Termination Code 47 nF ø B max. 12 nF ø B min. 10 nF 12 3.13 2.96 3.11 08 05 5 nF 3.27 3.10 3.25 1.3 nF 3.22 3.02 3.20







# **D-SUB Hoods and Accessories**

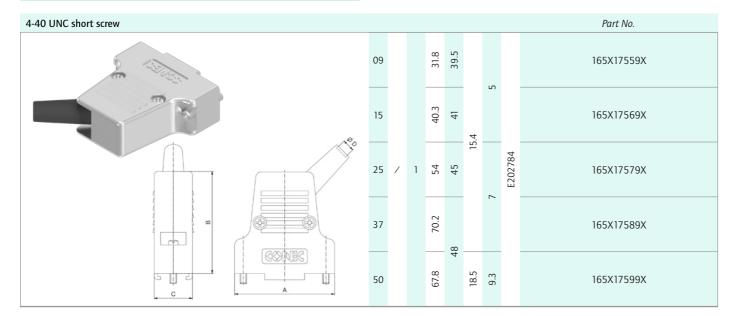




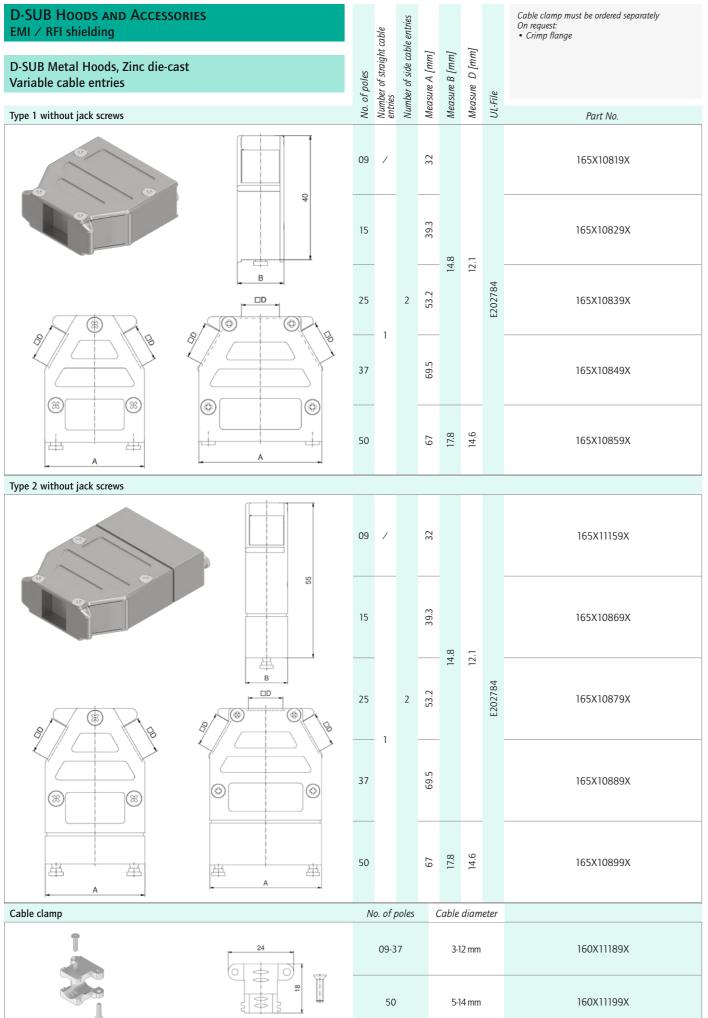
**CONIC**® 5 | 145

### D-SUB Hoods and Accessories On request: • M3 thread EMI / RFI shielding D-SUB Metal Hoods, Zinc die-cast, surface nickel plated Straight cable entry, with cable sleeve 4-40 UNC short screw Part No. 31.7 165X17409X 32 165X17419X 25 1 / 53.7 165X17429X 37 165X17439X 9.3 50 165X17449X 4-40 Unc jack screw 31.7 165X17309X 40 15 165X17319X 53.7 25 165X17329X 165X17339X 67.8 57.5 17.7 9.3 50 165X17349X

### D-SUB Metal Hoods, Zinc die-cast, surface nickel plated Side cable entry, with cable sleeve







Downloaded

Variable cable entries		of poles	Number of st entries	Number of si	Measure A	Measure B <sub>L</sub>	Measure B <sub>L</sub> Measure D		
Type 1 without jack screws		No.	Nun. entri	Num	Меа	Меа	Меа	UL-File	Part No.
	40	09	/		32				165X10819X
	4	15			39.3	14.8	12.1		165X10829X
	B CD	25	- 1	2	53.2			E202784	165X10839X
		37			69.5				165X10849X
A	A	50			29	17.8	14.6		165X10859X
Type 2 without jack screws									
	55	09	/	-	32				165X11159X
		15			39.3	14.8			165X10869X
8/18	B B B B B B B B B B B B B B B B B B B	25	- 1	2	53.2			E202784	165X10879X
***	0 0	37			69.5				165X10889X
<b>A</b>	A A	50			29	17.8	14.6		165X10899X
Cable clamp		٨	lo. of p	poles	(	Cable	diam	eter	
	24		09-3	37		3-1	3-12 mm		160X11189X
	81		50			5-14 mm			160X11199X
d from Arrow.com.									CONEC® 5   1

### D-SUB HOODS AND ACCESSORIES EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast

oles
of straight cable
of side cable entries
: A [mm]
: B [mm]
: C [mm] Cable clamp must be ordered separately On request:
• M3 thread
• Crimp flange

Variable cable entries	of pol	nber of ies	nber of	sure 4	asure E	) ansc	asure L
Type 1 Jack screws	No.	Nur	Nar	Me	Me	Mea	Ме

riable cable entries		f po	er of	er of	nre,	ure l	nre (	ane	e	
Type 1 Jack screws		No. o	Number of entries	Numb	Measure A	Measure L	Measure (	Meas	UL-File	Part No.
		09		/	31	35.5				165X11609X
		15		1	39.4		14.8	12.1		165X11619X
(A)	(a)	25	1		53.2	40	1	72	E202784	165X11629X
		37		2	9.69					165X11639X
**************************************	C	50			29	42	17.8	14.6		165X11649X



D-SUB HOODS AND ACCESSORIES EMI / RFI shielding			ht cable	Number of side cable entries	ıJ	ıJ	ıJ	lι		Cable clamp must be ordered separately On request: • M3 thread • Crimp flange
D-SUB Metal Hoods, Zinc die-cast Variable cable entries		No. of poles	Number of straight cable entries	er of side a	Measure A [mm]	ıre B [mr.	Measure C [mm]	Measure D [mm]	ø	
Type 2 Jack screws		No. o	Numb entries	Numb	Меаѕ	Меаѕ	Меаѕ	Меаѕ	UL-File	Part No.
		09		/	31	50.5				165X14409X
		15		1	39.4		14.8	12.1		165X14419X
A	A	25	1		53.2	55	71	7	E202784	165X14429X
	ω	37		2	9.69					165X14439X
A	.   4				29	57	17.8	14.6		165X14449X
Cable clamp		٨	Vo. of	pole	S	Cal	ble di	iame	ter	
	24		09-	37			3-12	mm		160X11189X
	88	50			5-14	mm		160X11199X		

**CONIC**® 5 | 149 Downloaded from Arrow.com.

D-SUB Metal Hoods, Zinc die-cast Variable cable entries  Type 2 Jack screws	to. of poles	Number of straight cable	of side ca	Measure A [mm]	B [mm]	[mm]	[mm]		Crimp flange
	10. of p	er .	_			~	Ü		
	<	Numb	Number	Меаѕиге	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09		/	31	50.5				165X14409X
	15		1	39.4		∞.	12.1		165X14419X
	25	1		53.2	55	14.8		E202784	165X14429X
	37		2	9.69					165X14439X
A	50			29	57	17.8	14.6		165X14449X
Cable clamp		No. o	f pole	25	Ca	ble d	iame	eter	
24		09	)-37			3-12	mm		160X11189X
81		Ē	50		5-14		5-14 mm		160X11199X

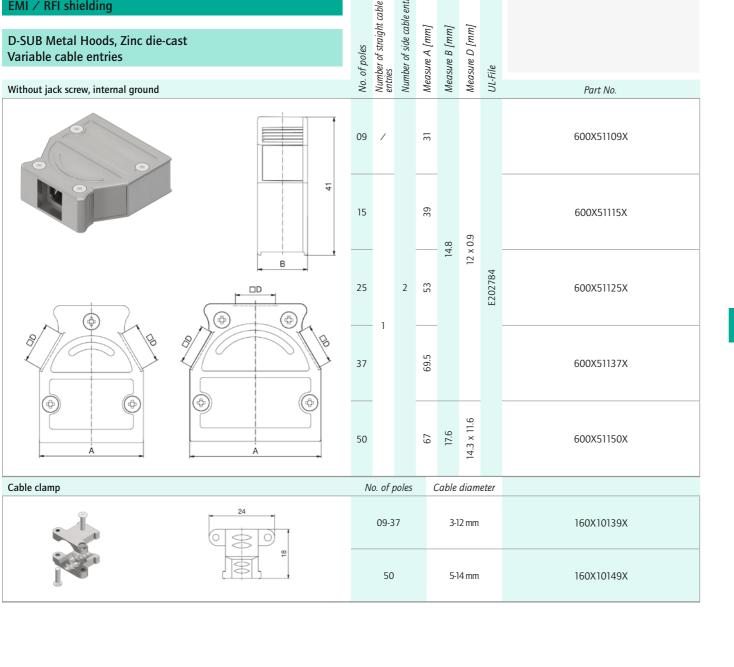
### D-SUB HOODS AND ACCESSORIES EMI / RFI shielding Cable clamp On request: • Crimp flar No. of poles Number of straight cable entries Number of side cable entries Measure A [mm] Measure D [mm] UL-File D-SUB Metal Hoods, Zinc die-cast Variable cable entries Slide lock 09 / 15 14.8 25 2 23.2 67 17.8 14.6 Cable clamp No. of poles Cable diameter 09-37 3-12 mm 50 5-14 mm Locking hooks for slide lock 09-37 50



p must be ordered separately ange
mge
Part No.
165X11659X
165X11669X
165X11679X
165X11689X
165X11699X
160X11189X
160X11199X
165X10119X
103/10/13/
165X10129X

D-SUB Hoods AND Accessor EMI / RFI shielding  D-SUB Metal Hoods, Zinc die-ca Variable cable entries		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	ile	Cable clamp must be ordered separately
Without jack screw, internal ground		No.	Num entriè	Num	Меа	Меа	Меа	UL-File	Part No.
		09	/		31				600X51109X
N	14	15			39	14.8	12 × 0.9	_	600X51115X
	B B	25	- 1	2	53	-	12.3	E202784	600X51125X
8		37			69.5				600X51137X
A	A	50			29	17.6	14.3 x 11.6		600X51150X
Cable clamp		Ν	lo. of p	oles	C	able	diam	eter	
	24		09-3	7		3-12 mm			160X10139X
	8		50			5-14 mm			160X10149X

**CONIC**® 5 | 151 Downloaded from Arrow.com.



### D-SUB Hoods and Accessories D-SUB Metal Hoods, Zinc die-cast Variable cable entries 4-40 UNC jack screw 31 37.2 15 8 × 9.00 09 (0) 39 15 1 • 5 53 42.7 **(** Cable clamp No. of poles Cable diameter 09-37 3-12 mm



ble clamp must be ordered separately request: M3 thread  Part No.  600X51209X  600X51215X  600X51225X	
Part No.  600X51209X  600X51215X	nble clamp must be ordered separately n request: M3 thread
600X51215X 600X51225X	мэ ингии
600X51215X 600X51225X	
600X51215X	Part No.
600X51225X	600X51209X
	600X51215X
160X10139X	600X51225X
	160X10139X

D-SUB Hoods AND Accessorif EMI / RFI shielding  D-SUB Metal Hoods, Zinc die-cast Side cable entry, jack screws	ES	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure D [mm]	UL-File	Cable clamp must be ordered separately On request: • M3 thread
With jack screw, internal ground		No.	Nun	Nun	Ме	Ме	UL-	Part No.
		09			31	10 × 9.2		600X51309X
	A 56	15	/	1	39	9.2	E202784	600X51315X
		25			53	12 x 9.2		600X51325X
Cable clamp	le clamp					e dian	neter	
	24		09-25		3-12 mi			160X10139X

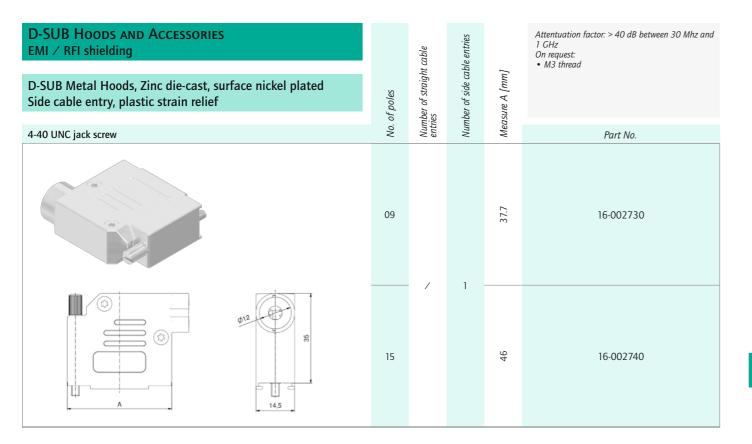
**CONIC**® 5 | 153



### D-SUB HOODS AND ACCESSORIES EMI / RFI shielding D-SUB Metal Hoods, Zinc die-cast, surface nickel plated Straight cable entry, plastic strain relief 4-40 UNC jack screw 4-40 UNC jack screw



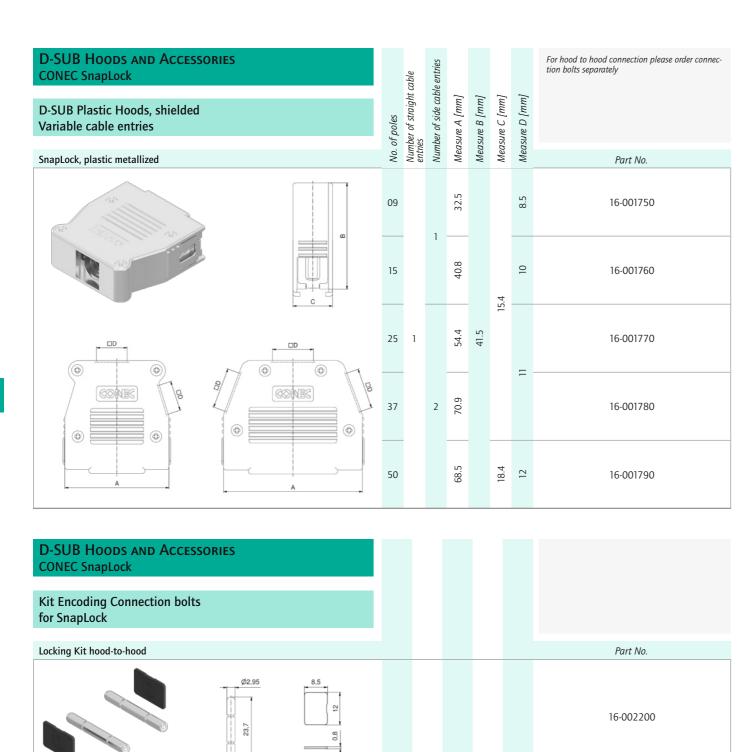
	ple	entries					Attentuation factor: > 40 dB between 30 Mhz and 1 GHz On request: • M3 thread
	Number of straight cable	Number of side cable entries	4 [mm]	[mm]	[mm]		• M3 thread
	lumber of	nunes Iumber of	Measure A [mm]	Measure B [mm]	leasure L	UL-File	Don't Mr.
•	< < 0	w <	<	~	~	7	Part No.
0	9		31.2	38.3			165X02609X
						_	
1	5		39.3	40.5			165X02619X
	_ 1	/			4 - 13	E202784	
2	5		53.4	17.8	,	E2	165X02629X
				4			
			6	2			
3	7		6.69	52.			165X02639X
				2			
0	9		31	36.2			165X02689X
						-	
1	5		39.5				165X02699X
			·		13	784	
	_ /	1			4 - 13	E202784	
2	5		53.2	40.2			165X02709X
			7.				105,005,00
3	/		69.7				165X02719X



D-SUB HOODS AND ACCESS CONEC SnapLock			ght cable	Number of side cable entries	n]	nJ	n]	mJ	For hood to hood connection please order connection bolts separately
D-SUB Plastic Hoods, unshielde Variable cable entries	/d		Number of straight cable entries	ber of side	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	
SnapLock, plastic black		No. of poles	Num	Num	Меа	Меа	Меа	Меа	Part No.
		09		1	32.5			8.5	16-001810
Nº 12		15		1	40.8		15.4	10	16-001820
(b) (b)		25	1		54.4	41.5	15	11	16-001830
		37		2	70.9			_	16-001840
A	A	50			68.5		18.4	12	16-001850

**CONEC**® 5 | 155

Downloaded from	Arrow.co





CONE® 5 | 157

Downloaded from Arrow.com.

D-SUB Plastic Hoods, unshielded Side cable entry	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	easure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	
Plastic black, jack screws with plastic head 4-40 UNC	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Nu	Nu	Me	Me	Me	Me	77	Part No.
	09			31.3			∞		165X11709X
	15			39.62		15	6		165X11719X
8	25	/	1	53.52	39.15		11	E202784	165X11729X
	37			8.69					165X11739X
A	50			67.41		19	14.5		165X11749X
Plastic black, jack screws 4-40 UNC									
	09			31.3			∞		165X00829A
	15			39.62		15	6		165X00839A
	25	/	1	53.52	39.15		11	E202784	165X00849A
	37			8.69					165X00859A
A	50			67.41		19	14.5		165X00869A

### D-SUB Hoods and Accessories D-SUB Plastic Hoods, unshielded Side cable entry Plastic grey, jack screws with plastic head 4-40 UNC Part No. $\infty$ 165X16019X 6 15 165X16029X 25 / 1 53.52 88.39.15 165X16039X Ξ 37 165X16049X 19 50 165X16059X Plastic grey, jack screws 4-40 UNC $\infty$ 165X16069X 09 15 165X16079X +7 25 / 1 23.52.8 165X16089X = 8.69 37 165X16099X 19 50 165X16109X



Downloaded from Arrow.com.

D-SUB Plastic Hoods, shielded Side cable entry	PRIES	of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	sure B [mm]	sure C [mm]	Measure D [mm]	ile	Attentuation factor at 10 MHz > 60dB
Plastic black, jack screws with plastic he	ad 4-40 UNC	No.	Num	Num	Меа	Меа	Меа	Меа	UL-File	Part No.
		09			31.3			∞		165X11759X
		15 68	39.62		15	6		165X11769X		
		25	/	1	53.52	39.15		11	E202784	165X11779X
CONEC	GENEG	37			8.69					165X11789X
A		50			67.41		19	14.5		165X11799X
Plastic black, jack screws 4-40 UNC										
		09			31.3			80		165X00779A
		15			39.62		15	6		165X00789A
8	_ c _	25	/	1	53.52	39.15		11	E202784	165X00799A
CENES		37			69.8					165X00809A
A	A	50			67.41		19	14.5		165X00819A

### D-SUB Hoods and Accessories Attentuation factor at 10 MHz > 60dB No. of poles Number of straight cable entries Number of side cable entrie D-SUB Plastic Hoods, shielded Side cable entry Plastic grey, jack screws with plastic head 4-40 UNC Part No. $\infty$ 165X16119X 09 6 15 165X16129X +ф 25 / 1 25.85 21.68 165X16139X Ξ 37 165X16149X 19 50 165X16159X Plastic grey, jack screws 4-40 UNC $\infty$ 165X16169X 09 15 165X16179X 5 [ 25 / 1 23.52 8.83 9.15 165X16189X Ξ 8.69 37 165X16199X 19 50 165X16209X



# Integrated cable clamping On request: • M3 thread D-SUB Hoods and Accessories

**CONEC**® 5 | 161 Downloaded from Arrow.com.

D-SUB Plastic Hoodss, two part Straight cable entry		o. of poles	Number of straight cal	umber of side cable	Measure A [mm]	Measure B [mm]	leasure C [mm]	Measure D [mm]	UL-File	• NIS UNIEUU
Plastic black, 4-40 UNC jack screws		ž	8 N	Ž	Z	Z	Z	Z	2	Part No.
		09			34	25	¢7	8.5		165X10139X
		15			42.3		14.5	10		165X10149X
	ØD ØD	25	1	/	26	37	1	10.5	E202784	165X10159X
		37			72.5			)1		165X10169X
A	A	50			29	49.1	19.8	14		165X10179X
Plastic metallized, 4-40 UNC jack screws										
		09			34	25		8.5		165X10909X
	9	15			42.3		10	01		165X10919X
M øp M	© ØD ØD	25	1	/	26	37	14.5	10.5	E202784	165X10929X
		37			72.5			10		165X10939X
A	A	50			29	49.1	19.8	14		165X10949X

### D-SUB Hoods and Accessories No. of poles Number of straight cable entries D-SUB Plastic Hoods, two part Straight cable entry, Cable-to-cable connection Plastic black, 4-40 UNC jack screws 4-40 UNC hex bolt 09 25 1 Plastic metallized, 4-40 UNC jack screws 4-40 UNC hex bolt 09 15 25 1 50



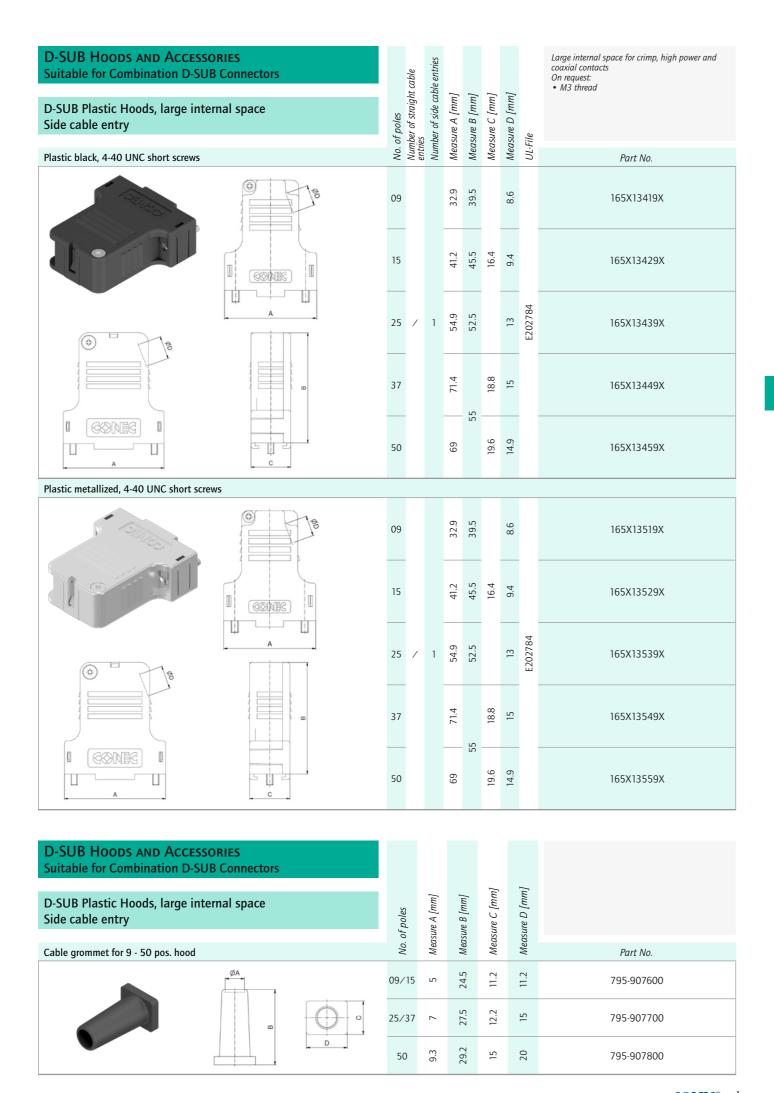
Number of side cable entries	ısure A [mm]	Measure B [mm]	sure C [mm]	sure D [mm]	UL-File	Integrated cable clamping On request: • M3 thread
Num	Меа	Меа	Меа	Меа	-TO	Part No.
	34	25		8.5		165X10239X
	42.3		14.5	10		165X10249X
/	26	37	1	10.5	E202784	165X10259X
	72.5			_		165X10269X
	29	49.1	19.8	14		165X10279X
	34	25		8.5		165X11009X
	42.3		14.5	10		165X11019X
/	26	37	_		E202784	165X11029X
				2.5		
	72.5			10.5		165X11039X
	67 72.5	49.1	19.8	14 10.5		165X11039X 165X11049X

D-SUB Plastic Hoods, large internal s Straight cable entry	D-SUB HOODS AND ACCESSORIES Suitable for Combination D-SUB Connectors  D-SUB Plastic Hoods, large internal space Straight cable entry  Plastic black, 4-40 UNC short screw		Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Large internal space for crimp, high power and coaxial contacts On request:  • M3 thread
Plastic black, 4-40 UNC short screw	80		e 8	~	32.9 N	39.5 N	N	N	٥	Part No. 165X13369X
*ing		09			37	36		=	_	103/13303/
0 1		1_	41.2	45.5	16.3			165X13379X		
		25	1	/	54.9	52.5		12	E202784	165X13389X
	3 a	37			71.4	52.5	18.7	15		165X13399X
	C	50			69	22	19.5	14		165X13409X
Plastic black, 4-40 UNC jack screws										
William .	ØD	09			32.9	39.5		-1		165X03309A
		15			41.2	45.5	16.3	_		165X03319A
		25	1	/	54.9	52.5		12	E202784	165X03329A
	4	37	37	71.4	55.5	18.7	15		165X03339A	
	c	50			69	55	19.5	14		165X03349A
Plastic metallized, 4-40 UNC short screws										
P	(a) (b)	09			32.9	39.5		11		165X13469X
		15			41.2	45.5	16.3			165X13479X
		25	1	/	54.9	52.5		12	E202784	165X13489X
	1	37		71.4	55.5	18.7	15		165X13499X	
	C				69	52	19.5	14		165X13509X

Plastic black, 4-40 UNC short screw		No. of poles	Number of straigh	Number of side $lpha$	Measure A [mm	Measure B [mm	Measure C [mm	Measure D [mm	UL-File	Part No.
Plastic black, 4-40 UNC short screw	_ ØD _	<	< 0	<	<	<	<	<	7	Part No.
Willey !	0 0	09			32.9	39.5		11		165X13369X
		15			41.2	45.5	16.3			165X13379X
	<u> </u>	25	1	1 / 24 5 25 25 25 25 25 25 25 25 25 25 25 25 2	12	E202784	165X13389X			
		37			71.4	55.5	18.7	15		165X13399X
	c	50			69	55	19.5	14		165X13409X
Plastic black, 4-40 UNC jack screws										
	ØD (6)	09			32.9	39.5		_		165X03309A
		15			41.2	45.5	16.3	11		165X03319A
		25	1	/	54.9	52.5		12	E202784	165X03329A
		37			71.4	55.5	18.7	15		165X03339A
	c	50	50		69	55	19.5	14		165X03349A
Plastic metallized, 4-40 UNC short screws	,———									
1-3/102	Ø Ø	09			32.9	39.5				165X13469X
		15			41.2	45.5	16.3	11		165X13479X
	A SACHES M	25	1	/	54.9	52.5		12	E202784	165X13489X
	1 5 d	37			71.4	55.5	18.7	15		165X13499X
	c	50	50		69	55	19.5	14		165X13509X

D-SUB HOODS AND ACCESSORIES Suitable for Combination D-SUB Connectors						
D-SUB Plastic Hoods, large internal space	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	
Cable grommet for 9 - 50 pos. hood	No. 0	Меаѕі	Меаѕі	Meas	Meas	Part No.
ØA _	09/15	2	24.5	11.2	11.2	795-907600
	25/37	7	27.5	12.2	15	795-907700
D	50	9.3	29.2	15	20	795-907800





Downloaded from Arrow.com.

### D-SUB Hoods and Accessories Integrated cable clamping Measure A [mm] Measure B [mm] Measure C [mm] Measure D [mm] D-SUB Plastic Hoods, fixed screws Variable cable entries Plastic grey, 4-40 UNC short screws Part No. 31.2 165X11869X 39.5 15 165X11879X 25 1 165X11889X 10 69.7 37 165X11899X 18.5 50 165X11909X Plastic metallized, 4-40 UNC short screws 31.2 165X11919X SINKE 39.5 15 165X11929X 25 1 165X11939X 10 69.7 37 165X11949X 18.5 50 165X11959X 5 🗓 2



### D-SUB Hoods and Accessories Space-saving, side-by-side mounting Packaging: in pack units as a single package D-SUB Plastic Hoods, low profile Straight cable entry Plastic black, 4-40 UNC jack screws Part No. 35.8 09 165X16219X 38 165X16229X 25 165X16239X 165X16249X Plastic metallized, 4-40 UNC jack screws 35.8 09 165X16299X 15 165X16309X 25 165X16319X 165X16329X

	<b>CONIC</b> ® 5   167
Downloaded from Arrow.com.	

### D-SUB Hoods and Accessories Space-saving, side-by-side mounting Packaging: in pack units as a single package No. of poles Number of straight cable entries Number of side cable entrie: Measure A [mm] Measure C [mm] Measure D [mm] D-SUB Plastic Hoods, low profile Side cable entry Plastic black, 4-40 UNC short screws Part No. 09 165X16379X 38 15 165X16389X 25 165X16399X 37 165X16409X Plastic metallized, 4-40 UNC short screws 35.8 165X16459X 44.1 38 15 165X16469X 25 165X16479X 6 37 165X16489X



## Entries not in use are blanked off with blanking plugs D-SUB Hoods and Accessories

**CONIC**® 5 | 169 Downloaded from Arrow.com.

D-SUB Plastic Hoods, integrated strain Straight and side cable entry	relief	No. of poles	Number of straight entries	Number of side cabl	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	ile	
Plastic black, 4-40 UNC short screws		No.	Num	Num	Меа	Меа	Меа	Меа	UL-File	Part No.
	CD D	09			32	36.7		6.3		165X11239X
		15			40	38.2	16.5	8		165X11249X
		25	1	1	54.2	42.2	=	10.5	E202784	165X11259X
	d 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	37			70.6	47.2		11.5		165X11269X
	o				68.2	4	20.6	13.7		165X16539X
Plastic black, slide lock version including spring										
	18	09			32	36.7		6.3		165X11279X
		15			40	38.2	16.5	∞		165X11289X
		25	1	1	54.2	42.2	16	10.5	E202784	165X11299X
		37			70.6	47.2		11.5		165X11309X
	0	50			68.2	47	20.6	13.7		165X16549X

D-SUB Hoods and Accessories			able	Number of side cable entries						Entries not in use are blanked off with blanking plugs
D-SUB Plastic Hoods, integrated strain	relief		Number of straight cable entries	le cable	mm]	mm	mm]	mm]		
Straight and side cable entry	Teller	No. of poles	r of str	r of sic	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]		
		o. of	umbe	agun	easn	easn	easu	easu	UL-File	
Plastic metallized, 4-40 UNC short screws		>	≥ g	Ž	S	S	Z	Z	2	Part No.
00 430		09			32	36.7		6.3		165X11319X
		15			40	38.2	16.5	00		165X11329X
		25	1	1	54.2	42.2	1	10.5	E202784	165X11339X
	9	37			70.6	47.2		11.5		165X11349X
	c				68.2	47	20.6	13.7		165X16559X
Plastic metallized, slide lock version including spring										
	100	09			32	36.7		16.5 10.5 8 6.3 E202784		165X11359X
	(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	15			40	38.2	5.			165X11369X
		25	1	1	54.2	42.2	16		E202784	165X11379X
	00	37			9.02	.7		11.5		165X11389X
	c				68.2	47.	20.6	13.7		165X16569X
Locking hooks for 9-50 pos. hood No. of poles										
	$\langle \rangle$		09-	09-37						165X10119X
			5	0						165X16609X



D-SUB HOODS AND ACCESSORIES			0)	tries						Packaging: in pack units as a single package
			t cable	ble en	_	_	_	_		
D-SUB Plastic Hoods Side cable entry			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]	le .	
Plastic black, 4-40 UNC short screws		No. o	Numb entrie	Num	Меаз	Меаз	Меаѕ	Меаѕ	UL-File	Part No.
		09			31.5	37		8.5		600X54009X
		15			40	8	15.2	∞		600X54015X
	A	25	/	1	53.5		15	=	E202784	600X54025X
		37			70	4		_		600X54037X
	_ c				67.8		18.2	12		600X54050X
Plastic black, 4-40 UNC jack screws										
		09			31.5	37		8.5		600X55009X
		15			40		15.2	80		600X55015X
	ω 3	25	25 / 1	53.5		11	_	E202784	600X55025X	
		37			70	41		=		600X55037X
		50			67.8		18.2	12		600X55050X



D-SUB Hoods and Accessories			cable	le entries						Packaging: in pack units as a single package
D-SUB Plastic Hoods Side cable entry		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]	ile	
Plastic metallized, 4-40 UNC short screws		No.	Num	Num	Меа	Меа	Меа	Меа	UL-File	Part No.
		09			31.5	37		8.5		600X56009X
		15			40	m m	15.2	00		600X56015X
		25	/	1	53.5		15	11	E202784	600X56025X
		37			70	41		_		600X56037X
		50		829	67.8		18.2	12		600X56050X
Plastic metallized, 4-40 UNC jack screws										
		09		31.5	31.5	37	τί	8.5		600X57009X
		15			40	m)	15.2	œ 		600X57015X
		25	/	1	53.5		11	_	E202784	600X57025X
		37			70	4	_	=		600X57037X
		50		0.73	67.8		18.2	12		600X57050X



### D-SUB Hoods and Accessories **D-SUB Plastic Hoods** Straight and side cable entry Plastic black, 4-40 UNC short screws Part No. 7.5 09 165X13019X 165X13029X 25 1 1 55 5 165X13039X 71.3 37 165X13049X 69 50 20 12.5 50 165X13059X 3 🗓 Plastic black, 4-40 UNC jack screws 165X13079X 165X13089X 25 1 1 1 5 7 165X13099X 71.3 37 165X13109X 69 50 20 12.5 50 165X13119X 7 1 5

**CONIC**<sup>®</sup> 5 | 173

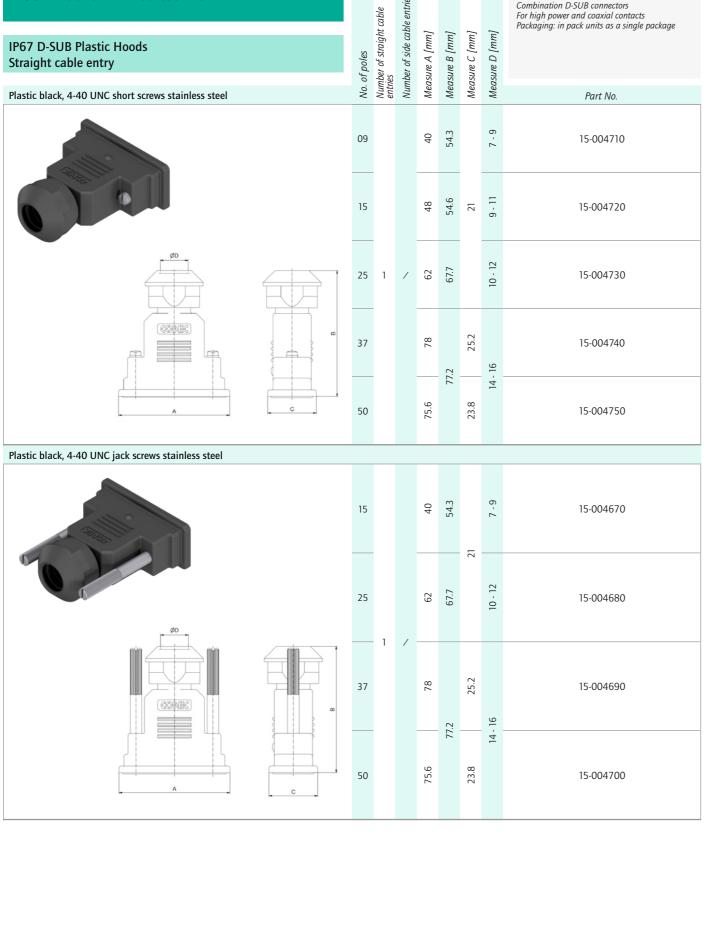


### This hood can only be used in conjunction with the special connector. Integrated strain relief On request: Available with bridged singal contacts D-SUB Hoods and Accessories **D-SUB Plastic Hoods** No. of poles With integrated crimp connector 7W2 Number entries Plastic black, short screws Philips Part No. Socket contact Part No. Plug contact 7W2 13-000220 13-002780 Plastic black, short scews Inbus 7W2 13-000210 13-002770 Plastic black, jack screws Philips 7W2 13-002760 13-000380 Plastic black, jack screws Inbus 13-000370 13-002750 7W2



D-SUB HOODS AND ACCESSORIES  IP67 D-SUB Plastic Hoods Straight cable entry  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]	Water resistant hood for Standard and Combination D-SUB connectors For high power and coaxial contacts Packaging: in pack units as a single package Part No.
		09			40	54.3	21	7 - 9	15-004710
		15			48	54.6		9 - 11	15-004720
		25	1	/	62	67.7		10 - 12	15-004730
					78	77.2	25.2	14 - 16	15-004740
A C		50			75.6	7	23.8	14	15-004750
Plastic black, 4-40 UNC jack screws stainless steel									
		15			40	54.3	21	6 - 7	15-004670
\$0 m	c	25	- 1		62	67.7	.7	10 - 12	15-004680
		37	I	/	78	7.	25.2	14 - 16	15-004690
A		50			75.6	77.2	23.8	14	15-004700

**CONIC**® 5 | 175 Downloaded from Arrow.com.



### Water resistant hood for Standard and Combination D-SUB connectors For high power and coaxial contacts Packaging: in pack units as a single package D-SUB Hoods and Accessories No. of poles Number of straight cable entries Number of side cable entrie Measure B [mm] Measure C [mm] Measure D [mm] Measure A [mm] **IP67 D-SUB Plastic Hoods** Straight cable entry Plastic metallized, 4-40 UNC short screws stainless steel Part No. 40 54.3 7 - 9 09 15-004810 48 54.6 21 9 - 11 15 15-004820 25 1 / 69 1. 15-004830 37 78 15-004840 15-004850 Plastic metallized, 4-40 UNC jack screws stainless steel 40 15 15-004770 10 - 12 25 62 67.7 15-004780 15-004790 4 50 15-004800



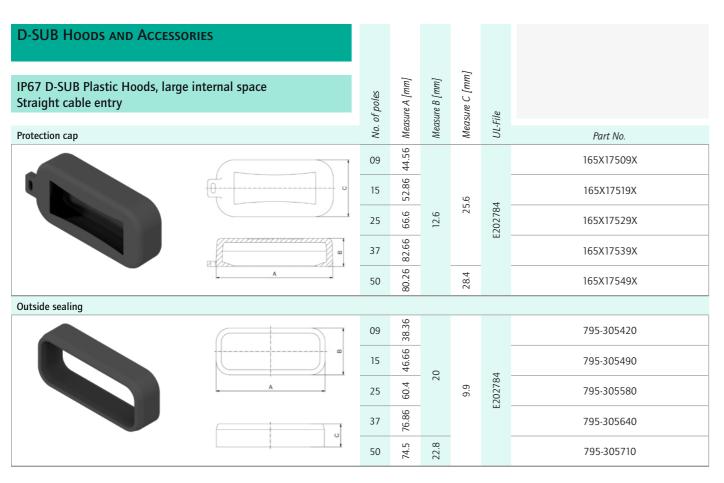
### D-SUB Hoods and Accessories Water resistant hood for Standard and Combination D-SUB connectors Large internal space for crimp, high power and No. of poles Number of straight cable entries Number of side cable entrie Measure A [mm] Measure C [mm] Measure D [mm] coaxial contacts Accessories: Protection cap and Outside sealing made from TPE IP67 D-SUB Plastic Hoods, large internal space On request: • M3 thread Straight cable entry Plastic black, 4-40 UNC jack screws Part No. 5 - 10 09 165X14819X 49.06 15 165X14829X 6 - 12 25 1 / 89 29 165X14839X 78.86 9 - 16 37 165X14849X 76.46 107 24.8 13 - 20 50 165X14859X Plastic black, 4-40 UNC short screws 40.76 09 165X14869X 49.06 15 165X14879X 25 1 / 165X14889X 78.86 37 165X14899X 76.46 107 24.8 13 - 20 50 165X14909X

**CONIC**® 5 | 177



### D-SUB Hoods and Accessories Water resistant hood for Standard and Combination D-SUB connectors Large internal space for crimp, high power and No. of poles Number of straight cable entries Number of side cable entrie Measure A [mm] Measure B [mm] Measure C [mm] Measure D [mm] Accessories: Protection cap and Outside sealing made from TPE IP67 D-SUB Plastic Hoods, large internal space On request: • M3 thread Straight cable entry Plastic metallized, 4-40 UNC jack screws 5 - 10 40.76 77 165X15019X 09 49.06 15 165X15029X 22 25 1 / 8.5 2.8 165X15039X 9 - 16 37 165X15049X 50 76.46 107 24.8 13 - 20 165X15059X Plastic metallized, 4-40 UNC short screws 40.76 5 - 10 09 165X15069X 49.06 15 165X15079X 7 - 12 25 1 / 165X15089X 78.86 9 - 16 37 165X15099X 76.46 107 24.8 13 - 20 50 165X15109X





D-SUB Hoods and Acces	SSORIES				Dust cap protecting connector mounting area Temperature range: -35°C +85°C
D-SUB protection caps Plastic design, for socket conn	nector	No. of poles	Measure A [mm]	Measure B [mm]	
Plastic black		No.	Меа	Меа	Part No.
	A A	09	22.9		160X10449X
		15	31.4	. 01	160X10459X
		25	44.7		160X10469X
		37	61.2		160X10479X
		50	58.8	12.8	160X10959X
Plastic metallized					
	A A A	09	22.9		600X518009X
		15	31.4		600X518015X
		25	44.7	- =	600X518025X
		37	61.2		600X518037X
		50	58.8	13.7	600X518050X

**CONEC**® 5 | 179

Downloaded	from	Arrow.com

D-SUB Hoods and Acce	ESSORIES				Dust cap protecting connector mounting area Temperature range: -35°C +85°C
D-SUB protection caps Plastic design, for plug connector		No. of poles	Measure A [mm]	Measure B [mm]	
Plastic black		No.	Мес	Mea	Part No.
		09	22.5		160X10409X
	A	15	30.65	- 01	160X10419X
	0	25	44.4		160X10429X
		37	60.75		160X10439X
		50	58.15	12.8	160X10969X
Plastic metallized					
	A A	09	22.5	· =	600X517009X
		15	30.65		600X517015X
		25	44.4		600X517025X
		37	60.75		600X517037X
		50	58.15	13.7	600X517050X

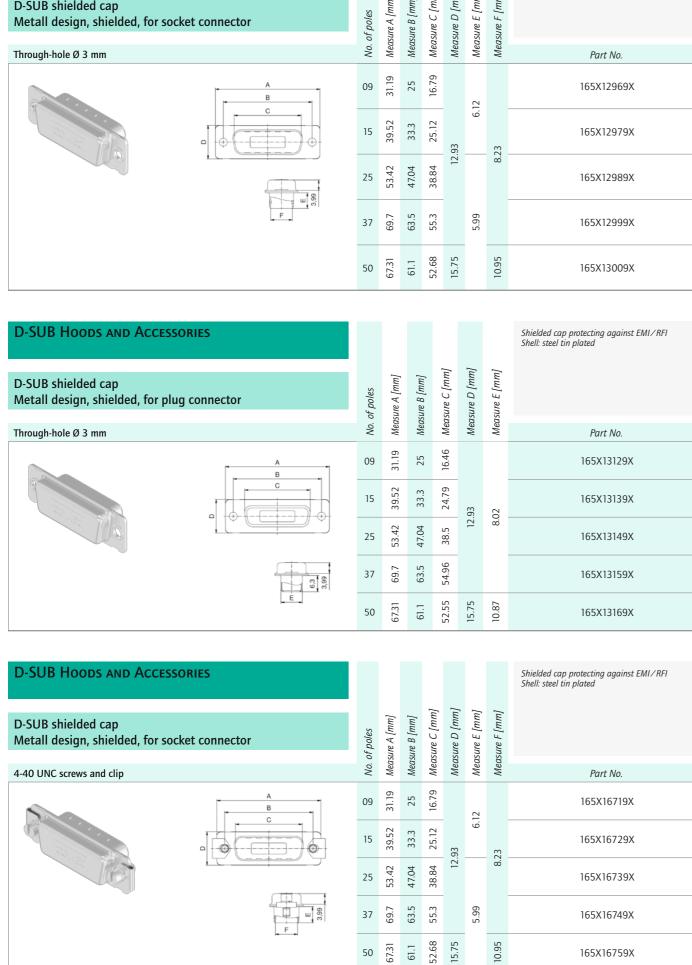


D-SUB Hoods and Access	ORIES								Shielded cap protecting against EMI/RFI Shell: steel tin plated
D-SUB shielded cap Metall design, shielded, for soc	ket connector	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	
Through-hole Ø 3 mm		No.	Меа	Меа	Меа	Меа	Меа	Меа	Part No.
	A B	09	31.19	25	16.79		6.12		165X12969X
	C	15	39.52	33.3	25.12	.93	.9	£.	165X12979X
		25	53.42	47.04	38.84	12.		8.23	165X12989X
	F 86.6	37	69.7	63.5	55.3		5.99		165X12999X
		50	67.31	61.1	52.68	15.75		10.95	165X13009X

D-SUB Hoods and Accesso	DRIES							Shielded cap protecting against EMI/RFI Shell: steel tin plated
D-SUB shielded cap Metall design, shielded, for plug	g connector	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	
Through-hole Ø 3 mm		No.	Мес	Мес	Ме	Me	Ме	Part No.
	A B	09	31.19	25	16.46			165X13129X
	C	15	39.52	33.3	24.79	12.93	8.02	165X13139X
		25	53.42	47.04	38.5	12.	8.	165X13149X
	3.99	37	69.7	63.5	54.96			165X13159X
	Ē	50	67.31	61.1	52.55	15.75	10.87	165X13169X

D-SUB Hoods and Access	SORIES								Shielded cap protecting against EMI/RFI Shell: steel tin plated
D-SUB shielded cap Metall design, shielded, for so	cket connector	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	
4-40 UNC screws and clip		No.	Меа	Меа	Мес	Мес	Мес	Мес	Part No.
Soo	A B C	09	31.19	25	16.79		6.12		165X16719X
		15	39.52	33.3	25.12	93	9	8.23	165X16729X
		25	53.42	47.04	38.84	12.		88	165X16739X
	B68.89	37	69.7	63.5	55.3		5.99		165X16749X
		50	67.31	61.1	52.68	15.75		10.95	165X16759X

**CONIC**® 5 | 181 Downloaded from Arrow.com.



D-SUB Hoods and Access	SORIES							Shielded cap protecting against EMI/RFI Shell: steel tin plated
D-SUB shielded cap Metall design, shielded, for plu	ug connector	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	
4-40 UNC screws and clip		No.	Меа	Меа	Меа	Меа	Меа	Part No.
Saa	A B	09	31.19	25	16.46			165X16769X
	c	15	39.52	33.3	24.79	12.93	22	165X16779X
		25	53.42	47.04	38.5	12.	8.02	165X16789X
	3.96	37	2.69	63.5	54.96			165X16799X
	E	50	67.31	61.1	52.55	15.75	10.87	165X16809X

D-SUB Hoods and Accessor  D-SUB shielded cap  Metall design, shielded, for sock		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Shielded cap protecting against EMI/RFI Shell: steel tin plated On request: • M3 thread
4-40 UNC jack screws		No.	Меа	Меа	Меа	Меа	Меа	Меа	Part No.
	A B C	09	31.19	25	16.79		6.12		165X16909X
		15	39.52	33.3	25.12	93	9	.23	165X16919X
		25	53.42	47.04	38.84	12.		80	165X16929X
	80°9	37	2.69	63.5	55.3		5.99		165X16939X
	F   60   80	50	67.31	61.1	52.68	15.75		10.95	165X16949X

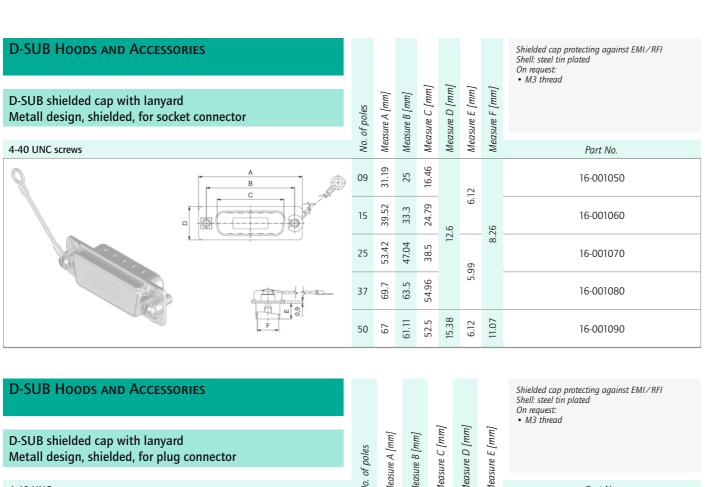
D-SUB Hoods and Accesso	ORIES							Shielded cap protecting against EMI/RFI Shell: steel tin plated On request: • M3 thread
D-SUB shielded cap Metall design, shielded, for plu	g connector	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	
4-40 UNC jack screws		No.	Меаѕ	Меаѕ	Меа	Меа	Меа	Part No.
	A B	09	31.19	25	16.79			165X17009X
	c	15	39.52	33.3	25.12	12.93	8.02	165X17019X
		25	53.42	47.04	38.84	12.	89.	165X17029X
		37	69.7	63.5	55.3			165X17039X
	E 8 8 8 8	50	67.31	61.1	52.68	15.75	10.87	165X17049X



g against EMI/RFI
t No.
16769X
16779X
16789X
16799X
16809X
against EMI/RFI
t No.
16909X
103037
16919X
16929X
103237
16939X
16949X
10343/\
against EMI/RFI
t No.
17009X
17019X
17029X
17039X
17049X

D-SUB Hoods and Accessor  D-SUB shielded cap with lanyar Metall design, shielded, for plug	d	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Shielded cap protecting against EMI/RFI Shell: steel tin plated On request: • M3 thread
4-40 UNC screws		No.	Меа	Меа	Меа	Меа	Меа	Part No.
9	A B C	09	31.19	25	16.79			16-001150
		15	39.52	33.3	25.12	12.6		16-001160
		25	53.42	47.04	38.84	12	ω -	16-001170
		37	2.69	63.5	55.3			16-001180
	E 80	50	29	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	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	ure F [mm]	Shielded cap protecting against EMI/RFI Shell: steel tin plated On request: • M3 thread
4-40 UNC steel jack screws	No. o	Меаѕі	Меаѕ	Меаѕ	Меаѕ	Меаѕ	Measure	Part No.
A B C C	09	31.19	25	16.46		12		16-000840
	15	39.52	33.3	24.79	2.6	6.12	97	16-000850
	25	53.42	47.04	38.5	12	66	8.2	16-000860
	37	69.7	63.5	54.96		5.99		16-000870
F	50	29	61.11	52.5	15.38	6.12	11.07	16-000890



#### Shielded cap protectin Shell: steel tin plated On request: • M3 thread D-SUB Hoods and Accessories Measure D [mm] sure C [mm] D-SUB shielded cap with lanyard Metall design, shielded, for plug connector 4-40 UNC steel jack screws 09 25 39.52 33.3 47.04 53.42 25 16-37 69 63.5 16-67 67 61.11 61.11 52.81 15.38 15.38 16-

D-SUB Hoods and Accessories								Shielded cap protecting against EMI/RFI Shell: steel tin plated On request: • M3 thread
D-SUB shielded cap with lanyard Metall design, shielded, for socket connector	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	- ms uneda
4-40 UNC stainless steel jack screws	No.	Меа	Меа	Меа	Меа	Меа	Меа	Part No.
A B C	09	31.19	25	16.46		6.12		16-000280
	15	39.52	33.3	24.79	12.6		26	16-000290
	25	53.42	47.04	38.5	12	5.99	8	16-000300
	37	2.69	63.5	54.96		5.6		16-000310
F _ F	50	29	61.11	52.5	15.38	6.12	11.07	16-000320

D-SUB Hoods and Accessories							Shielded cap protecting against EMI/RFI Shell: steel tin plated On request: • M3 thread
D-SUB shielded cap with lanyard Metall design, shielded, for plug connector	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	- ms unedu
4-40 UNC stainless steel jack screws	No.	Меаз	Меа	Меа	Меа	Меа	Part No.
A B B	09	31.19	25	16.79			16-000380
C	15	39.52	33.3	25.12	12.6	80	16-000390
	25	53.42	47.04	38.84	12	ω	16-000400
1	37	69.7	63.5	55.3			16-000410
E 0880	50	29	61.11	52.81	15.38	10.81	16-000420



ing against EMI/RFI
art No.
-000950
-000960
-000970
-000980
-000990
ing against EMI/RFI
art No.
-000280
-000290
-000300
-000310
-000320
ing against EMI/RFI
art No.
-000380
-000390
-000400
-000410
-000420

D-SUB Hoods and Access  IP67 D-SUB protection cap with Metall design, shielded, for so	ith gasket	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	IP67 Protection cap with gasket Protection against EMI/RFI Shell: steel tin plated On request: • M3 thread
4-40 UNC screws and clip	A	N		Me		Me	Me	Me	Part No.
	B C	09	31.19	25	16.79		6.12		165X14719X
		15	39.52	33.3	25.12	12.93	9	8.23	165X14729X
		25	53.42	47.04	38.84	12.		80	165X14739X
	3.99	37	2.69	63.5	55.3		5.99		165X14749X
	F 0 6	50	67.31	61.1	52.68	15.75		10.95	165X14759X
D-SUB Hoods and Acces	SORIES								IP67 Protection cap with gasket
IP67 D-SUB protection cap wi Metall design, shielded, for pl	ith gasket	No. of poles	Measure A [mm]	Modelie R [mm]	י י י י י י י י י י י י י י י י י י י	Measure C [mm]	Measure D [mm]	Measure E [mm]	Protection against EMI/RFI Shell: steel tin plated On request: • M3 thread
4-40 UNC screws and clip		No. 0	Меаѕ	Mode	IN COLO	Meas	Меаѕ	Меаѕ	Part No.
	A B C	09	31.19	75	6	16.46			165X14769X
		15	39.52	22		24.79	12.93	8.02	165X14779X
		25	53.42	47.04	t ): t	38.5	12.	8.0	165X14789X
	3.99	37	69.7	7 29		54.96			165X14799X
	_ E _	50	67.31	61 11	-	52.55	15.75	10.87	165X14809X
D-SUB Hoods and Access  IP67 D-SUB protection cap with	ith gasket	S	mml	mmj	[mm]	[mm]	[mm]	[mm]	IP67 Protection cap with gasket Protection against EMI/RFI Shell: brass tin plated Jack screws: stainless steel On request: • M3 thread
Metall design, shielded, for so	ocket connector	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	
4-40 UNC jack screws		No. c	Meas	Meas	Меа.	Меа.	Меа.	Меа.	Part No.
	A B C	09	31.19	25	16.79		6.12		165X17109X
		15	39.52	33.3	25.12	12.93	. 9	8.23	165X17119X
		25	53.42	47.04	36.84	12.		80	165X17129X
	3.99	37	2.69	63.5	55.3		5.99		165X17139X
	B 8 8 8	50	67.31	61.1	52.68	15.75		10.95	165X17149X

#### IP67 Protection cap with gasket Protection against EMI/RFI Shell: brass tin plated Jack screws: stainless steel On request: • M3 thread D-SUB Hoods and Accessories Measure D [mm] sure C [mm] IP67 D-SUB protection cap with gasket Metall design, shielded, for plug connector 4-40 UNC jack screws Part No. 25 31.19 165X17209X 53.42 39.52 47.04 33.3 33.3 165X17219X 12.93 165X17229X 37 69 63.5 165X17239X 67.31 61.1 52.55 165X17249X

D-SUB Hoods and Access	ORIES				]	lı	I	1	IP67 Protection cap with gasket Protection against EMI/RFI Shell: brass tin plated Lanyard: stainless steel Jack screws: stainless steel
IP67 D-SUB protection cap wit Metall design, shielded, for soc		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	On request: • M3 thread
4-40 UNC jack screws stainless steel		No.	Меа	Меа	Меа	Меа	Меа	Меа	Part No.
9	A B C	09	31.19	25	16.46		6.12		15-000010
		15	39.52	33.3	24.79	9:	9	56	15-000020
		25	53.42	47.04	38.5	12	5.99	œ	15-000030
		37	2.69	63.5	54.96		5.6		15-000040
	w 60	50	29	61.11	52.5	15.38	6.12	11.07	15-000050

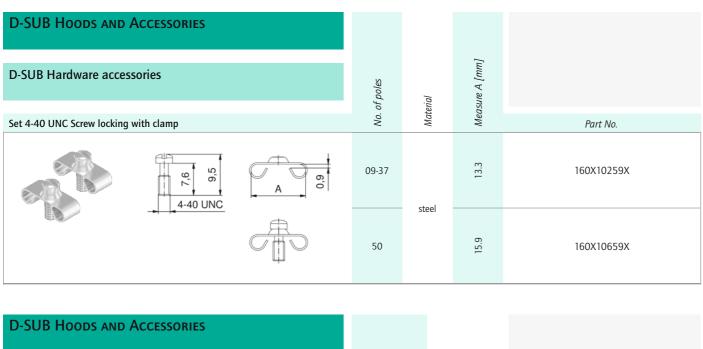
D-SUB HOODS AND ACCESS  IP67 D-SUB protection cap wit Metall design, shielded, for plu	h gasket and lanyard	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	IP67 Protection cap with gasket Protection against EMI/RFI Shell: brass tin plated Lanyard: stainless steel Jack screws: stainless steel On request: • M3 thread
4-40 UNC jack screws stainless steel		No.	Меа	Меа	Мес	Мес	Мес	Part No.
9	A B C	09	31.19	25	16.79			15-000110
		15	39.52	33.3	25.12	12.6	80	15-000120
		25	53.42	47.04	38.84	12	ω	15-000130
	0.00	37	69.7	63.5	55.3			15-000140
	F	50	29	61.11	52.81	15.38	10.81	15-000150

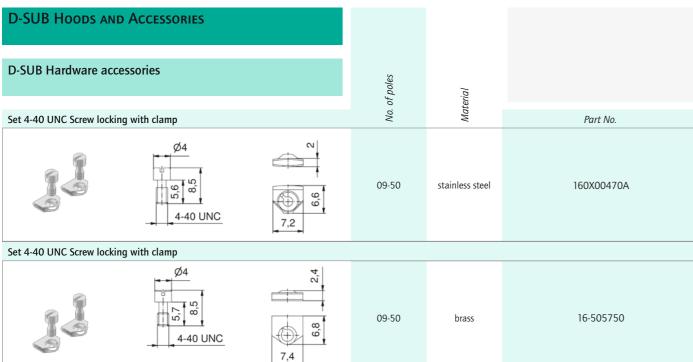


Internal thread	External thread	Part No.  740-353770  740-331370  740-331570  740-331670  740-354470  740-320570  740-342470
4-40 UNC		740-353770  740-331370  740-331570  740-331670  740-331670  740-354470  740-320570
	4-40 UNC	740-331370 740-331570 740-331870 740-331670 740-354470 740-320570
	4-40 UNC	740-331570 740-331870 740-331670 740-354470 740-320570
	4-40 UNC	740-331870 740-331670 740-354470 740-320570
МЗ		740-331670 740-354470 740-320570
МЗ		740-354470 740-320570
МЗ		740-320570
МЗ		
M3		740-342470
	МЗ	740-365270
- 440 UNC		740-354370
		740-320170
		740-344970
4-40 LINC	4-40 I INC	160X10359X
T to dive	T TO GIVE	160X10639X
МЗ	МЗ	160X10529X
440 UNC	4-40 UNC	160X10329X
		M3 M3

D-SUB Hoods and Accessories			
D-SUB Hardware accessories		nead	
		Internal thread	
Hex bolt nut .228" 5.8 mm		Inte	Part No.
	SW 5 8,8 14-40 UNC	4-40 UNC	160X10379X
Flat washer			
			765-329670
Spring ring			
			765-329570
Nut			
		4-40 UNC	765-329770
		МЗ	765-329870







**CONIC**® 5 | 189

Downloaded	from	Arrow.com
Downloaded	110111	/ 1110W.0011

# D-SUB Hardware accessories Set spring locking: 2 spring clips: 2 domps: 4 M3 screws 4 M3 screws 4 M3 nuts Part No.

D-SUB Hoods and Accesso	RIES					Slide lock Type 3 (for direct assembly to connector) • 1 frame • 2 self threading screws for plastic and metal
D-SUB Hardware accessories		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	
Set Slide lock Type 3		No. 6	Меаѕ	Меаѕ	Меаз	Part No.
الله الله الله الله الله الله الله الله	8	09	35	27.4	12	160X10159X
Light Reserved	A B	15	43.3	35.7	11.5	160X10169X
	0	25	57	49.4	. 21	160X10179X
		37	74.4	62.9	_	160X10189X
Assembly Example		50	72	63.5	15	160X10199X



D-SUB Hoods and Accesso  D-SUB Hardware accessories	RIES	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	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		No.	Меа	Меа	Меа	Part No.
مال المال	90	09	35	27.4	12	160X10689X
Lives es	A B	15	43.3	35.7	11.5	160X10699X
	0	25	57	49.4	12	160X10709X
		37	74.4	62.9	12	160X10719X
Assembly Example	4-40 UNC	50	72	63.5	15	160X10729X

D-SUB Hoods and Accessories  D-SUB Hardware accessories	No. of poles		Holding bolt set: • 2 hex bolts • 2 flat washers • 2 spring rings • 2 nuts
Set Holding bolt for slide lock type 3 + 4	No.		Part No.
4-40 UNC	09-50		160X10209X

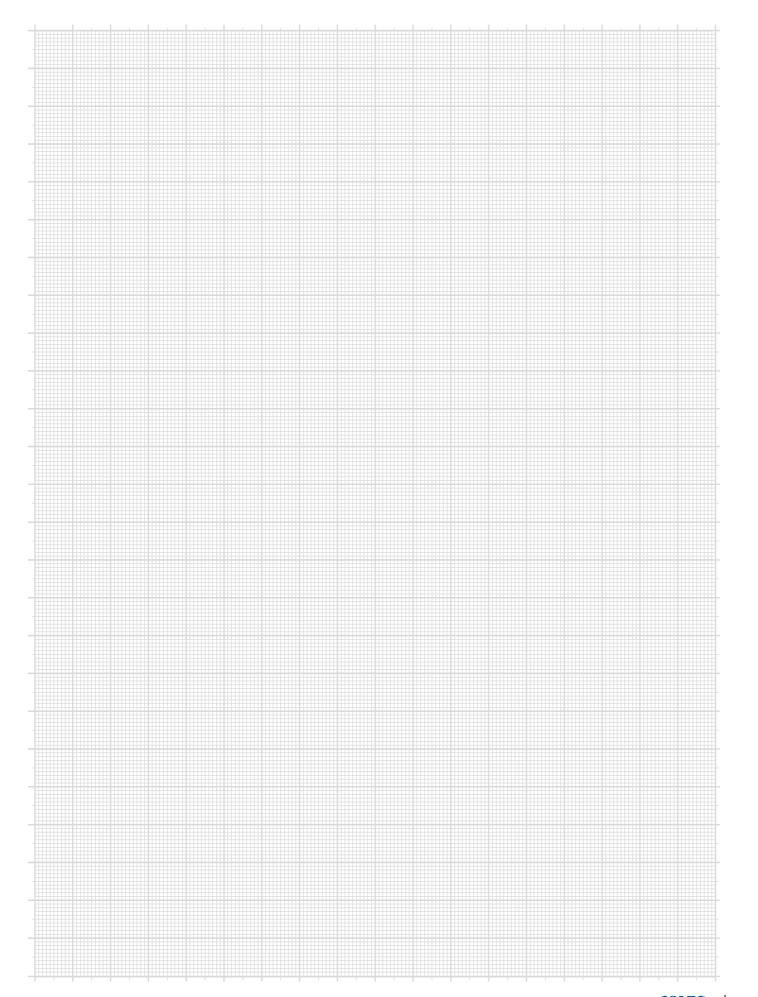


#### D-SUB Hoods and Accessories Blind mating - Plug-in system: Material: Steel nickel plated • Mounting for mating applications consist of frame and float mount • Frame is factory assambled Measure D [mm] Measure E [mm] sure C [mm] Measure A [mm] Measure B [mm] **D-SUB Hardware accessories** Blind mating frame Part No. 40.28 24.99 20.2 49.02 09 160X10889X 48.62 57.35 15 160X10899X 71.25 62.51 47.04 42.5 25 160X10909X 78.79 87.53 59.1 37 160X10919X 160X10929X Assembly Example

D-SUB Hoods and Accessories			Blind mating - Plug-in system guide pin Material: Steel nickel plated
D-SUB Hardware accessories	No. of poles		
Blind mating guide posts	No. 6		Part No.
92.9 90.9 90.9 440 UNC	09-50		160X10949X







# **IP67 D-SUB CONNECTORS**





#### **IP67 D-SUB CONNECTORS**

#### **Part Number Creator**

```
6 S T D O 9 S A M 9 9 B 3 O X
Product Line
6 = Shell brass tin plated with die-cast frame
      = 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
                         15 = 15-pos.
26 = 26-pos.
09 = 9-pos.
15 = 15-pos.
25 = 25-pos.
37 = 37-pos.
                         44 = 44-pos.
                         62 = 62-pos.
50 = 50-pos.
                         78 = 78-pos.
Contact type
     = Plug connector
    = 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
     = Solder pin, straight
     = Solder pin, angled, .189"/ 4.80 mm
     = Solder pin, angled, .189"/ 7.00 mm
     = Solder pin, angled, .189"/11.80 mm
      = Solder pin, angled, .189"/ 5.60 mm (high density design only)
     = 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

#### IP67 COMBINATION D-SUB CONNECTORS

#### Product specification

Basic material		D-SUB		ט	-SUB High Densi	ity
	SlimCon	Solid Body	Standard	SlimCon	Solid Body	Standard
Number of poles	9 - 25 pos.	9 - 50	pos.	15 - 44 pos.	15 - 1	78 pos.
Contact			Сорр	er alloy		
Contact plating			Gold ov	ver nickel		
nsulator			JL 94 V-0			
One-piece shell Zinc die-cast nickel plated	✓	✓		✓	✓	
Shell Brass tin plated (Stainless steel on request)			1			1
Technical data						
Test voltage			1000 V, 50 H	z, for 1 minute		
Working voltage		125 V AC/DC depending on	isolation coordination	n refer to DIN VDE 0110	60 V AC/DC ) / IEC 664-1	
Current rating	7.5	A (UL) / 5 A (CSA, VD	E)	3 /	A (UL) / 2.5 A (CSA, V	/DE)
Contact resistance		max. 10 mΩ prio	r to stressing △R max.	. 10 mΩ after stressing p	per IEC 60807-2	
Insulation resistance			≥ 5	i GΩ		
Clearance and creepage distance		ct - Contact ≥ 1.0 mm / oct - earth ≥ 1.2 mm /0			≥ 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
Mounting style Rear panel mounting/ 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 mr	n to 1.6 mm
Mounting style Front panel mounting			1			1
Mating and unmating forces	9 pos. ≤ 30 N 15 pos. ≤ 50 N 25 pos. ≤ 30 N	9 pos. ≤ 15 pos. ≤ 25 pos. ≤ 37 pos. ≤ 50 pos. ≤	5 50 N 6 83 N 6 123 N	15 pos. ≤ 50 N 26 pos. ≤ 84 N 44 pos. ≤ 120 N	26 po 44 po 62 po	s. $\leq$ 50 N s. $\leq$ 84 N s. $\leq$ 120 N s. $\leq$ 170 N s. $\leq$ 200 N
Quality class			B = Quality class 2 =	= 50 mating cycles = 200 mating cycles = 500 mating cycles		
Recommended wavesolder	Prehe	ating	Solde	r termial dipping parar	neters	
Recommended wavesolder parameters  IP67 D-SUB CONEC SlimCon and Solid Body	Prehe max. temperature	duration (max.)	max. Solder ba	r termial dipping parar ath temperature 5°C	max. terminal	immersion time 8 s

Technical specifications are subject to change without notice.

**CONEC** 6 | 197

#### IP67 D-SUB Connectors

Panel mounting

Front panel mounting



Back panel mounting



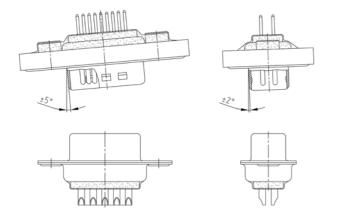
The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (standard & solid body)/.051"/1.3 mm (CONEC SlimCon) such that it does not extend beyond the plug-in height. Material: stainless steel.



#### IP67 D-SUB Connectors

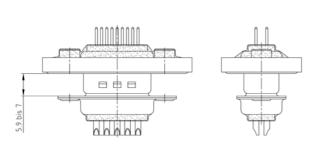
#### Mating conditions

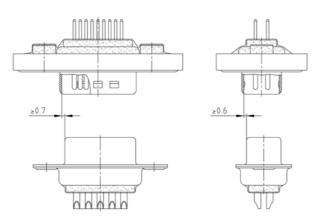
#### Max. tilt angle for connector mating



#### Range for safe contact

Lock-in range

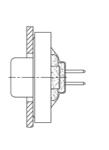


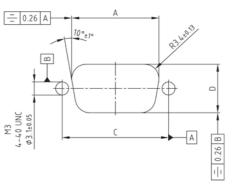


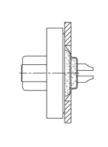
#### Panel cut-out

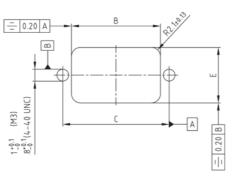
#### Back panel mounting

Front panel mounting









Shell size	<b>A</b> ±0.1	<b>B</b> ±0.1	<b>C</b> ±0.1	<b>D</b> ±0.1	<b>E</b> ±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.

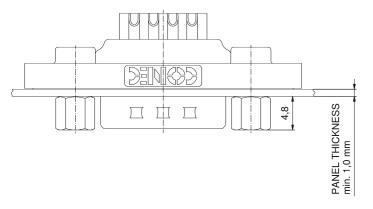
**CONEC** 6 | 199

Downloaded	from	Arrow.com

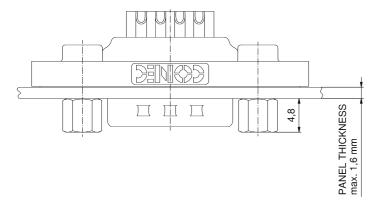
#### IP67 D-SUB CONNECTORS

# Assembly for series Solid Body and Standard Rear Panel Mounting

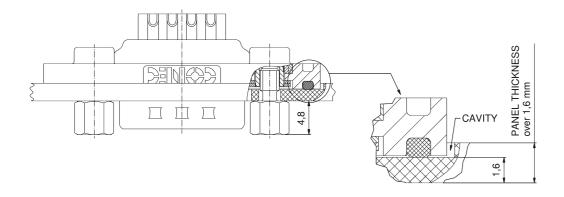
Panel thickness min. 1.0 mm



#### Panel thickness max. 1.6 mm



#### Panel thickness over 1.6 mm



Technical specifications are subject to change without notice.

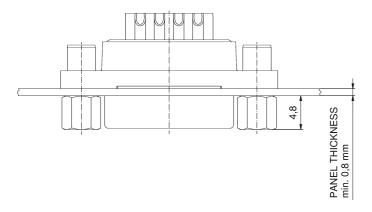




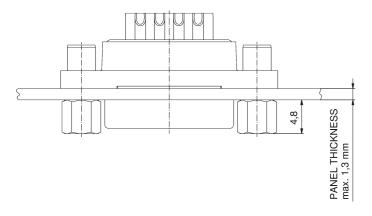
#### IP67 D-SUB Connectors

# Assembly for series CONEC SlimCon Rear Panel Mounting

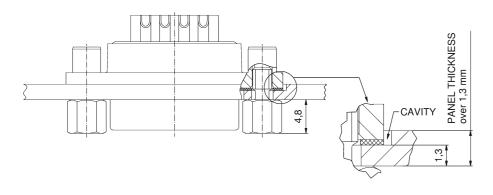
Panel thickness min. 0.8 mm



Panel thickness max. 1.3 mm



Panel thickness over 1.3 mm

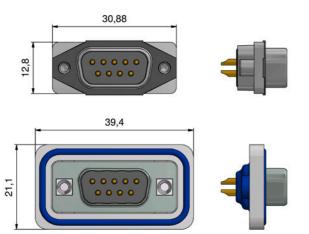


Technical specifications are subject to change without notice.

#### **IP67 D-SUB CONNECTORS**

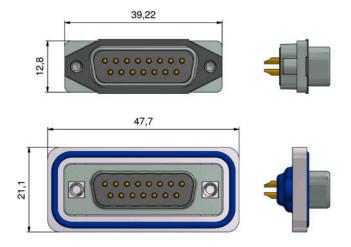
Size comparison
Series Standard/Solid Body versus series CONEC SlimCon

#### Size 1



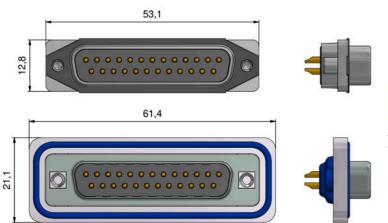
IP67 D-SUB CONEC SlimCon	IP67 D-SUB Standard/ Solid Body	Space-saving	Reduction of mounting space
30.88 mm	39.4 mm	8.3 mm / 13.5 %	52 %
12.8 mm	21.1 mm	8.3 mm / 39 %	52 %

#### 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 %	FO 0/
12.8 mm	21.1 mm	8.3 mm / 39 %	50 %

#### Size 3



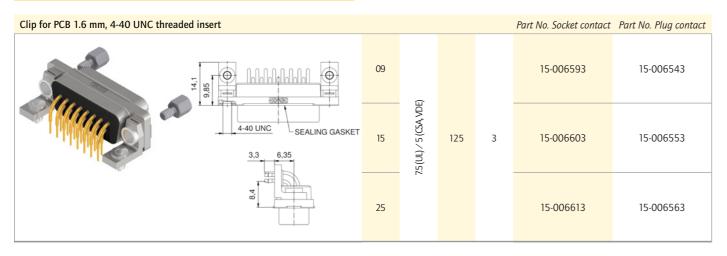
IP67 D-SUB CONEC SlimCon	IP67 D-SUB Standard/ Solid Body	Space-saving	Reduction of mounting space
53.1 mm	61.4 mm	8.3 mm / 13.5 %	40.0/
12.8 mm	21.1 mm	8.3 mm / 39 %	48 %

Technical specifications are subject to change without notice.



4-40 UNC threaded rear spacer	Part No. Socket contact	Part No. Plug contact					
	AR nonnondanonon AR	09	, VDE)			15-006493	15-006443
E. LANDER OF THE PARTY OF THE P	127	15	L) / 5 (CSA	125	3	15-006503	15-006453
	4-40 UNC SEALING GASKET	25	7.5 (UI			15-006513	15-006463

# Solder pin, angled, .331"/8.4 mm Precision machined contacts, metal bracket



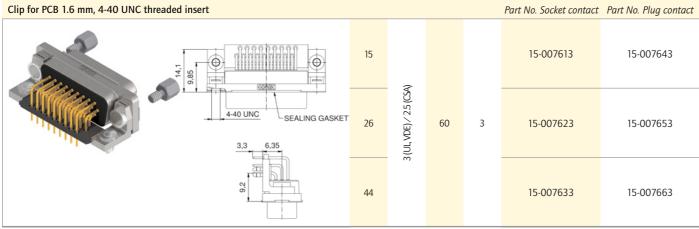
IP67 D-SUB CONNECTORS CONEC SlimCon  Solder cup Precision machined contacts, AWG 20		Current rating [A]	Working voltage [V]	Quality class	One-piece shell: zinc da Quality class 3 (A) = 5 On request: • Quality class 1 (C)	50 mating cyles
4-40 UNC threaded insert	No. of poles	Cu	Wo	пО	Part No. Socket contact	Part No. Plug contact
нининин н	09	, VDE)			15-006293	15-006243
4-40 UNC SEALING GASKET	15	7.5 (UL) / 5 (CSA, VDE)	3	15-006303	15-006253	
SEALING GASKET	25				15-006313	15-006263
4-40 UNC threaded insert (for cable assembly and overmould)						
<u> Анныныны</u>	09	, VDE)			15-006393	15-006343
4-40 UNC SEALING GASKET	15	.) / 5 (CSA, VDE)	125	3	15-006403	15-006353
SEALING GAGNET	25	7.5 (UL) /			15-006413	15-006363
Solder pin, straight Precision machined contacts						

# IP67 D-SUB HIGH DEN CONEC SlimCon Solder cup Precision machined contact 4-40 UNC threaded insert 4-40 UNC threaded insert (for ca

#### Solder pin, straight Precision machined contact

4-40 UNC threaded rear spacer clip		Part No. Socket contact	Part No. Plug contact					
			15	(CSA)			15-007553	15-007583
The same of the sa	5	4-40 UNC OF A UNC OF SUFFIX	26	VDE) / 2.5	60	3	15-007563	15-007593
The state of the s		4-40 UNC SEALING GASKET	44	3 (UL,			15-007573	15-007603

### Solder pin, angled, .362"/ Precision machined contact





c C o							
SIIY CO	ONNECTORS		Ą	s M		One-piece shell: zinc d Quality class 3 (A) = : On request: • Quality class 1 (C)	ie-cast nickel plated 50 mating cyles = 500 mating cycles
cts, AWG	i 22	No. of poles	Current rating [A]	Working voltage [V]	Quality class		
		ž	Ü	Ž	0	Part No. Socket contact	Part No. Plug contact
		15	2.5 (CSA)			15-007853	15-007823
	4-40 UNC SEALING GASKET	26	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007863	15-007833
		44	3 (UL			15-007873	15-007843
ble assem	ibly and overmould)						
		15	5 (CSA)			15-007673	15-007703
		26	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007683	15-007713
	4-40 UNC SEALING GASKET	44	3 (UL,			15-007693	15-007723
cts							
	R 1.6 mm					Part No Cocket cont	Part No Plus sortest
lip for PCI	0.1 o mm					rart No. Socket contact	Part No. Plug contact
	12.1	15	2.5 (CSA)			15-007553	15-007583
	N G G G G G G G G G G G G G G G G G G G	26	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007563	15-007593
		44	3 (UL,			15-007573	15-007603
9.2 mm	al bracket						
hreaded in	nsert					Part No. Socket contact	Part No. Plug contact
14,1		15	· (v			15-007613	15-007643
4-40 UNC SEALING GASKET		26	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007623	15-007653
			3(1			15-007633	15-007663

IP67 D-SUB CONNECTORS Standard Solid Body  Solder cup Precision machined contacts, AWG 20	No. of poles	Current rating [A]	Working voltage [V]	Quality class	One-piece shell: zinc di Quality class 3 (A) = 5 On request: • Quality class 1 (C) =	50 mating cyles
4-40 UNC threaded insert	No.	Curr	Wor	Qua	Part No. Socket contact	Part No. Plug contact
пинийний п	09				15-000613	15-000573
4-40 UNC O-RING	15	VDE)			15-000623	15-000583
	25	L) / 5 (CSA, VDE)	125	3	15-000633	15-000593
	37	7.5 (UL) /			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
	8. 8. 11. 11. 11. 11. 11. 11. 11. 11. 11	09				15-000453	15-000413
a supplied to the supplied to	4-40 UNC	15	, VDE)			15-000463	15-000423
		25	L) / 5 (CSA,	125	3	15-000473	15-000433
		37	7.5 (UL)			15-000483	15-000443
		50				15-002063	15-002053



#### **IP67 D-SUB CONNECTORS** One-piece shell: zinc die-cast nickel plated Quality class 3 (A) = 50 mating cyles Standard Solid Body On request: • Quality class 1 (C) = 500 mating cycles Solder pin, angled, .402"/10.2 mm Precision machined contacts, metal bracket Quality class Clip for PCB 1.6 mm, 4-40 UNC threaded insert Part No. Socket contact Part No. Plug contact 15-000733 09 15-000773 15-000743 15-000783 125 15-000793 15-000753 15-000803 15-000763 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

09
15
15
25
125
3
15-000853
15-000823
15-000833
15-000833
15-000843

IP67 D-SUB CONNECTORS High Density Solid Body			N		One-piece shell: zinc di Quality class 3 (A) = 5 On request:	60 mating cyles
Solder cup Precision machined contacts, AWG 22	No. of poles	Current rating [A]	Working voltage [V]	Quality class	• Quality class 1 (C) =	= 500 mating cycles
4-40 UNC threaded insert	No.	Cun	Wor	Ona	Part No. Socket contact	Part No. Plug contact
	15				15-000693	15-000653
4-40 UNC	26	2.5 (CSA)			15-000703	15-000663
O-RING	44	3 (UL, VDE) / 2.5	60	3	15-000713	15-000673
	62	3 (UL,			15-000723	15-000683
	78				15-002123	15-002113

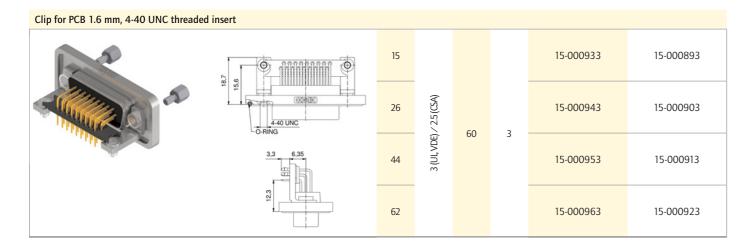


#### **IP67 D-SUB CONNECTORS** One-piece shell: zinc die-cast nickel plated Quality class 3 (A) = 50 mating cyles High Density Solid Body On request: • Quality class 1 (C) = 500 mating cycles Solder pin, straight Quality class Precision machined contacts 4-40 UNC threaded rear spacer clip for PCB 1.6 mm Part No. Socket contact Part No. Plug contact 15-000493 15 15-000533 15-000543 15-000503 60 15-000553 15-000513 15-000563 15-000523 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 threade	d insert					Part No. Socket contact	Part No. Plug contact
		15				15-002243	15-002193
	13.5	26	2.5 (CSA)			15-002253	15-002203
	- 0-RING	44	VDE) /	60	3	15-002263	15-002213
	3,14 6,35	62	3 (UL,			15-002273	15-002223
	26	78				15-002283	15-002233

Solder pin, angled, .484"/12.3 mm Precision machined contacts, metal bracket



**CONEC** 6 207

Downloaded from	Arrow.cor

#### **IP67 D-SUB CONNECTORS** Shell: Brass tin plated Quality class 3 (A) = 50 mating cyles Standard On request: • Stainless steel Working voltage [V] Current rating [A] • Quality class 1 (C) = 500 mating cycles • M3 thread Solder cup • Quality class 1 (c) = 500 muning cycles • M3 thread Part No. Socket contact Part No. Plug contact No. of poles Precision machined contacts, AWG 20 UL-File 4-40 UNC threaded insert 09 6STD09SAM99B30X 6STD09PAM99B30X 15 25 37 7.5 (UL) / 5 (CSA, VDE) 6STD15SAM99B30X 6STD15PAM99B30X 125 3 6STD25SAM99B30X 6STD25PAM99B30X 50

#### Solder pin, straight Precision machined contacts

4-40 UNC threaded insert							Part No. Socket contact	Part No. Plug contact
4-40 UNC O-RING	09			E202784		6STD09SAR99B30X	6STD09PAR99B30X	
	15	√VDE)				6STD15SAR99B30X	6STD15PAR99B30X	
	25	7.5 (UL) / 5 (CSA, VDE)	125		3	6STD25SAR99B30X	6STD25PAR99B30X	
		37	7.5 (UL		ш		6STD37SAR99B30X	6STD37PAR99B30X
		50					6STD50SAR99B30X	6STD50PAR99B30X
4-40 UNC threaded rear spacer clip for	PCB 1.6 mm							
		09					6STD09SAR99E20X	6STD09PAR99E20X
S A S A S A S A S A S A S A S A S A S A	15	A, VDE)		_		6STD15SAR99E20X	6STD15PAR99E20X	
	25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD25SAR99E20X	6STD25PAR99E20X	
		37	7.5 (UL		ш		6STD37SAR99E20X	6STD37PAR99E20X
		50					6STD50SAR99E20X	6STD50PAR99E20X



IP67 D-SUB CONNECTORS Standard  Solder pin, angled, .331"/8.4 mm Precision machined contacts, metal bracket		No. of poles	Current rating [A]	Working voltage [V]	le	Quality class	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 p Current Working UL-File		nF-I	Onc	Part No. Socket contact	Part No. Plug contact	
	93,18 09 15 3,3 6,35 25 25 37	09					6STD09SAT99S20X	6STD09PAT99S20X
Sugar S		15	VDE)				6STD15SAT99S20X	6STD15PAT99S20X
1 Trippe		125	E202784	3	6STD25SAT99S20X	6STD25PAT99S20X		
		37	7.5 (				6STD37SAT99S20X	6STD37PAT99S20X
		50				6STD50SAT99S20X	6STD50PAT99S20X	
Clip for PCB 1.6 mm, 4-40 UNC threaded	d insert							
		09					6STD09SAT99S40X	6STD09PAT99S40X
00	6 U U U U U U U U U U U U U U U U U U U	15	VDE)	75 (U1) / 5 (CSA, VDE)		3	6STD15SAT99S40X	6STD15PAT99S40X
	3,3 6,35	25	JL) / 5 (CSA, \		E202784		6STD25SAT99S40X	6STD25PAT99S40X
	4.8	37	) 57				6STD37SAT99S40X	6STD37PAT99S40X
		50					6STD50SAT99S40X	6STD50PAT99S40X

**CONEC** 6 209 Downloaded from Arrow.com.

IP67 D-SUB CONNECTORS Standard  Solder pin, angled, .331"/8.4 mm Precision machined contacts, metal bracket		s ina [A]	ing [A]	Working voltage [V]		S	Shell: Brass tin plated Quality class 3 (A) = 50 mating cyles On request: • Stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread	
		No. of poles	Current rating [A]	king vol	al.	Quality class		
4-40 UNC threaded insert		No.	Curi	Wor	UL-File	Ona	Part No. Socket contact	Part No. Plug contact
\$3,18 \$2'82'8	09					6STD09SAT99S20X	6STD09PAT99S20X	
William &	4-40 UNC	15	VDE)				6STD15SAT99S20X	6STD15PAT99S20X
· Halland	O-RING  3.3 6.35  25  (In) 57  (Ed. VS) 57  (In) 57	125	E202784	3	6STD25SAT99S20X	6STD25PAT99S20X		
	*	37					6STD37SAT99S20X	6STD37PAT99S20X
		50				6STD50SAT99S20X	6STD50PAT99S20X	
Clip for PCB 1.6 mm, 4-40 UNC threaded	insert							
	93.8	09					6STD09SAT99S40X	6STD09PAT99S40X
	440 UNC	15	ADE)				6STD15SAT99S40X	6STD15PAT99S40X
	3,3 6,35	25 (1n) 57 (1n) 27 (1n	125	E202784	3	6STD25SAT99S40X	6STD25PAT99S40X	
	48		7.5 (1				6STD37SAT99S40X	6STD37PAT99S40X
	<u> </u>	50					6STD50SAT99S40X	6STD50PAT99S40X

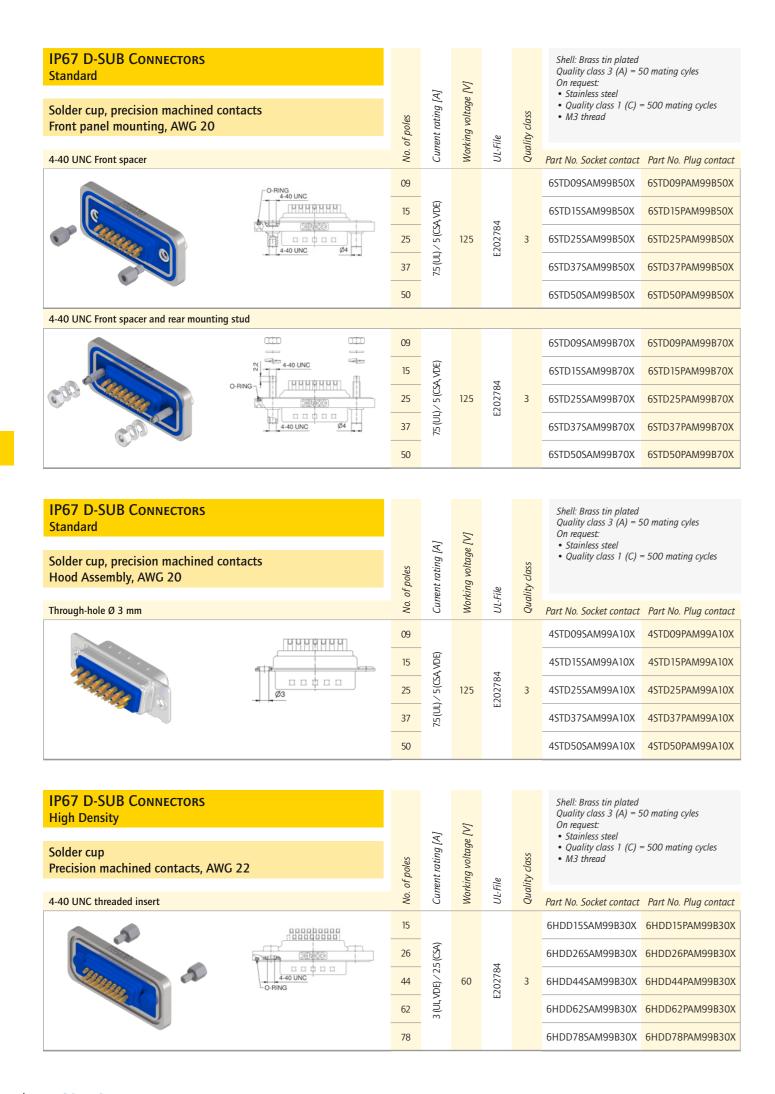
IP67 D-SUB CONNECTORS Standard  Solder pin, angled, .417"/10.6 n Precision machined contacts, me		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Shell: Brass tin plated Quality class 3 (A) = 50 mating cyles On request: • Stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread	
4-40 UNC threaded insert		No. 0	Curre	Work		Qual	Part No. Socket contact	Part No. Plug contact
	Ø3,18 Ø2,18 Ø3,18 Ø4-40 UNC O-RING	09					6STD09SAU99R20X	6STD09PAU99R20X
S S S S S S S S S S S S S S S S S S S		15	VDE)				6STD15SAU99R20X	6STD15PAU99R20X
THE PROPERTY OF THE PROPERTY O		25	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD25SAU99R20X	6STD25PAU99R20X
		37	7.5 (1				6STD37SAU99R20X	6STD37PAU99R20X
		50					6STD50SAU99R20X	6STD50PAU99R20X
Clip for PCB 1.6 mm, 4-40 UNC threaded	d insert							
	4.55 6.35	09					6STD09SAU99R40X	6STD09PAU99R40X
S. S. S.		15	VDE)		E202784		6STD15SAU99R40X	6STD15PAU99R40X
		25	7.5 (UL) / 5 (CSA, VDE)	125		3	6STD25SAU99R40X	6STD25PAU99R40X
		37	7.5 (L				6STD37SAU99R40X	6STD37PAU99R40X
<u> </u>	50					6STD50SAU99R40X	6STD50PAU99R40X	



P67 D-SUB CONNECTORS Standard Solder pin, angled, .606"/15.4 mm		55	Current rating [A]	Working voltage [V]		SS	Shell: Brass tin plated Quality class 3 (A) = 50 mating cyles On request: • Stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread		
Precision machined contacts, me	cts, metal bracket		ent ra	king v	ile:	Quality class			
4-40 UNC threaded insert		No. of poles Current ratir	Wor	UL-File	Qua	Part No. Socket contact	Part No. Plug contact		
	Ø3,18	09					6STD09SAZ99S20X	6STD09PAZ99S20X	
	4-40 UNC	15	(CSA, VDE)	CSA, VDE)	75 (UL) / 5 (CSA VDE)	E202784	3	6STD15SAZ99S20X	6STD15PAZ99S20X
ागभी 🗪	3,3 6,35	25	7.5 (UL) / 5	123	E202	J	6STD25SAZ99S20X	6STD25PAZ99S20X	
	4.81	37					6STD37SAZ99S20X	6STD37PAZ99S20X	
Clip for PCB 1.6 mm, 4-40 UNC threaded	d insert								
	33.5	09		125			6STD09SAZ99S40X	6STD09PAZ99S40X	
50	60 60 60 60 60 60 60 60 60 60 60 60 60 6	15	CSA, VDE)		784		6STD15SAZ99S40X	6STD15PAZ99S40X	
· Lidahila	3.3 6.35	25	Th.		E202784	3	6STD25SAZ99S40X	6STD25PAZ99S40X	
4.51	37					6STD37SAZ99S40X	6STD37PAZ99S40X		

**CONEC** 6 211

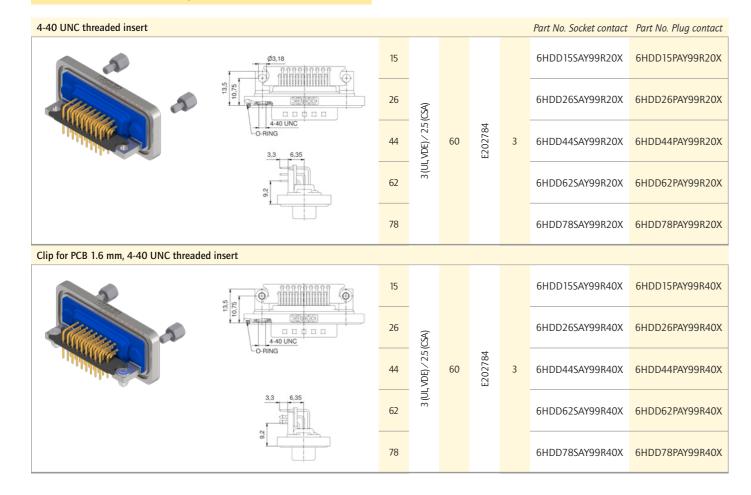
Downloaded from Arrow.com.	



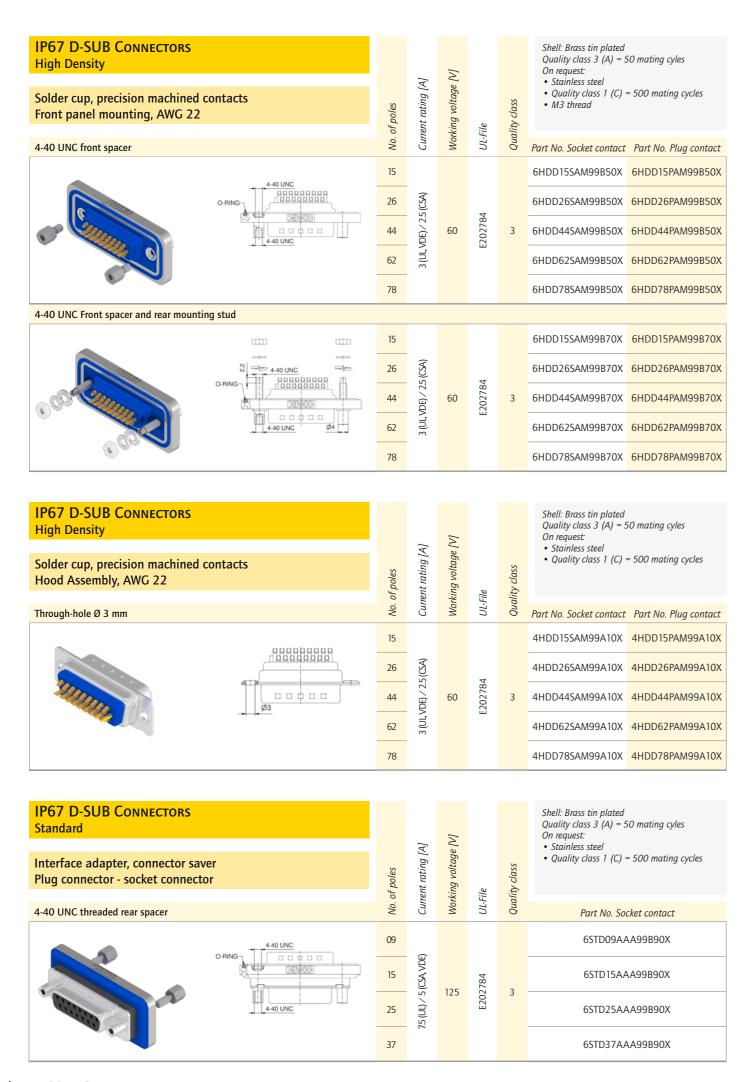


#### **IP67 D-SUB CONNECTORS** Shell: Brass tin plated Quality class 3 (A) = 50 mating cyles **High Density** On request: ent rating [A] • Quality class 1 (C) = 500 mating cycles Solder pin, straight • M3 thread **Precision machined contacts** Working Quality UL-File No. 4-40 UNC threaded insert Part No. Socket contact Part No. Plug contact 15 6HDD15SAR99B30X 6HDD15PAR99B30X 26 6HDD26SAR99B30X 6HDD26PAR99B30X 44 60 6HDD44SAR99B30X 6HDD44PAR99B30X 62 6HDD62SAR99B30X 6HDD62PAR99B30X 78 6HDD78SAR99B30X 6HDD78PAR99B30X 4-40 UNC threaded rear spacer clip for PCB 1.6 mm 15 6HDD15SAR99E20X 6HDD15PAR99E20X 3 (UL, VDE) / 2.5 (CSA) 6HDD26SAR99E20X 6HDD26PAR99E20X E202784 60 6HDD44SAR99E20X 6HDD44PAR99E20X 62 6HDD62SAR99E20X 6HDD62PAR99E20X 6HDD78SAR99E20X 6HDD78PAR99E20X

Solder pin, angled, .362"/9.2 mm
Precision machined contacts, metal bracket

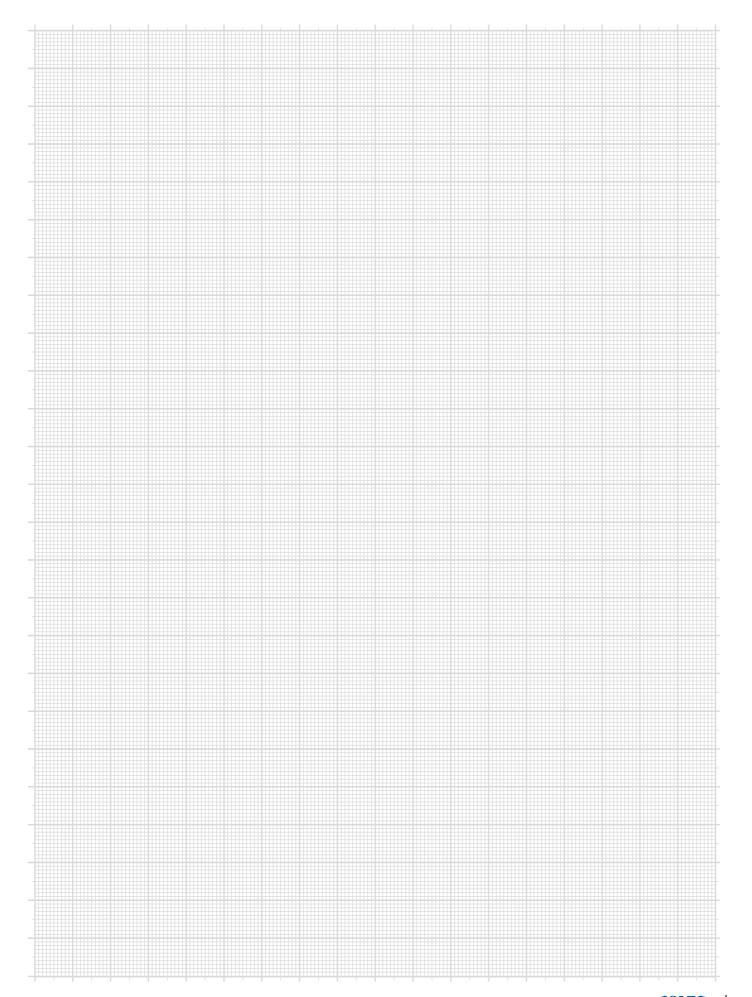


**CONEC** 6 213



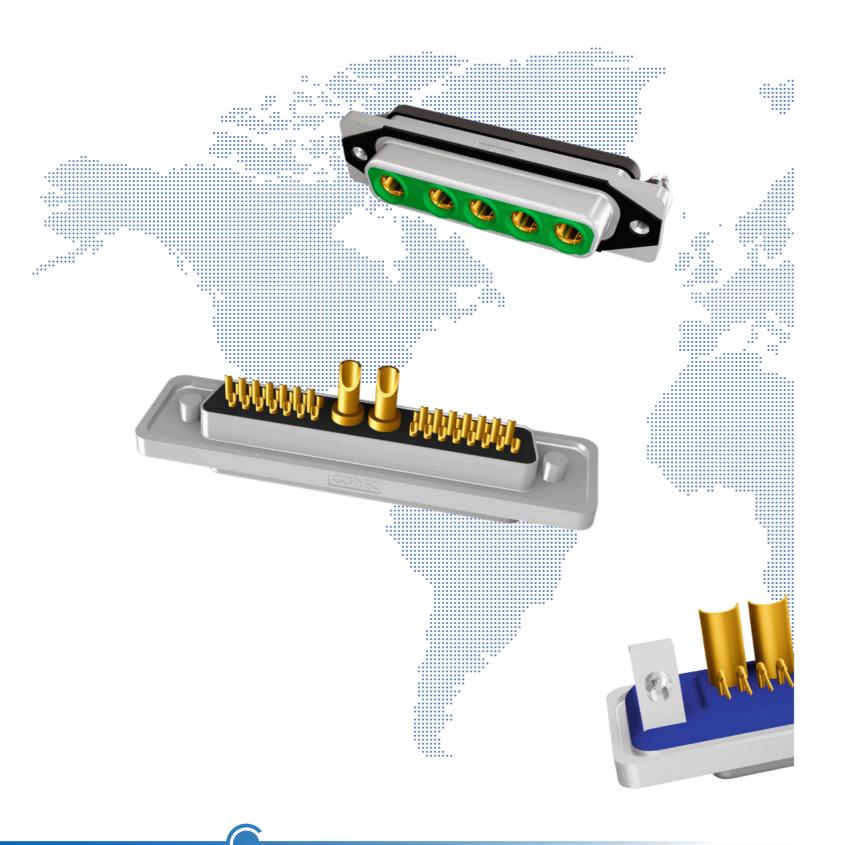






**CONEC** 6 215

# **IP67 Combination D-SUB Connectors**





#### **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 = Shell: Brass tin plated with die-cast frame = 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 = Plug connector = Socket connector Plating code/Quality class for signal contacts A = Quality class 3 = 50 mating cycles = Quality class 2 = 200 mating cycles = Quality class 1 = 500 mating cycles X = without signal contact Termination applies to signal contacts only M = Solder cup = Solder pin - Straight = Solder pin - Angled, .189"/4.80 mm = Solder pin – Angled, .276" / 7.00 mm = 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 Quality class 3 / Quality class 1 Quality class 3 / Quality class 1 61 / 41 = Solder cup 10 A 85 / 65 = Solder pin – Angled 30 A G9/78 = 3 solder pins angled $50 \Omega$ 62 / 42 = Solder cup 20 A 81 / 66 = Solder pin – Angled 20 A H1/79 = 3 solder pins angled $50 \Omega$ 68 / 48 = Solder pin - Straight 20 A, D= .077" 1.95 mm 82 / 67 = Solder pin - Angled 30 A H2/88 = 3 solder pins angled 75 $\Omega$ 69/49 = Solder pin - Straight 20 A, D= .102" 2.60 mm F9 / H4 = Cable connection straight 75 $\Omega$ 70 / 50 = Solder pin - Straight 20 A, D= .112" 2.85 mm G1 / H5 = Cable connection straight 75 $\Omega$ H3/89 = 3 solder pins angled 75 $\Omega$ R1 = Screw Crimp 10 A 71 / 51 = Solder pin – Straight 30 A, D= .125" 3.18 mm G2/H6 = Cable connection straight 50 $\Omega$ R2 = Screw Crimp 20A 72 / 52 = Solder pin – Straight 40 A, D= .148" 3.75 mm G3 / H7 = Cable connection straight 50 Ω = Screw Crimp 30A 59 / 55 = Solder pin – Angled 15 A G4/H8 = Cable connection straight 50 $\Omega$ = Screw Crimp 40A 73 / 56 = Solder pin – Angled 20 A G5/H9 = Cable connection straight 50 $\Omega$ 74 / 57 = Solder pin – Angled 30 A G6 / K1 = Cable connection straight 50 $\Omega$ 75 / 58 = Solder pin – Angled 40 A G7 / 76 = 3 solder pins straight $50 \Omega$ 77 / 60 = Solder pin – Angled 40 A G8/86 = 3 solder pins straight 75 $\Omega$ Mounting style A1 = Riveted through hole for hood assembly B3 = 4-40 UNC threaded insert B5 = 4-40 UNC front spacer = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" 1.60 mm E2 S2 = Metal bracket, 4-40 UNC threaded insert = Metal bracket, 4-40 UNC threaded insert and PCB clip R2 = Metal bracket, 4-40 UNC threaded insert = Metal bracket, 4-40 UNC threaded insert PCB clip

OX = Standard



# Product specification Standard

Basic material			Connect	ors with			
Dasic material	Signal contacts		Coaxial	contacts		High power contacts	
Contact			Coppe	r 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 (Stair	lless 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			
	dep	ending or	n 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			50/7	75 Ω			
Frequency range			0-2	GHz			
VSWR-value according MIL-C-39012			≤ 1.2 @ ≤ 1.3 @ ≤ 1.5 @	1.5 GHz			
Operating temperature			- 25 °C to	+ 105 °C			
Mounting style Front or rear panel mounting 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 B = Quality class 2 = C = Quality class 1 =	= 200 mating cycles			
Docommondod wave salden							
Recommended wave-solder parameters	Preheat Temperature	ting	duration	Solder to max. Solder bath tem		ipping parameters max. terminal immersion time	
IP67 Combination D-SUB	120 °C		120 s	240 °C		5 s	

Technical specifications are subject to change without notice

**CONEC** 7 219

Downloaded from Arrow.com.

Standard

# Product specification Solid Body

Basic material			nnectors with	
_	D-SUB signal contacts	HD-SUB signal contacts	Coaxial contacts	High power contacts
Contact		Сорре	er alloy	
Contact plating		Flash gold	over nickel	
Insulator (Connector)		PBT GF L	JL 94 V-0	
Insulator (Contacts)			PBT GF UL 94 V-0	
manater (contacts)			. 5. 6. 626 6	
Shell		Zinc die-cast	nickel plated	
Dataining die			Commo	
Retaining clip			Сорре	er 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
	Q.	epending on isolation coordination	refer to DIN VDE 0110 / IEC 664	-
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
contacts				
Insulation resistance	≥ 5 GΩ	max. 10 mΩ	≥ 1 GΩ	≥ 5 GΩ
cl			F0 (7F 0	
Characteristic impedance			50/75 Ω	
Frequency range			0-2 GHz	
VSWR-value according MIL-C-39012			≤ 1.2 @ 1.2 GHz	
			≤ 1.3 @ 1.5 GHz ≤ 1.5 @ 2.0 GHz	
Operating temperature		- 40 °C to	+ 105 °C	
Mounting style				
Front or rear panel mounting		min 1 mm	to 1.6 mm	
Panel thickness			1.0 1.1111	
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	
·		B = Quality class 2	= 200 mating cycles	
		C = Quality class 1 :	= 500 mating cycles	
Recommended wave-solder	Prehe	eating	Solder terminal di	ipping parameters
parameters	Temperature	duration	max. Solder bath temperature	max. terminal immersion time
IP67 Combination D-SUB	150 °C	180 s	265 °C	8 s

Technical specifications are subject to change without notice



# Product specification CONEC SlimCon

Basic material			Connectors with	
Dasic material	D-SUB signal contacts	HD-SUB signal contacts	Coaxial contacts	High power contacts
Contact		Сорре	er alloy	
Contact plating		Flash gold	over nickel	
Insulator		PBT GF L	JL 94 V-0	
Insulator			PTFE/PBTP/PI	
Shell		Zinc die-cast	nickel plated	
Retaining clip			Сорре	er 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 epending on isolation coordination	250 V AC/DC n refer to DIN VDE 0110 / IEC 664	250 V AC/DC
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 ≤ 1.3 @ 1.5 GHz ≤ 1.5 @ 2.0 GHz	
Operating temperature		- 40 °C bi:	s + 105 °C	
Mounting style Front or rear panel mounting Panel thickness		min. 0.8 mr	n 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		B = Quality class 2 :	= 50 mating cycles = 200 mating cycles = 500 mating cycles	
Recommended wave-solder	Dvoh	eating	Solder terminal di	ipping parameters
parameters	Temperature	duration	max. Solder bath temperature	max. terminal immersion tin
IP67 Combination D-SUB CONEC SlimCon	150 °C	180 s	265 °C	8 s

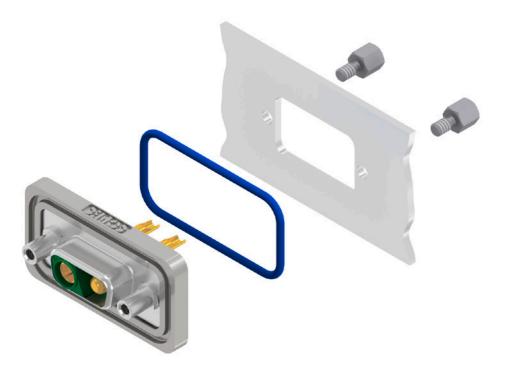
Technical specifications are subject to change without notice

**CONEC** 7 221

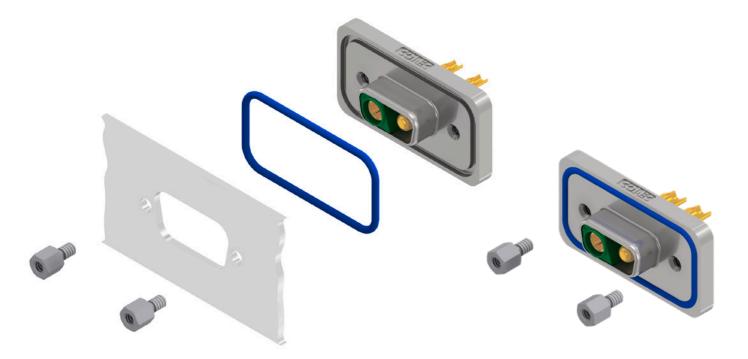
Downloaded from Arrow.com.

## Panel mounting

## Front panel mounting



## Back panel mounting



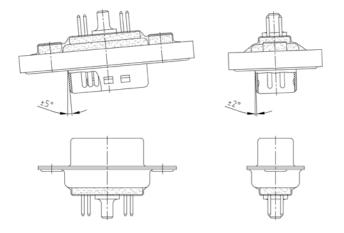
The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (standard & solid body)/.051"/1.3 mm (CONEC SlimCon) such that it does not extend beyond the plug-in height. Material: stainless steel.

Technical specifications are subject to change without notice.



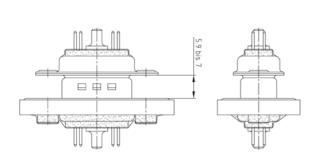
# Mating conditions

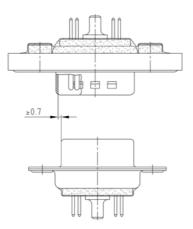
## Max. tilt angle for connector mating

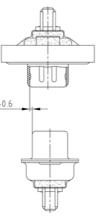


Range for safe contact

Lock-in range



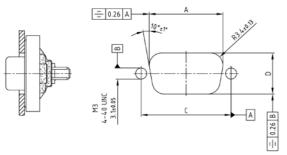




# Panel cut-out

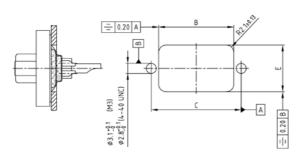
## Back panel mounting

Downloaded from Arrow.com.



Shell size	<b>A</b> ± 0.1	<b>B</b> ± 0.1	<b>C</b> ± 0.1	<b>D</b> ± 0.1	<b>E</b> ± 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

Front panel mounting



Technical specifications are subject to change without notice.

**CONEC** 7 | 223

IP67 COMBINATION D-SUB CO CONEC SlimCon with high power of Solder cup straight Precision machined contacts, AWG	ontacts 20 A	No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	One-piece zinc die-cast nich Quality class 3 (A) = 50 m Stainless steel hex bolts are On request: • Quality class 1 (C) = 50	ating cyles supplied loose
4-40 UNC threaded insert		No. 6	Curr	Worl	Qua	Part No. Socket contact	Part No. Plug contact
		3W3	20	250	3	15-007953	15-008083
	4-40 UNC SEALING GASKET	5W5	20	250	3	15-007963	15-008093
4-40 UNC threaded insert, coded version							
		2W2C	20	250	3	15-007933	
	4-40 UNC SEALING GASKET	3W3C	20	230	J	15-007943	15-008073

IP67 COMBINATION D-SUB CONNECTORS CONEC SlimCon with signal contacts & high power contacts 20	A		signal	high power	ge [V]		One-piece zinc die-cast nic. Quality class 3 (A) = 50 n Stainless steel hex bolts an On request: • Quality class 1 (C) = 50	nating cyles e supplied loose
Solder cup straight Precision machined contacts, AWG 20 and AWG 12-14  4-40 UNC threaded insert		No. of poles	Current rating contacts [A]	Current rating contacts [A]	Working voltage	Quality class	Part No. Socket contact	Part No. Plug contact
4-40 UNC SEALING GASKE	ĒΤ	7W2	7.5 (UL) / 5 (CSA VDE)	20	250	3	15-007973	15-008103



IP67 COMBINATION D-SUB CONNECTORS CONEC SlimCon with high power contacts 20 A Solder pin straight	S	Current rating high power	4	Betriebsspannung [V]	55	One-piece zinc die-cast nich Quality class 3 (A) = 50 m Stainless steel hex bolts are On request: • Quality class 1 (C) = 50	ating cyles supplied loose
Precision machined contacts  4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm	No. of poles	Current ratin	contacts [/	Betriebssp	Quality class	Part No. Socket contact	Part No. Plug contact
12.1	3W3	20		250	2	15-007083	15-007213
4-40 UNC SEALING GASKET	5W5	20	•	250	3	15-007093	15-007223
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm, coded version							
12.17	2W2C					15-007063	
4-40 UNC SEALING GASKET	3W3C	20		250	3	15-007073	15-007203
IP67 COMBINATION D-SUB CONNECTORS CONEC SlimCon with signal contacts & high power contacts 20 A Solder pin straight		g signal	Current rating high power contacts [A]	age [V]		One-piece zinc die-cast nicl Quality class 3 (A) = 50 m Stainless steel hex bolts are On request: • Quality class 1 (C) = 50	ating cyles supplied loose
Precision machined contacts	No. of poles	Current rating signal contacts [A]	ent rating	Working voltage [V]	Quality class		
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm	No. 6	Curr	Curr	Worl	Quai	Part No. Socket contact	Part No. Plug contact

4-40 UNC SEALING GASKET

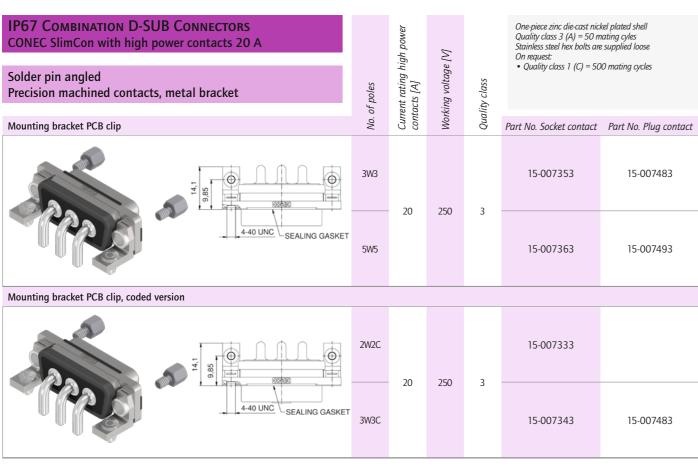
20 250 3

15-007103

15-007233

**CONEC** 7 225

Downloaded from Arrow.com.



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	No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	One-piece zinc die-cast nic Quality class 3 (A) = 50 m Stainless steel hex bolts are On request: • Quality class 1 (C) = 50	nating cyles e supplied loose
Mounting bracket PCB clip	No. o	Curre	Curre	Work	Qual	Part No. Socket contact	Part No. Plug contact
4,35 6,35	7W2	75 (UL) / 5 (CSA VDE)	20	250	3	15-007373	15-007503



	kel plated shell nating cyles e supplied loose 00 mating cycles
ontact	Part No. Plug contact
	15-007493
	15-007483
	kel plated shell nating cyles e supplied loose 00 mating cycles
ontact	Part No. Plug contact
	15-007503

# 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

vo. or pores
Current rating signal
contacts [A]
Current rating high power
contacts [A]
Working voltage [V]

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	0 0	CO	Wc	пО	Part No. Socket contact	Part No. Plug contact
5W1					15-005063	15-005193
W2					15-001103	15-004643
1W1					15-005073	15-005203
9W4					15-005083	15-005213
3W3					15-004563	15-004553
7W2					15-004453	15-004543
1W1	VDE)				15-005093	15-005223
3W6	7.5 (UL) / 5 (CSA, VDE)	20	250	3	15-005103	15-005233
7W5	UL) / 5	20	230	J	15-005113	15-005243
WA4	7.5 (				15-005123	15-005253
5W3					15-005133	15-005263
7W2					15-005143	15-005273
4W7					15-005153	15-005283
6W4					15-005163	15-005293
3W2					15-005173	15-005303
7W1					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					15-005323	15-005473
		7W2					15-001823	15-001863
	8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8	11W1					15-005333	15-005483
0	4-40 UNC	9W4					15-005343	15-005493
200	LO-RING	13W3					15-005353	15-005503
		17W2					15-005363	15-005513
		21W1	DE)				15-005373	15-005523
		13W6	7.5 (UL) / 5 (CSA, VDE)	20	250	2	15-005383	15-005533
		17W5	JL) / 5	20	250	3	15-005393	15-005543
		21WA4	7.5 (1				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

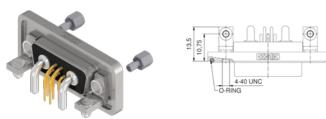


# IP67 COMBINATION D-SUB CONNECTORS Solid Body with signal & high power contacts 20 A

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 o. of poles
urrent rating signal
ontacts [A]
urrent rating high power
ontacts [A]
orking voltage [V]
uality class

# Mounting bracket PCB clip



	5 0 00 0	C\$5
13,5		<b>(</b>
- 0	8808	
\	1 10 1010	
-0-	4-40 UNC RING	

4,85	6,35
10,2	

No. 6	Curre	Curre	Worl	Quai		
>	0 8	0 8		0	Part No. Socket contact	Part No. Plug contact
5W1					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	(DE)				15-005673	15-005803
13W6	(CSA)	20	250	3	15-005683	15-005813
17W5	7.5 (UL) / 5 (CSA, VDE)	20	250	3	15-005693	15-005823
21WA4	7.5 (1				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 Consolid Body with high power contacts.  Solder cup straight Precision machined contacts, AW	acts 20 A	No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	One-piece zinc die-cast nici Quality class 3 (A) = 50 m Stainless steel hex bolts are On request: • Quality class 1 (C) = 50	nating cyles e supplied loose
4-40 UNC threaded insert		No. 6	Curr	Worl	Qua	Part No. Socket contact	Part No. Plug contact
	999	3W3				15-001083	15-001123
	4-40 UNC	5W5	20	250	3	15-001093	15-001133
	O-RING	8W8				15-001613	15-001653
4-40 UNC threaded insert, coded version							
		2W2C	- 20	250	3	15-001063	
	4-40 UNC	3W3C	- 20	250	3	15-001073	15-001113



#### **IP67 Combination D-SUB Connectors** One-piece zinc die-cast nickel plated shell Quality class 3 (A) = 50 mating cyles Stainless steel hex bolts are supplied loose Solid Body with high power contacts 20 A Current rating high p contacts [A] On request: • Quality class 1 (C) = 500 mating cycles Solder pin straight Quality class No. of poles Precision machined contacts 4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm Part No. Socket contact Part No. Plug contact 15-001803 15-001843 3W3 5W5 250 3 15-001813 15-001853 8W8 15-002023 4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm 15-001833 8W8 15-001783 250 20 3W3C 15-001793 15-005883

Solder pin angled Precision machined contacts, metal bracket

Mounting bracket PCB clip						Part No. Socket contact	Part No. Plug contact
		3W3				15-001443	15-001483
222 5	9 E1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5W5	20	250	3	15-001453	15-001493
	<sup>L</sup> Ö-RİNG	8W8				15-001963	15-001993
Mounting bracket PCB clip							
	13.5	2W2C	20	250	3	15-001423	
	4-40 UNC	3W3C	20	230	3	15-001433	15-001473

**CONEC** 7 229

Downloaded from Arrow.com.

# IP67 COMBINATION D-SUB CONNECTORS Solid Body with signal & high power contacts 20 A

Solder cup straight Precision machined contacts, AWG 12-14 Current rating signal contacts [A]
Current rating high powe contacts [A]
Working voltage [V] Signal Societ Contact Part No. Plug contact

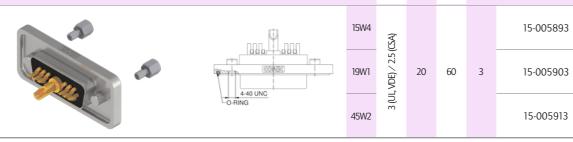
One-piece zinc die-cast nickel plated shell Quality class 3 (A) = 50 mating cyles Stainless steel hex bolts are supplied loose On request:
• Quality class 1 (C) = 500 mating cycles

15-005923

15-005933

15-005943

4-40 UNC threaded insert



# Solder pin straight Precision machined contacts

4-40 UNC front, threaded rear spacer cli	p for PCB 1.6 mm						Part No. Socket contact	Part No. Plug contact
	ele 00000 ct 00000	15W4	(CSA)				15-005953	15-005983
W. Company	10 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	19W1	,VDE) / 2.5	20	60	3	15-005963	15-005993
	O-RING	45W2	10) E				15-005973	15-006003

# Solder pin angled Precision machined contacts, metal bracket

Mounting bracket PCB clip								
	13.5	15W4					15-006013	15-006043
	4-40 UNC O-RING	19W1	3 (UL, VDE) / 2.5 (CSA)	20	60	3	15-006023	15-006053
	8.9	45W2	:1)				15-006033	15-006063



#### Shell: Brass tin plated Nickel plated die-cast frame Quality class 3 (A) = 50 mating cyles Stainless steel hex bolts are supplied loose **IP67 COMBINATION D-SUB CONNECTORS** Current rating signal contacts [A] Current rating high power contacts [A] With signal & high power contacts 10 A ı voltage [V] On request: • Shell: Stainless steel Solder cup Quality class 1 (C) = 500 mating cycles M3 thread No. of poles Precision machined contacts, AWG 20 Part No. Socket contact Part No. Plug contact 4-40 UNC threaded insert 5W1 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 6009W4SAM61B30X 6009W4PAM61B30X 13W3 3 6013W3SAM**61**B30X 6013W3PAM**61**B30X 17W2 3 6017W2SAM61B30X 6017W2PAM61B30X 21W1 (3W6 (2V YS)) 5 / (10) 57 (21) 21WA4 3 6021W1SAM**61**B30X 6021W1PAM**61**B30X 3 6013W6SAM**61**B30X 6013W6PAM**61**B30X 10 250 3 6017W5SAM**61**B30X 6017W5PAM**61**B30X 3 621WA4SAM**61**B30X 621WA4PAM**61**B30X 3 6025W3SAM**61**B30X 6025W3PAM**61**B30X 25W3 27W2 3 6027W2SAM61B30X 6027W2PAM61B30X 24W7 3 6024W7SAM61B30X 6024W7PAM61B30X For other Power contacts select code from spread sheet 36W4 3 6036W4SAM**61**B30X 6036W4PAM**61**B30X 3 6043W2SAM**61**B30X 6043W2PAM**61**B30X 43W2 16-20 10 A 12-14 20 A 62 47W1 3 6047W1SAM61B30X 6047W1PAM61B30X

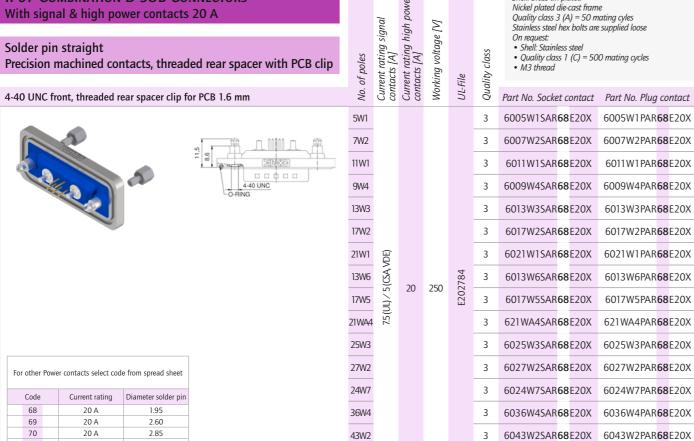
5WI 7W2 11WI 9W4 13W3 17W2 2IWI 13W6 25W3 20 250 250 250 250 250 250 250 3 6005W15AR68B30X 6005W1PA 3 6007W25AR68B30X 6007W2PA 3 6011W15AR68B30X 6011W1PA 3 6013W35AR68B30X 6013W3PA 3 6013W35AR68B30X 6017W2PA 3 6017W25AR68B30X 6017W2PA 3 6017W55AR68B30X 6017W5PA 3 6017W55AR68B30X 6017W5PA 3 6017W55AR68B30X 6017W5PA 3 6017W55AR68B30X 6017W5PA 3 6021W15AR68B30X 6017W5PA 3 6021W15AR68B30X 6017W5PA 3 6021W15AR68B30X 6021W1PA 3 6022W75AR68B30X 6027W2PA 3 6024W75AR68B30X 6025W3PA 3 6024W75AR68B30X 6025W3PA 3 6024W75AR68B30X 6024W7PA 3 6024W75AR68B30X 6024W7PA 3 6036W45AR68B30X 6024W7PA 3 6036W45AR68B30X 6024W7PA 3 6036W45AR68B30X 6036W4PA 3 6034W25AR68B30X 6043W2PA 3 60343W25AR68B30X 6043W2PA	ith signa older pin		D-SUB Cower contacts		poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Morking voltage [V]		Quality class	Shell: Brass tin plated Nickel plated die-cast fran Quality class 3 (A) = 50 n Stainless steel hex bolts an On request: • Shell: Stainless steel • Quality class 1 (C) = 50 • M3 thread	nating cyles e supplied loose	
SWI   7W2   11W1   9W4   13W3   17W2   21W1   13W6   17W5   21W44   25W3   25W3   25W3   24W7   24W7   26W3   20	40 UNC th	readed insert			No. of	Curren	Curren	Workii	UL-File	Qualit	Part No Socket contact	Part No. Plug	contact
7W2 11W1 9W4 13W3 17W2 21W1 13W6 17W5 21W44 25W3  For other Power contacts select code from spread sheet  Code Current rating Diameter solder pin 68 20 A 2.60 70 20 A 2.60 70 20 A 2.65 70 20 A 2.65 70 20 A 2.85  3 6007W2SAR68B30X 6007W2PA 3 6011W1SAR68B30X 6013W3PA 3 6013W3SAR68B30X 6013W3PA 3 6013W3SAR68B30X 6013W3PA 3 6017W2SAR68B30X 6013W3PA 3 6017W2SAR68B30X 6013W3PA 3 6017W2SAR68B30X 6013W3PA 3 6021W1SAR68B30X 6013W4PA 3 6027W2SAR68B30X 6013W4PA 3 6027W2SAR68B30X 6021W1PA 3 6027W2SAR68B30X 6021W1PA 3 6024W7SAR68B30X 6025W3PA 3 6024W7SAR68B30X 6024W7PA 3 6036W4SAR68B30X 6024W7PA	10 0110 111												
11W1 9W4 13W3 6013W3SAR68B30X 6011W1PA 3 6009W4SAR68B30X 6013W3PA 3 6013W3SAR68B30X 6013W3PA 3 6013W5SAR68B30X 6013W3PA 3 6013W5SAR68B30X 6013W6PA 3 6013W6SAR68B30X 6013W6PA 3 6013W6SAR68B30X 6013W6PA 3 6013W6SAR68B30X 6013W6PA 3 6021W1SAR68B30X 6013W6PA 3 6021WA4SAR68B30X 6013W6PA 3 6021WA4SAR68B30X 6013W6PA 3 6025W3SAR68B30X 6021WA4PA 3 6025W3SAR68B30X 6025W3PA 3 6025W3SAR68B30X 6025W3PA 3 6024W7SAR68B30X 6024W7PA 3 6024W7SAR68B30X 6024W7PA 3 6036W4SAR68B30X 6024W7PA 3 6036W4SAR68B30X 6024W7PA 3 6036W4SAR68B30X 6036W4PA 3 6036		60											
3   6009W4SAR68B30X   6009W4PA     3   3   6013W3SAR68B30X   6013W3PA     3   6017W2SAR68B30X   6013W3PA     3   6017W2SAR68B30X   6017W2PA     3   6013W6SAR68B30X   6013W6PA     3   6013W6SAR68B30X   6013W6PA     3   6013W6SAR68B30X   6013W6PA     3   6013W5SAR68B30X   6013W6PA     3   6013W6SAR68B30X   6013W6PA     3   6013W6SAR68B30X   6013W6PA     3   6013W5SAR68B30X   6013W6PA     3   6025W3SAR68B30X   6025W3PA     4   6025W3SAR68B30X   6024W7PA     3   6024W7SAR68B30X   6024W7PA     4   6025W3SAR68B30X   6024W7PA     4   6025W3					7W2					3	6007W2SAR <b>68</b> B30X	6007W2PAR	<b>58</b> B30X
17W2   21W1   13W6   17W5   19   20   25				A STATE OF THE STA	11W1					3	6011W1SAR <b>68</b> B30X	6011W1PAR	<b>58</b> B30X
17W2   21W1   13W6   17W5   19   20   25			0	4-40 UNC	9W4					3	6009W4SAR <b>68</b> B30X	6009W4PAR	<b>58</b> B30X
21W1   13W6   17W5   25   20   250				-O-HING	13W3					3	6013W3SAR <b>68</b> B30X	6013W3PAR	<b>58</b> B30X
13W6   250			J		17W2					3	6017W2SAR <b>68</b> B30X	6017W2PAR	<b>58</b> B30X
17W5   3   6017W5SAR68B30X   6017W5PA					21W1	Œ)				3	6021W1SAR <b>68</b> B30X	6021W1PAR	<b>58</b> B30X
17W5   21WA4   25W3   3   6017W5SAR68B30X   6017W5PA   3   621WA4SAR68B30X   621WA4PA   3   6025W3SAR68B30X   6025W3PA   3   6025W3SAR68B30X   6025W3PA   3   6025W3SAR68B30X   6025W3PA   3   6027W2SAR68B30X   6027W2PA   3   6024W7SAR68B30X   6024W7PA   3   6024W7SAR68B30X   6024W7PA   3   6024W7SAR68B30X   6024W7PA   3   6036W4SAR68B30X   6036W4PA   69   20 A   2.60   70   20 A   2.85   43W2   3   6043W2SAR68B30X   6043W2PA   6043W2PA   6043W2SAR68B30X   6043W2PA   6043W2PA   6043W2PA   6043W2PA   6043W2PA   6043W2PA   6043W2PA   6043W2PA   6043W2PA   6					13W6	CSA, VI			784	3	6013W6SAR <b>68</b> B30X	6013W6PAR	<b>58</b> B30X
21WA4					17W5	1)/5(	20	250	E2027	3	6017W5SAR <b>68</b> B30X	6017W5PAR	<b>58</b> B30X
For other Power contacts select code from spread sheet   27W2   3 6027W2SAR68B30X 6027W2PA					21WA4	7.5 (UI				3	621WA4SAR <b>68</b> B30X	621WA4PAR	<b>58</b> B30X
Code   Current rating   Diameter solder pin     24W7   3   6024W7SAR68B30X   6024W7PA     68   20 A   1.95     69   20 A   2.60     70   20 A   2.85     43W2   3   6043W2SAR68B30X   6043W2PA     6043W2					25W3					3	6025W3SAR <b>68</b> B30X	6025W3PAR	<b>58</b> B30X
Code         Current rating         Diameter solder pin         24W7         3 6024W7SAR68B30X 6024W7PA           68         20 A         1.95         36W4         3 6036W4SAR68B30X 6036W4PA           69         20 A         2.60         3 6036W4SAR68B30X 6036W4PA           70         20 A         2.85         43W2         3 6043W2SAR68B30X 6043W2PA	For other Dowe	or contacts coloct and	a from caread chaot		27W2					3	6027W2SAR <b>68</b> B30X	6027W2PAR	<b>58</b> B30X
Code         Current rating         Diameter solder pin           68         20 A         1.95           69         20 A         2.60           70         20 A         2.85           43W2         3 6043W2SAR68B30X 6043W2PA	roi otilei rowe	er contacts select cou	e IIoIII spieau siieet		24W7					3	6024W7SAR <b>68</b> R30X	6024W7PAR	<b>58</b> B30X
69 20 A 2.60 70 20 A 2.85 43W2 3 6043W2SAR68B30X 6043W2PA		3	-										
70 20 A 2.85 43W2 3 6043W2SAR <b>68</b> B30X 6043W2PA					36W4					3	6036W4SAR <b>68</b> B30X	6036W4PAR	<b>58</b> B30X
	70	20 A	2.85		43W2					3	6043W2SAR <b>68</b> B30X	6043W2PAR	<b>58</b> B30X
	71	30 A	3.18										

CONEC 7 231



# **IP67 COMBINATION D-SUB CONNECTORS** With signal & high power contacts 20 A

Solder pin straight



47W1

## **IP67 Combination D-SUB Connectors** With signal & high power contacts 15 A

3.18

3.75

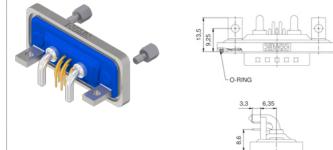
30 A

40 A

Solder pin angled, .338"/8.6 mm Precision machined contacts, metal bracket

#### 4-40 UNC threaded insert

72



For o	other Power contacts	select code from spre	ead 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

Current rating signal contacts [A]
Current rating high powe contacts [A] No. of poles UL-File

5W1 7W2 11W1 9W4 13W3 17W2 21W1

13W6

17W5

21WA4

25W3

27W2

24W7

36W4

43W2

47W1

3 6005W1SAT**59**S20X 6005W1PAT**59**S20X

15 250

6007W2SAT**59**S20X 6007W2PAT**59**S20X 3 6011W1SAT**59**S20X 6011W1PAT**59**S20X 3 6009W4SAT**59**S20X 6009W4PAT**59**S20X 3 6013W3SAT**59**S20X 6013W3PAT**59**S20X 3 6017W2SAT**59**S20X 6017W2PAT**59**S20X 3 6021W1SAT**59**S20X 6021W1PAT**59**S20X 6013W6SAT**59**S20X 6013W6PAT**59**S20X 3 6017W5SAT**59**S20X 6017W5PAT**59**S20X 3 621WA4SAT**59**S20X 621WA4PAT**59**S20X 3 6025W3SAT**59**S20X 6025W3PAT**59**S20X 3 6027W2SAT**59**S20X 6027W2PAT**59**S20X 3 6024W7SAT**81**S20X 6024W7PAT**81**S20X 3 6036W4SAT**81**S20X 6036W4PAT**81**S20X

3 6043W2SAT**81**S20X 6043W2PAT**81**S20X

3 6047W1SAT**81**S20X 6047W1PAT**81**S20X

3 6047W1SAR**68**E20X 6047W1PAR**68**E20X

Quality class 3 (A) = 50 mating cyles Stainless steel hex bolts are supplied loose

• Quality class 1 (C) = 500 mating cycles

Part No. Socket contact Part No. Plug contact

Shell: Brass tin plated

Shell: Stainless steel

Nickel plated die-cast frame

Nickel plated die-cast frame

Quality class 3 (A) = 50 mating cyles

On request:

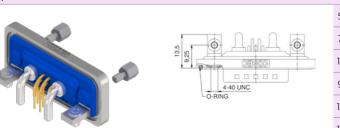
Shell: Stainless steel



# 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		Е	40 A	2.75								

No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	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
8	CO	0 0	Ŋ	77	00	Part No. Socket contact Part No. Plug contact
5W1					3	6005W1SAT <b>59</b> S40X 6005W1PAT <b>59</b> S40X
7W2					3	6007W2SAT <b>59</b> S40X 6007W2PAT <b>59</b> S40X
11W1					3	6011W1SAT <b>59</b> S40X 6011W1PAT <b>59</b> S40X
9W4					3	6009W4SAT <b>59</b> S40X 6009W4PAT <b>59</b> S40X
13W3					3	6013W3SAT <b>59</b> S40X 6013W3PAT <b>59</b> S40X
17W2					3	6017W2SAT <b>59</b> S40X 6017W2PAT <b>59</b> S40X
21W1	/DE)				3	6021W1SAT <b>59</b> S40X 6021W1PAT <b>59</b> S40X
13W6	7.5(UL) / 5(CSA, VDE)	15	250	5202784	3	6013W6SAT <b>59</b> S40X 6013W6PAT <b>59</b> S40X
17W5	JL) / 5	15	250	E202	3	6017W5SAT <b>59</b> S40X 6017W5PAT <b>59</b> S40X
21WA4	7.5(1				3	621WA4SAT <b>59</b> S40X 621WA4PAT <b>59</b> S40X
25W3					3	6025W3SAT <b>59</b> S40X 6025W3PAT <b>59</b> S40X
27W2					3	6027W2SAT <b>59</b> S40X 6027W2PAT <b>59</b> S40X
24W7					3	6024W7SAT <b>81</b> S40X 6024W7PAT <b>81</b> S40X
36W4					3	6036W4SAT <b>81</b> S40X 6036W4PAT <b>81</b> S40X
43W2					3	6043W2SAT <b>81</b> S40X 6043W2PAT <b>81</b> S40X
47W1					3	6047W1SAT <b>81</b> S40X 6047W1PAT <b>81</b> S40X

# Solder pin angled, .417"/10.6 mm Precision machined contacts, metal bracket

10 0140 11	readed insert										Part No. Socket contact	Part No. Plug	contac
	•				5W1					3	6005W1SAU <b>59</b> R20X	6005W1PAU	<b>59</b> R20
	1				7W2					3	6007W2SAU <b>59</b> R20X	6007W2PAU	<b>59</b> R20
			13.5		11W1					3	6011W1SAU <b>59</b> R20X	6011W1PAU	<b>59</b> R20
			4-40	UNC	9W4					3	6009W4SAU <b>59</b> R20X	6009W4PAU	<b>59</b> R20
			CO-RING		13W3					3	6013W3SAU <b>59</b> R20X	6013W3PAU	<b>59</b> R20
		,	3,3	6,35	17W2					3	6017W2SAU <b>59</b> R20X	6017W2PAU	<b>59</b> R20
			1		21W1	DE)				3	6021W1SAU <b>59</b> R20X	6021W1PAU	<b>59</b> R20
			10,6		13W6	7.5 (UL) / 5 (CSA, VDE)	15	250	784	3	6013W6SAU <b>59</b> R20X	6013W6PAU	<b>59</b> R20
					17W5	JL) / 5	15	250	E202784	3	6017W5SAU <b>59</b> R20X	6017W5PAU	<b>59</b> R20
					21WA4	7.5 (				3	621WA4SAU <b>59</b> R20X	621WA4PAU	<b>59</b> R20
For	other Power contacts	select code from spi	ead sheet		25W3					3	6025W3SAU <b>59</b> R20X	6025W3PAU	<b>59</b> R20
	CL II.	Current rating	Diameter solder pin							3	6027W2SAU <b>59</b> R20X	6027W2PAU	
Code	Shellsize	Current lating			27W2								<b>59</b> R20
Code 59	1-4	15 A	1.90		27W2					_		00271121710	<b>59</b> R2
59 73	1-4 1-4	15 A 20 A	1.90 2.85		27W2 24W7					3	6024W7SAU <b>81</b> R20X		
59 73 74	1-4 1-4 1-4	15 A 20 A 30 A	1.90 2.85 3.20		24W7					3	6024W7SAU <b>81</b> R20X	6024W7PAU	<b>81</b> R2
59 73 74 75	1-4 1-4 1-4 1-4	15 A 20 A 30 A 40 A	1.90 2.85 3.20 3.75							3		6024W7PAU	<b>81</b> R2
59 73 74 75 81	1-4 1-4 1-4 1-4 5	15 A 20 A 30 A 40 A 20 A	1.90 2.85 3.20 3.75 2.85		24W7 36W4					3	6024W7SAU <b>81</b> R20X 6036W4SAU <b>81</b> R20X	6024W7PAU	<b>81</b> R2
59 73 74 75	1-4 1-4 1-4 1-4	15 A 20 A 30 A 40 A	1.90 2.85 3.20 3.75		24W7					-	6024W7SAU <b>81</b> R20X	6024W7PAU	<b>81</b> R2

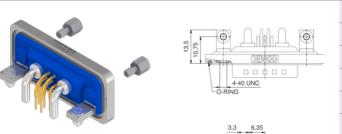
**CONEC** 7 233



# 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



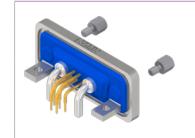
For other Power contacts select code from spread sheet										
Code		Shellsize	Current rating	Diameter solder pin						
59		1-4	15 A	1.90						
73		1-4	20 A	2.85						
74		1-4	30 A	3.20						
75		1-4	40 A	3.75						
81		5	20 A	2.85						
82		5	30 A	3.20						
85		5	30 A	3.20						
77		5	40 A	3.75						

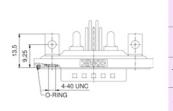
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	ile	Quality class	Shell: Brass tin plated Nickel plated die-cast frame Quality class 3 (A) = 50 mating cyles Stainless steel hex bolts are supplied loose On request: • Shell: Stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread
No.	Curr	Curr	Wor	UL-File	Qna	Part No. Socket contact Part No. Plug contact
5W1					3	6005W1SAU <b>59</b> R40X 6005W1PAU <b>59</b> R40X
7W2					3	6007W2SAU <b>59</b> R40X 6007W2PAU <b>59</b> R40X
11W1					3	6011W1SAU <b>59</b> R40X 6011W1PAU <b>59</b> R40X
9W4					3	6009W4SAU <b>59</b> R40X 6009W4PAU <b>59</b> R40X
13W3					3	6013W3SAU <b>59</b> R40X 6013W3PAU <b>59</b> R40X
17W2					3	6017W2SAU <b>59</b> R40X 6017W2PAU <b>59</b> R40X
21W1	(DE)				3	6021W1SAU <b>59</b> R40X 6021W1PAU <b>59</b> R40X
13W6	7.5(UL) / 5(CSA, VDE)	15	250	E202784	3	6013W6SAU <b>59</b> R40X 6013W6PAU <b>59</b> R40X
17W5	JL) / 5	15	250	E202	3	6017W5SAU <b>59</b> R40X 6017W5PAU <b>59</b> R40X
21WA4	7.5(0				3	621WA4SAU <b>59</b> R40X 621WA4PAU <b>59</b> R40X
25W3					3	6025W3SAU <b>59</b> R40X 6025W3PAU <b>59</b> R40X
27W2					3	6027W2SAU <b>59</b> R40X 6027W2PAU <b>59</b> R40X
24W7					3	6024W7SAU <b>81</b> R40X 6024W7PAU <b>81</b> R40X
36W4					3	6036W4SAU <b>81</b> R40X 6036W4PAU <b>81</b> R40X
43W2					3	6043W2SAU <b>81</b> R40X 6043W2PAU <b>81</b> R40X
47W1					3	6047W1SAU <b>81</b> R40X 6047W1PAU <b>81</b> R40X

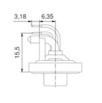
IP67 COMBINATION	D-SUB CONNECTORS
With signal & high pov	wer contacts 15 A

Solder pin angled, .610"/15.5 mm
Precision machined contacts, metal bracket

#### 4-40 UNC threaded insert







25W3

27W2

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 Current rating signal contacts [A]
Current rating high powe contacts [A] on request

Shell: Stainless steel

Quality class 1 (C) = 500 mating cycles No. of poles M3 threadShellsize 5 on request Part No. Socket contact Part No. Plug contact 5W1 3 6005W1SAZ**59**S20X 6005W1PAZ**59**S20X 7W2 3 6007W2SAZ**59**S20X 6007W2PAZ**59**S20X 11W1 3 6011W1SAZ**59**S20X 6011W1PAZ**59**S20X 3 6009W4SAZ**59**S20X 6009W4PAZ**59**S20X 13W3 3 6013W3SAZ**59**S20X 6013W3PAZ**59**S20X 7.5 (UL) / 5 (CSA, VDE) 17W2 3 6017W2SAZ**59**S20X 6017W2PAZ**59**S20X 15 250 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

3 6025W3SAZ**59**S20X 6025W3PAZ**59**S20X

3 6027W2SAZ**59**S20X 6027W2PAZ**59**S20X



#### Shell: Brass tin plated Nickel plated die-cast frame Quality class 3 (A) = 50 mating cyles Stainless steel hex bolts are supplied loose Current rating signal contacts [A] Current rating high power contacts [A] Working voltage [V] **IP67 Combination D-SUB Connectors** With signal & high power contacts 15 A on request: Shell: Stainless steel Quality class 1 (C) = 500 mating cycles M3 thread Solder pin angled, .610"/15.5 mm No. of poles Precision machined contacts, metal bracket with PCB clip • Shellsize 5 on request O Part No. Socket contact Part No. Plug contact • Shellsize 5 on request Clip for PCB 1.6 mm, 4-40 UNC threaded insert 5W1 3 6005W1SAZ**59**S40X 6005W1PAZ**59**S40X 7W2 3 6007W2SAZ**59**S40X 6007W2PAZ**59**S40X 11W1 3 6011W1SAZ**59**S40X 6011W1PAZ**59**S40X 9W4 3 6009W4SAZ**59**S40X 6009W4PAZ**59**S40X 13W3 3 6013W3SAZ**59**S40X 6013W3PAZ**59**S40X 7.5 (UL) / 5 (CSA, VDE) 17W2 21W1 3 6017W2SAZ**59**S40X 6017W2PAZ**59**S40X 15 250 3 6021W1SAZ**59**S40X 6021W1PAZ**59**S40X For other Power contacts select code from spread sheet 13W6 3 6013W6SAZ**59**S40X 6013W6PAZ**59**S40X Code Shellsize Current rating Diameter solder pin 17W5 3 6017W5SAZ**59**S40X 6017W5PAZ**59**S40X 2.85 74 30 A 3.20 3 621WA4SAZ**59**S40X 621WA4PAZ**59**S40X 21WA4 75 40 A 3.75 20 A 2.85 25W3 3 6025W3SAZ**59**S40X 6025W3PAZ**59**S40X 82 30 A 3.20 85 30 A 3.20 77 40 A 3.75 27W2 3 6027W2SAZ**59**S40X 6027W2PAZ**59**S40X

IP67 COMBINATION D-SUB CONNECTORS With high power contacts 10 A				igh power	e [V]			Shell: Brass tin plated Nickel plated die-cast frame Quality class 3 (A) = 50 mating cyles Stainless steel hex bolts are supplied loose			
	p straight machined co	ontacts		No. of poles	Current rating high power contacts [A]	Norking voltage [V]	ile.	Ouality class	On request: • Shell: Stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread		
40 UNC t	hreaded insert			No.	Curi	Wor	UL-File	Ona	Part No. Socket o	ontact	Part No. Plug conta
		•		3W3		250			6003W3SXX <b>61</b>	B30X	6003W3PXX <b>61</b> B30
			4-40 UNC O-RING	5W5	10	250	E202784	3	6005W5SXX <b>61</b>	B30X	6005W5PXX <b>61</b> B3
For other Pow	er contacts select cod	de from spread sheet									
Code 61 62	AWG 16-20 12-14	Current rating 10 A 20 A		8W8		250			6008W8SXX <b>61</b>	B30X	6008W8PXX <b>61</b> B3
40 UNC t	hreaded insert,	coded version									
		a a	4-40 UNC O-RING	2W2C	- 10	250	E202784	3	602W2CSXX <b>61</b>	B30X	602W2CPXX <b>61</b> B3
Ear athar Paur	py contacts colort cos	le from spread sheet			10		E202	3			
Code	AWG	·		3W3C		250			603W3CSXX <b>61</b>	B30X	603W3CPXX <b>61</b> B3
61	16-20	Current rating 10 A									
62	12-14	20 A									

**CONEC** 7 235



#### Shell: Brass tin plated Nickel plated die-cast frame Quality class 3 (A) = 50 mating cyles Stainless steel hex bolts are supplied loose **IP67 Combination D-SUB Connectors** With high power contacts 10 A Current rating high po contacts [A] Working voltage [V] On request: • Shell: Stainless steel Solder pin straight Shell: Stainless steel Quality class 1 (C) = 500 mating cycles M3 thread Part No. Socket contact Part No. Plug contact No. of poles Precision machined contacts UL-File 4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm 6003W3SXX**68**E20X 6003W3PXX**68**E20X 3W3 250 5W5 20 250 6005W5SXX**68**E20X 6005W5PXX**68**E20X For other Power contacts select code from spread sheet Current rating Diameter solder pin Code 68 2.60 6008W8SXX**68**E20X 6008W8PXX**68**E20X 250 72 40 A 3.75 4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm, coded version 602W2CSXX**68**E20X 602W2CPXX**68**E20X 2W2C 250 For other Power contacts select code from spread sheet Code Current rating Diameter solder pin 603W3CSXX**68**E20X 603W3CPXX**68**E20X 250 68 20 A 1.95 69 20 A 2.60 70 20 A 2.85 30 A 3.18



72

40 A

3.75

#### **IP67 COMBINATION D-SUB CONNECTORS** Shell: Brass tin plated Nickel plated die-cast frame Quality class 3 (A) = 50 mating cyles With high power contacts 15 A Stainless steel hex bolts are supplied loose On request: Solder pin angled Shell: Stainless steel Current rating contacts [A] No. of poles • Quality class 1 (C) = 500 mating cycles Precision machined contacts, metal bracket M3 thread Working Part No. Socket contact Part No. Plug contact U. 4-40 UNC threaded insert 250 6003W3SXX**59**S20X 6003W3PXX**59**S20X 6005W5SXX**59**S20X 6005W5PXX**59**S20X 250 For other Power contacts select code from spread sheet Shellsize 59 1-4 15 A 1.90 250 6008W8SXX**59**S20X 6008W8PXX**59**S20X 73 1-4 20 A 2.85 74 1-4 30 A 3.20 75 40 A 1-4 3.75 4-40 UNC threaded insert, coded version 250 602W2CSXX**59**S20X 602W2CPXX**59**S20X 2W2C For other Power contacts select code from spread sheet 3W3C 250 603W3CSXX**59**S20X 603W3CPXX**59**S20X Shellsize Current rating Diameter solder pin 59 1-4 15 A 1.90 73 1-4 20 A 2.85 3.20 3.75 74 1-4 30 A

#### Solder pin angled

1-4

75

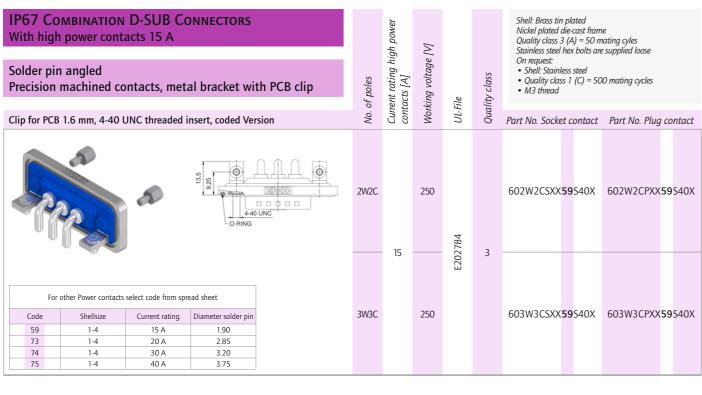
Precision machined contacts, metal bracket with PCB clip

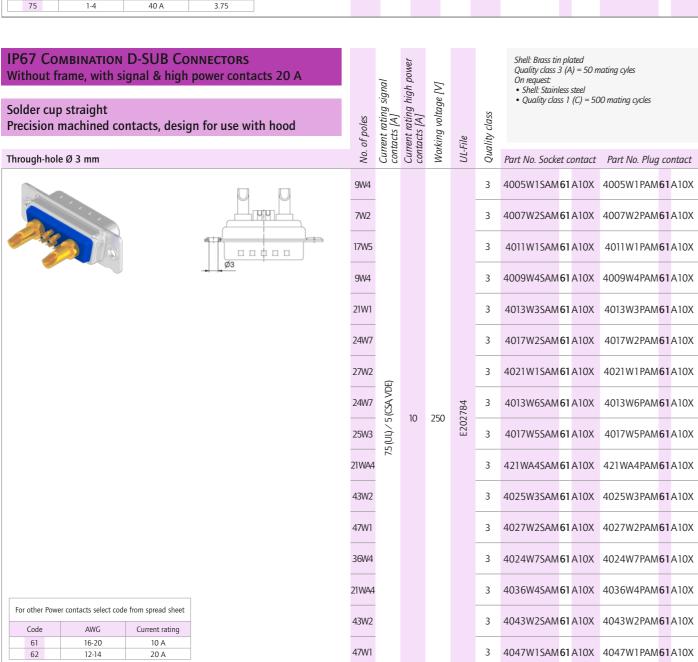
40 A

#### Clip for PCB 1.6 mm, 4-40 UNC threaded insert 250 6003W3SXX**59**S40X 6003W3PXX**59**S40X 250 6005W5SXX**59**S40X 6005W5PXX**59**S40X For other Power contacts select code from spread sheet Current rating Diameter solder pin 59 1.90 1-4 15 A 250 6008W8SXX**59**S40X 6008W8PXX**59**S40X 1-4 20 A 2.85 74 1-4 30 A 3.20 75 1-4 40 A 3.75

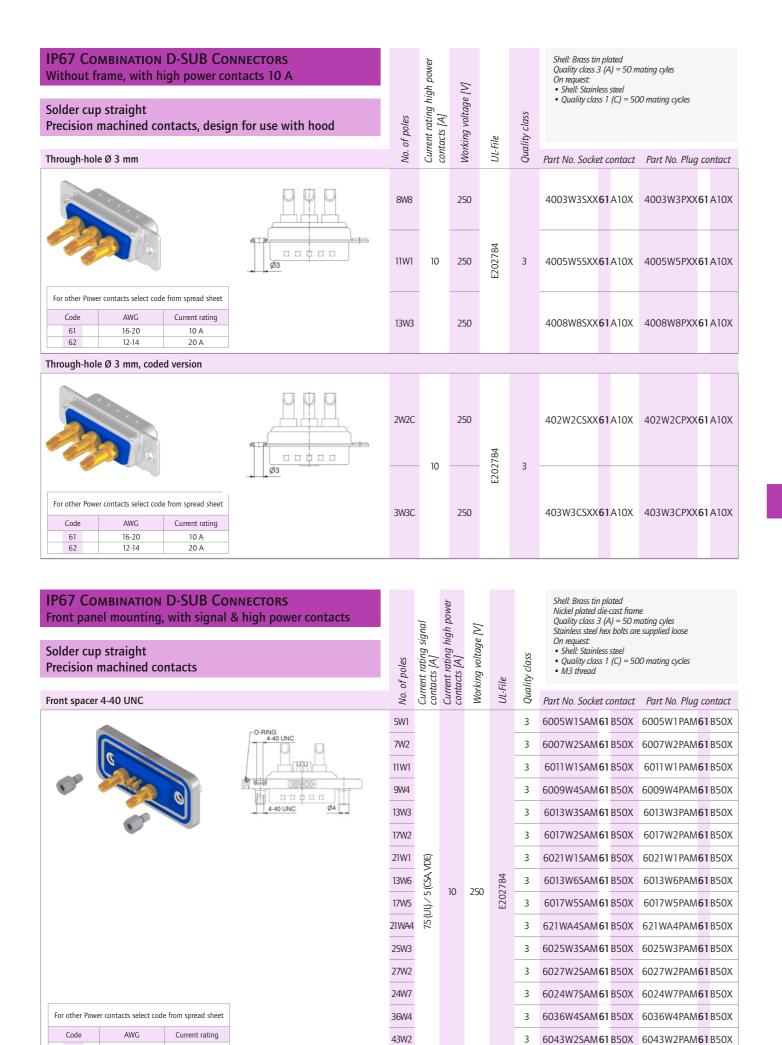
**CONEC** 7 237











47W1

**CONEC** 7 | 239

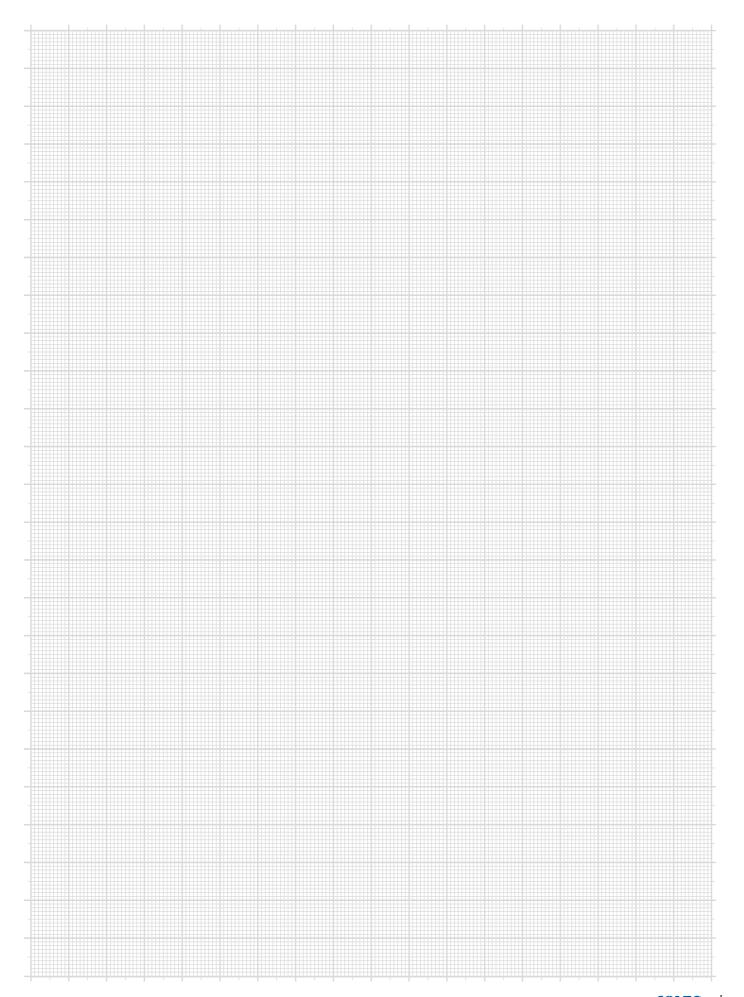
3 6047W1SAM61B50X 6047W1PAM61B50X

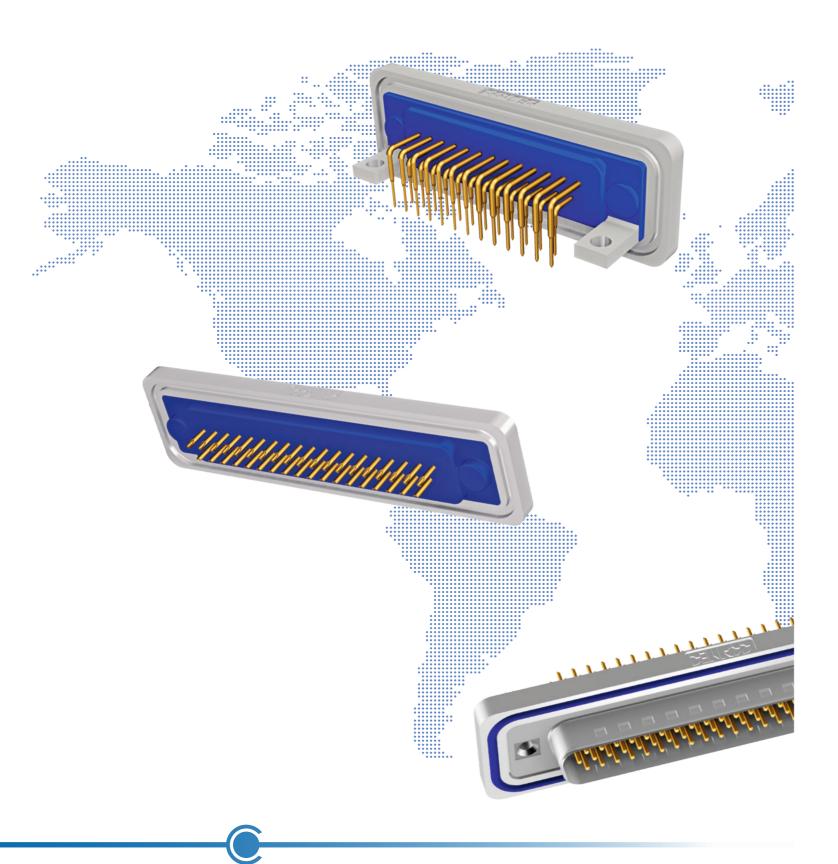


#### Shell: Brass tin plated Nickel plated die-cast frame Quality class 3 (A) = 50 mating cyles Stainless steel hex bolts are supplied loose **IP67 Combination D-SUB Connectors 20 A** Front panel mounting, with high power contacts Working voltage [V] Current rating high p contacts [A] On request: • Shell: Stainless steel Solder cup straight Shell: Stainless sue: Quality class 1 (C) = 500 mating cycles M3 thread Part No. Socket contact Part No. Plug contact No. of poles Precision machined contacts UL-File Front spacer 4-40 UNC 6003W3SXX**61**B50X 6003W3PXX**61**B50X 3W3 250 5W5 10 250 3 6005W5SXX**61**B50X 6005W5PXX**61**B50X For other Power contacts select code from spread sheet 250 6008W8SXX**61**B50X 6008W8PXX**61**B50X 8W8 Code AWG 61 16-20 10 A 62 12-14 20 A Front spacer 4-40 UNC, coded version 2W2C 250 602W2CSXX**61**B50X 602W2CPXX**61**B50X 3W3C 250 603W3CSXX**61**B50X 603W3CPXX**61**B50X For other Power contacts select code from spread sheet Code 16-20 10 A 62 20 A 12-14



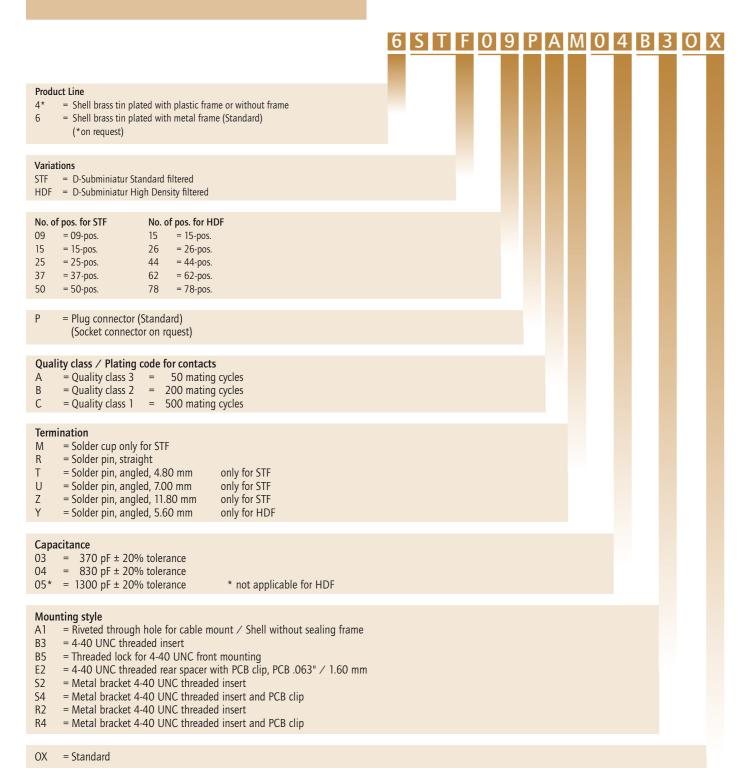








#### **Part Number Creator**





# Product specification

Basic material	IP67 Filter D-SUB Standard	IP67 Filter D-SUB High Density	IP67 Filter D-SUB SlimCon						
busic muterial	9-, 15-, 25-, 37- , 50-pos.	15-, 26-, 44-, 62-pos.	9-, 15-, 25-pos.						
Contact		Copper alloy							
Contact plating		Gold over nickel							
contact planning		Cold Over Hierer							
Insulator		PBT GF UL94 V-0							
CL III		2.1.1	<b>-</b>						
Shell	Bra	ss tin plated	Zinc die-cast nickel plated						
Seal	0-	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*							
ggo	*dependi	ng on isolation coordination refer to DIN VDE 0110	) / IEC 664-1						
Valtaga surga 10 /700 us		200 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 m $\Omega$ prior to stressing $\Delta R$ max. 10 m $\Omega$ after stressing per IEC 60807-2								
Insulation resistance		≥ 1 GΩ							
modiation resistance		2 1 052							
Capacitor Values	370 pF ± 20 %	370 pF ± 20 %	370 pF ± 20 %						
	830 pF ± 20 % 1300 pF ± 20 %	830 pF ± 20 %	820 pF ± 20 % 1200 pF ± 20 %						
	1300 pr = 20 70		1200 pt = 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 amounting faces									
Mating and unmating forces	9-pos. ≤ 30 N 15-pos. ≤ 50 N	15-pos. ≤ 50 N 26-pos. ≤ 84 N	9-pos. ≤ 30 N 15-pos. ≤ 50 N						
	25-pos. ≤ 83 N	44-pos. ≤ 120 N	25-pos. ≤ 83 N						
	37-pos. ≤ 123 N 50-pos. ≤ 167 N	67-pos. ≤ 170 N							
	30-μ03. ± 107 N								
Quality class		A = Quality class 3 = 50 mating cycles							
,		B = Quality class 2 = 200 mating cycles							
		C = Quality class 1 = 500 mating cycles							
	Preheating	Solder termial dip	oning parameters						
Recommended wavesolder parameters			max. terminal immersion time						
IP67 Filter D-SUB Standard	max. temperature duration (max 100 °C 30 s	260 °C	max. terminal immersion time						
or Thici D 300 Standard	100 0 303	200 C	3 3						

Technical specifications are subject to change without notice

100 °C

150 °C

30 s

180 s

260 °C

265 °C

**CONEC** 8 245

5 s

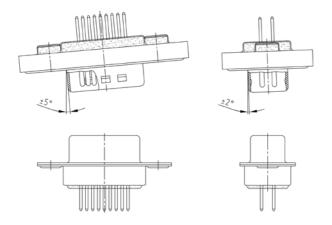
IP67 Filter D-SUB

IP67 Filter D-SUB SlimCon

High Density

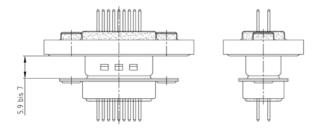
# Mating conditions

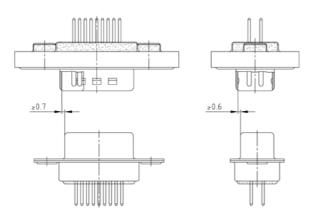
## Max. tilt angle for connector mating



# Range for safe contact

Lock-in range

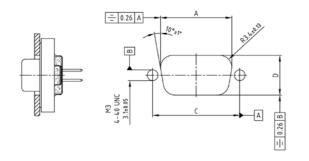


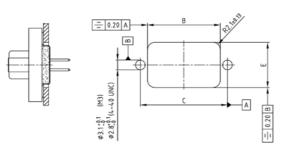


# Panel cut-out

## Rear panel mounting

Front panel mounting

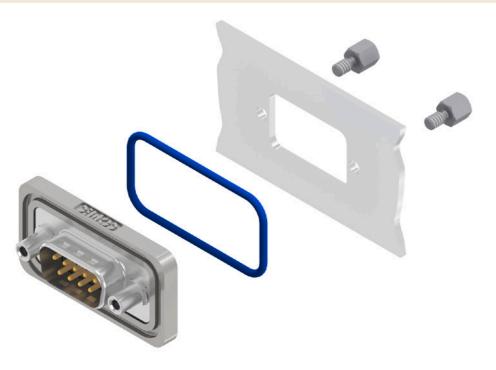




Shell size	<b>A</b> ± 0.1	<b>B</b> ± 0.1	<b>C</b> ± 0.1	<b>D</b> ± 0.1	<b>E</b> ± 0.1
9	20.50	20.90	25.00	11.40	13.00
15	28.80	29.20	33.30	11.40	13.00
25	42.50	42.90	47.04	11.40	13.00
37	59.10	59.40	63.50	11.40	13.00
50	56.30	57.00	61 10	14 10	15.80

Panel mounting

Front panel mounting



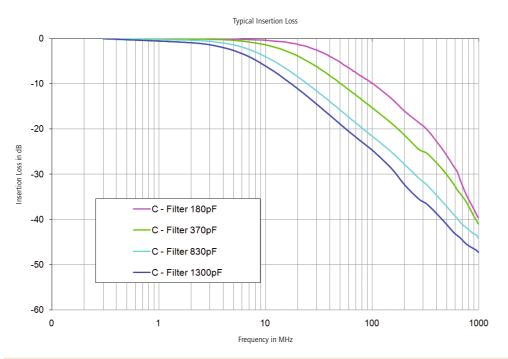
Back panel mounting



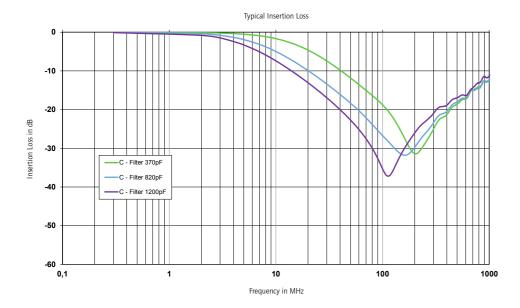
The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (Standard )/.051"/1.3 mm (CONEC SlimCon) such that it does not extend beyond the plug-in height.

## Insertion loss

## C-Filter with planar filter technology



# C-Filter with chip technology (CONEC SlimCon)



Technical specifications are subject to change without notice.



# IP67 FILTER D-SUB CONNECTORS CONEC SlimCon, C-Filter, Standard

Solder cup

Precision machined contacts, AWG20

## 4-40 UNC threaded insert



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

	No. of pole:	Current rat.	Working vo	Quality cla	Capacitano	EMC gaske	Silicone ga:	Gaskets also available	e separately
	No.	Curi	Wor	Ona	Сар	EMC	Silic	Part No. Socket contact	Part No. Plug contact
	09	A, VDE)						15-008983	15-008943
	15	7.5 (UL) / 5 (CSA, VDE)	100	3	370	✓		15-008993	15-008953
г	25	7.5 (UL)						15-009003	15-008963
	09	, VDE)						15-009063	15-009023
	15	7.5 (UL) / 5 (CSA, VDE)	100	3	820	✓		15-009073	15-009033
	25	7.5 (UL						15-009083	15-009043
	09	V VDE)						15-009143	15-009103
	15	7.5 (UL) / 5 (CSA, VDE)	100	3	1200	✓		15-009153	15-009113
	25	7.5 (UL						15-009163	15-009123
	09	√ VDE)						15-009463	15-009423
	15	7.5 (UL) / 5 (CSA, VDE)	100	3	370		✓	15-009473	15-009433
	25	7.5 (UI						15-009483	15-009443
	09	A, VDE)						15-009543	15-009503
	15	7.5 (UL) / 5 (CSA, VDE)	100	3	820		✓	15-009553	15-009513
	25	7.5 (UI						15-009563	15-009523
	09	4 VDE)						15-009623	15-009583
	15	7.5 (UL) / 5 (CSA, VDE)	100	3	1200		✓	15-009633	15-009593
	25	7.5 (UL						15-009643	15-009603

**CONEC** 8 249



# IP67 FILTER D-SUB CONNECTORS CONEC SlimCon, C-Filter, Standard

Solder pin, straight Precision machined conf

# Clip for PCB 1.6 mm, 4-40 UN



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:

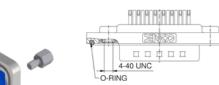
ntacts	No. of poles	Current rating [A	Working voltage	Quality class	Capacitance [pF.	EMC gasket	Silicone gasket	On request: • Quality class 1 (C) = 500 mating cycles • Gaskets also available separately			
NC threaded insert	No. 6	Curre	Work	Qual	Сарс	EMC	Silico	Part No. Socket contact	Part No. Plug contact		
	09	, VDE)						15-009223	15-009183		
2.	15	7.5 (UL) / 5 (CSA, VDE)	100	3	370	✓		15-009233	15-009193		
4-40 UNC SEALING GASKET	25	7.5 (UL)						15-009243	15-009203		
	09	4 VDE)						15-009303	15-009263		
	15	7.5 (UL) / 5 (CSA, VDE)	100	3	820	✓		15-009313	15-009273		
	25	7.5 (UI						15-009323	15-009283		
	09	V VDE)						15-009383	15-009343		
	15	7.5 (UL) / 5 (CSA, VDE)	100	3	1200	✓		15-009393	15-009353		
	25	7.5 (UL						15-009403	15-009363		
	09	√ VDE)			370			15-009703	15-009663		
	15	7.5 (UL) / 5 (CSA, VDE)	100	3			✓	15-009713	15-009673		
	25	7.5 (UL						15-009723	15-009683		
	09	A, VDE)						15-009783	15-009743		
	15	7.5 (UL) / 5 (CSA, VDE)	100	3	820		✓	15-009793	15-009753		
	25	7.5 (UL						15-009803	15-009763		
	09	4 VDE)						15-009863	15-009823		
	15	7.5 (UL) / 5 (CSA, VDE)	100	3	1200		✓	15-009873	15-009833		
	25	7.5 (UL						15-009883	15-009843		



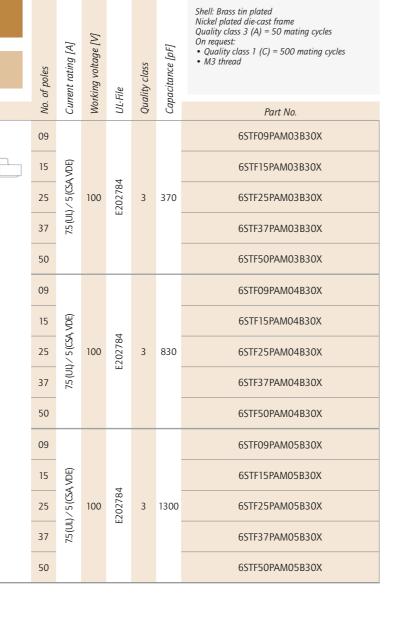
# IP67 FILTER D-SUB CONNECTORS Plug connector, C-Filter, Standard

Solder cup Precision machined contacts, AWG 26

### 4-40 UNC threaded insert



Downloaded from Arrow.com.



IP67 FILTER D-SUB CONNECTORS Plug connector, C-Filter, Standard  Solder pin, straight Precision machined contacts  4-40 UNC threaded insert	09 09 15	75 (UL) / 5 (CSA, VDE) Current rating [A]	00 Working voltage [V]	E202784 UL-File	ω Quality class	Capacitance [pF]	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  Part No.  6STF09PAR03B30X  6STF15PAR03B30X
	50						6STF37PAR03B30X 6STF50PAR03B30X
	09						6STF09PAR04B30X
	15	VDE)					6STF15PAR04B30X
	25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF25PAR04B30X
	37	7.5 (UL),		E			6STF37PAR04B30X
	50	50					6STF50PAR04B30X
	09						6STF09PAR05B30X
	15	A, VDE)		E202784	3		6STF15PAR05B30X
	25	— (II	100			1300	6STF25PAR05B30X
	37						6STF37PAR05B30X
	50						6STF50PAR05B30X
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm	00						CCTFOODADONFOOV
2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	09	)E)			784		6STF09PAR03E20X
	15 ————————————————————————————————————	(CSA, VE	100	E202784		370	6STF15PAR03E20X 6STF25PAR03E20X
4-40 UNC	37	7.5 (UL) / 5 (CSA, VDE)	100	E202	3	570	6STF37PAR03E20X
	50	7.				-	6STF50PAR03E20X
	09						6STF09PAR04E20X
	15	DE)				-	6STF15PAR04E20X
	25	5 (CSA, V	100	E202784	3	830	6STF25PAR04E20X
	37	7.5 (UL) / 5 (CSA, VDE)		E2C			6STF37PAR04E20X
	50	17					6STF50PAR04E20X
	09						6STF09PAR05E20X
	15	VDE)					6STF15PAR05E20X
	25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF25PAR05E20X
	37	7.5 (UL),		E2			6STF37PAR05E20X
	50						6STF50PAR05E20X



Downloaded from Arrow.com.

P67 FILTER D-SUB CONNECTION CONNE	rd m	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	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
40 UNC threaded insert			Cn	Wo	nr-	nO	Cal	Part No.
	Ø3,18	09	, VDE)		_			6STF09PAT03S20X
Constant of the Constant of th	133	15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370 -	6STF15PAT03S20X 6STF25PAT03S20X
	25 (1n) 52 O-RING 37		ш			6STF23FAT03S20X		
, talah	3,3 6,35	09						
48	8.4		A, VDE)					6STF09PAT04S20X 6STF15PAT04S20X
		15 25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830 -	
		37	7.5 (UI		ш			6STF25PAT04S20X 6STF37PAT04S20X
		09						
			7.5 (UL) / 5 (CSA, VDE)					6STF09PAT05S20X 6STF15PAT05S20X
		15 ————————————————————————————————————		100	E202784	3	1300 -	6STF25PAT05S20X
		37	7.5 (UL		ш			6STF23PAT05S20X
ip for PCB 1.6 mm, 4-40 UNC thread	ed insert	3/						051F3/PA103520X
		09						6STF09PAT03S40X
	35.5	15	(CSA, VDE)	100	784	3		6STF15PAT03S40X
	4-40 UNC	25	7.5 (UU) / 5 (0	100	E2027		370 -	6STF25PAT03S40X
	LO-RING	37	7.5					6STF37PAT03S40X
	3,3 6,35	09						6STF09PAT04S40X
	4	15	CSA, VDE		784			6STF15PAT04S40X
		25	7.5 (UL) / 5 (CSA VDE)	100	E202784	3	830 -	6STF25PAT04S40X
		37	7.5					6STF37PAT04S40X
		09						6STF09PAT05S40X
		15	CSA, VDE		784			6STF15PAT05S40X
		25	7.5 (UL) / 5 (CSA VDE)	100	E202784	3	1300 -	6STF25PAT05S40X
			7.5 (1				-	6STF37PAT05S40X

IP67 FILTER D-SUB CONNECTORS Plug connector, C-Filter, Standard  Solder pin angled, .417"/10.6 mm  Precision machined contacts, metal bracket	No. of poles	Current rating [A]	Working voltage [V]	ile	Quality class	Capacitance [pF]	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.	Cun	Wor	UL-File	Qua	Сар	Part No.
	09						6STF09PAU03R20X
2,5.5 10,7.5 10,7.5 10,10	15	A, VDE)		4			6STF15PAU03R20X
4-40 UNC	25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF25PAU03R20X
	37	7.5 (UI		_			6STF37PAU03R20X
3,3 6,35	50						6STF50PAU03R20X
9'01	09						6STF09PAU04R20X
0	15	7.5 (UL) / 5 (CSA, VDE)		4			6STF15PAU04R20X
	25		100	E202784	3	830	6STF25PAU04R20X
	37	7.5 (UI					6STF37PAU04R20X
	50						6STF50PAU04R20X
	09						6STF09PAU05R20X
	15	√ VDE)					6STF15PAU05R20X
	25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF25PAU05R20X
	37	7.5 (UL)		ш			6STF37PAU05R20X
							6STF50PAU05R20X
Clip for PCB 1.6 mm, 4-40 UNC threaded insert							
	09					_	6STF09PAU03R40X
13.5	15	SA, VDE)	(234 VDE) (100 VDE)	E202784	E202784		6STF15PAU03R40X
4-40 UNC	25	7.5 (UL) / 5 (CSA, VDE)				370	6STF25PAU03R40X
THE PROPERTY OF THE PROPERTY O	37	7.5 (U					6STF37PAU03R40X
3.3 6.35	50						6STF50PAU03R40X
900	09						6STF09PAU04R40X
	15	4, VDE)		4			6STF15PAU04R40X
	25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF25PAU04R40X
	37	7.5 (UL)		Ш			6STF37PAU04R40X
	50						6STF50PAU04R40X
	09						6STF09PAU05R40X
	15	3, VDE)		<+			6STF15PAU05R40X
	25	- 85	100	E202784	3	1300	6STF25PAU05R40X
	37 (10) 52		E20				
	37	7.5 (L					6STF37PAU05R40X



IP67 FILTER D-SUB CONNECTORS Plug connector, C-Filter, Standard  Solder pin angled, .606"/15.4 mm Precision machined contacts, metal bracket	No. of poles	Current rating [A]	Working voltage [V]	ile	Quality class	Capacitance [pF]	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. 0	Curre	Work	UL-File	Qual	Сарс	Part No.
	09						6STF09PAZ03S20X
92 23 29	15	CSA, VDE		784			6STF15PAZ03S20X
	25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370 -	6STF25PAZ03S20X
-O-RING	37	7.5					6STF37PAZ03S20X
3,3 6,35	09						6STF09PAZ04S20X
15.4	15	7.5 (UL) / 5 (CSA, VDE)		784			6STF15PAZ04S20X
	25	(UI) / 5	100	E202784	3	830 -	6STF25PAZ04S20X
	37	7.5					6STF37PAZ04S20X
	09	Œ					6STF09PAZ05S20X
		7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1200	6STF15PAZ05S20X
		5 (UU) 7 5	100	E202		1300	6STF25PAZ05S20X
	37	7.5					6STF37PAZ05S20X
Clip for PCB 1.6 mm, 4-40 UNC threaded insert							
	09	Œ)	100	E202784	E202784		6STF09PAZ03S40X
3.55	15	5 (CSA, VDE)				370 -	6STF15PAZ03S40X
4-40 UNC	25	7.5 (UU) 7.5		E20			6STF25PAZ03S40X
CO-RING	37	-					6STF37PAZ03S40X
3,3 6,35	09	Œ)					6STF09PAZ04S40X
4.5 <u>1</u>	15	CSA,VI	100	E202784	3	830 -	6STF15PAZ04S40X
	25	7.5 (UL) / 5 (CSA, VDE)	100	E20	3		6STF25PAZ04S40X
	37	7.					6STF37PAZ04S40X
	09	)E)					6STF09PAZ05S40X
	15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF15PAZ05S40X
	25	5 (UL) / !			J		6STF25PAZ05S40X
	37	7.					6STF37PAZ05S40X

**CONEC** 8 255 Downloaded from Arrow.com.

Plug connector, C-Filter, Standard  Solder pin angled, .606"/15.4 mm  Precision machined contacts, metal bracket  4-40 UNC threaded insert	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	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	09	0		7	0	0	Part No. 6STF09PAZ03S20X
25.55 25.55 4.50 4.50 4.50 4.50 4.50 4.50 4.50	15	SA, VDE)		84			6STF15PAZ03S20X
(a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF25PAZ03S20X
	37	7.5					6STF37PAZ03S20X
3,3 6,35		(I)					6STF09PAZ04S20X
4.6	15	(CSA, VD	100	E202784	3	830	6STF15PAZ04S20X
	25	75 (UI) / 5 (CSA, VDE)	E202	3	030	6STF25PAZ04S20X	
	37					6STF37PAZ04S20X	
	09	(j)					6STF09PAZ05S20X
	15	(CSA, VD	100	E202784	2	1300	6STF15PAZ05S20X
	25	7.5 (UL) / 5 (CSA VDE)	100	E202	3	1300	6STF25PAZ05S20X
	37	7,2					6STF37PAZ05S20X
Clip for PCB 1.6 mm, 4-40 UNC threaded insert							
		VDE)					6STF09PAZ03S40X
\$\frac{1}{5}\frac{1}{5	15	IL) / 5 (CSA, VDE)	100	E202784	3	370	6STF15PAZ03S40X
440 UNC	25	7.5 (UL) /		E2			6STF25PAZ03S40X
LÖ-RING	37						6STF37PAZ03S40X
3,3 6,35	09	( <u>E</u>					6STF09PAZ04S40X
15.4	15	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF15PAZ04S40X
	25	2 (UL) / !		E20			6STF25PAZ04S40X
Ţ,	37	.7					6STF37PAZ04S40X
	09	(i					6STF09PAZ05S40X
	15	(CSA, VD	100	2784	3	1300	6STF15PAZ05S40X
	25	7.5 (0	100	E202784			6STF25PAZ05S40X
	37						6STF37PAZ05S40X

IP67 FILTER D-SUB CONNECTORS Plug connector, C-Filter, Standard, front panel mounting  Solder cup Precision machined contacts, AWG 26		Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	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 front spacer		Ca	We	70	no	Ca	Part No.
2000	09					6STF09PAM03B50X	
O-RING 4-40 UNC gnantanatanana	15	7.5 (UL) / 5 (CSA, VDE)		4			6STF15PAM03B50X
	25	/5(CS	100	E202784	3	370	6STF25PAM03B50X
4-40 UNC Ø4	37	7.5 (UL)		ш			6STF37PAM03B50X
4-40 UNC	50						6STF50PAM03B50X
							6STF09PAM04B50X
	15	- §		E202784			6STF15PAM04B50X
	25		100		3	830	6STF25PAM04B50X
	37	7.5 (UL)	7.5 (UL),				6STF37PAM04B50X
	50						6STF50PAM04B50X
	09						6STF09PAM05B50X
	15	A, VDE)		4			6STF15PAM05B50X
	25	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF25PAM05B50X
	37	7.5 (UL)		E2			6STF37PAM05B50X
	50						6STF50PAM05B50X

		N				Shell: Brass tin plated Quality class 3 (A) = 50 mating cycles On request: • Quality class 1 (C) = 500 mating cycles
f poles	nt rating [A,	ing voltage [	le	ity class	citance [pF]	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
No. 0	Curre	Work	UL-Fi	Qual	Сара	Part No.
09		SA, VDE)				4STF09PAM03A10X
15	A, VDE)		-			4STF15PAM03A10X
25	/5(CS	100	0278	3	370	4STF25PAM03A10X
37	.5 (UL).		Ξ			4STF37PAM03A10X
50						4STF50PAM03A10X
09						4STF09PAM04A10X
15	A, VDE)		5			4STF15PAM04A10X
25	/5(CS/	75 (UL) / 5 (CSA	E202784	3	830	4STF25PAM04A10X
37	75 (UL),					4STF37PAM04A10X
50	, ,					4STF50PAM04A10X
09						4STF09PAM05A10X
15	, VDE)		4			4STF15PAM05A10X
25	/5(CS	.5 (UL) / 5 (CSA	20278	3	1300	4STF25PAM05A10X
37	75 (UL),		Ξ			4STF37PAM05A10X
50	- 12					4STF50PAM05A10X
	15 25 37 50 09 15 25 37 50 09 15 25 37	09 15 25 37 50 09 15 25 37 50 09 15 25 37 50 09 15 25 37 50 09 15 25 37 50	09 (30 YS) 100 (37 /10) 52 (30 YS) 100 (37 /10) 52 (37	09	09	09



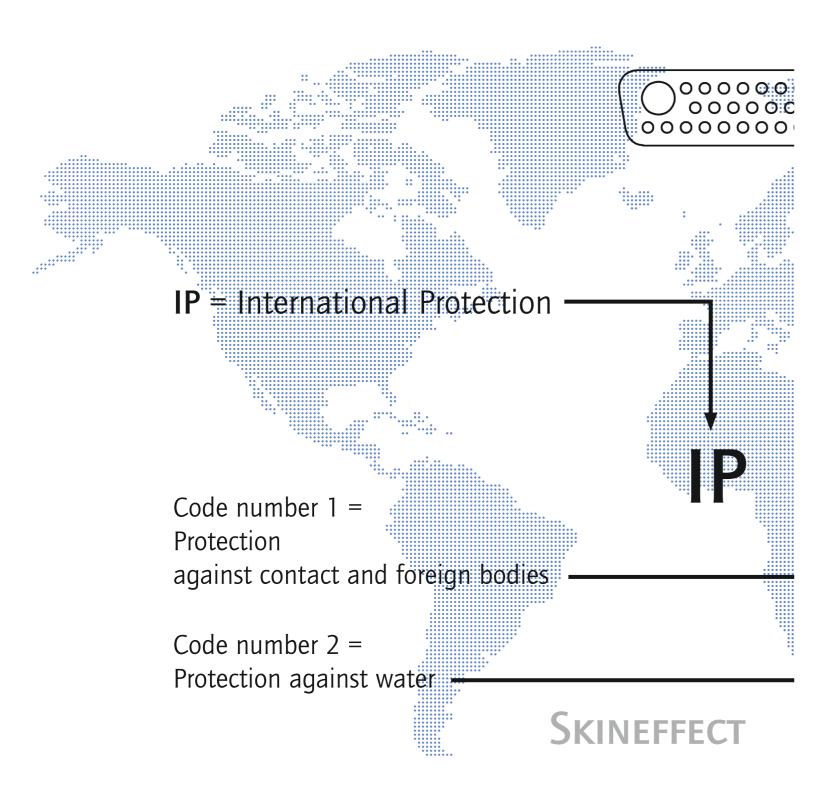
Downloaded from Arrow.com.

15	IP67 FILTER D-SUB CONNECTORS Plug connector C-Filter High Density  Solder pin straight Precision machined contact	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	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
26 S) \$72 100 E 28 3 370 GHDF26PAR03B30X  44 W DE 15 6 S) \$72 100 E 28 3 370 GHDF44PAR03B30X  440 UNC front, threaded rear spacer clip for PCB 1.6 mm  15 6 S) \$72 100 E 28 3 370 GHDF44PAR04B30X  440 UNC front, threaded rear spacer clip for PCB 1.6 mm  15 6 S) \$72 100 E 28 3 370 GHDF44PAR04B30X  440 UNC front, threaded rear spacer clip for PCB 1.6 mm  15 6 HDF15PAR03E20X  6 HDF26PAR03E20X  6 HDF44PAR03E20X  6 HDF15PAR03E20X  6 HDF15PAR03E20X  6 HDF15PAR04E20X  6 HDF15PAR04E20X  6 HDF15PAR04E20X	4-40 UNC threaded insert		Ü	3	'n	õ	ŭ	
62 6HDF62PAR03B30X  15 880 6HDF15PAR04B30X  44 100 MC front, threaded rear spacer clip for PCB 1.6 mm  15 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	00000000000	15	~					6HDF15PAR03B30X
62 6HDF62PAR03B30X  15 6HDF15PAR04B30X  644 9 8 8 30 6HDF62PAR04B30X  644 0 UNC front, threaded rear spacer clip for PCB 1.6 mm  15 6HDF15PAR04B30X  6HDF62PAR04B30X  6HDF62PAR04B30X  6HDF62PAR04B30X  6HDF62PAR03E20X  6HDF15PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X		26	2.5 (CSA	100	784	2	270	6HDF26PAR03B30X
62 6HDF62PAR03B30X  15 75 100 8 3 830 6HDF42PAR04B30X  644 0 UNC front, threaded rear spacer clip for PCB 1.6 mm  15 6HDF15PAR04B30X  644 0 UNC front, threaded rear spacer clip for PCB 1.6 mm  15 6HDF15PAR04B30X  6HDF62PAR04B30X  6HDF62PAR04B30X  6HDF15PAR03E20X  6HDF26PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR03E20X  6HDF62PAR04E20X	1.10.1010	44		100	E202	3	370 -	6HDF44PAR03B30X
26 VS) 100 EX 3 830 6HDF26PAR04B30X 6HDF44PAR04B30X 6HDF62PAR04B30X 6HDF62PAR04B30X 6HDF62PAR04B30X 6HDF62PAR04B30X 6HDF62PAR04B30X 6HDF62PAR04B30X 6HDF62PAR04B30X 6HDF15PAR03E20X 6HDF62PAR03E20X 6HDF44PAR03E20X 6HDF62PAR03E20X 6HDF62PAR03E20X 6HDF62PAR03E20X 6HDF62PAR04E20X 6HDF15PAR04E20X 6HDF15PAR04E20X 6HDF15PAR04E20X 6HDF26PAR04E20X		62						6HDF62PAR03B30X
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm  15 26 44 100 44 100 62 6HDF15PAR03E20X 6HDF26PAR03E20X 6HDF44PAR03E20X 6HDF62PAR03E20X 6HDF62PAR03E20X 6HDF62PAR03E20X 6HDF62PAR03E20X 6HDF62PAR04E20X 6HDF62PAR04E20X		15	3 (UL) / 2.5 (CSA)					6HDF15PAR04B30X
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm  15 26 47 100 48 27 100 48 28 3 370 6HDF15PAR03E20X 6HDF44PAR03E20X 6HDF62PAR04E20X 6HDF62PAR04E20X 6HDF15PAR04E20X 6HDF26PAR04E20X		26		100	784		020	6HDF26PAR04B30X
62 6HDF62PAR04B30X  4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm  15 6HDF15PAR03E20X 6HDF26PAR03E20X 6HDF44PAR03E20X 6HDF62PAR03E20X 6HDF62PAR04E20X 6HDF62PAR04E20X 6HDF15PAR04E20X 6HDF26PAR04E20X		44		100	E202	3	830 -	6HDF44PAR04B30X
15 (AS) 52 / 100								6HDF62PAR04B30X
26 VS) 97 / (10) E 26 VS) 98 / (	4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm							
62 6HDF62PAR03E20X  15 6HDF15PAR04E20X  6HDF26PAR04E20X  6HDF26PAR04E20X		15						6HDF15PAR03E20X
62 6HDF62PAR03E20X  15 6HDF15PAR04E20X  6HDF26PAR04E20X  6HDF26PAR04E20X	8.8	26	2.5 (CSA)	100	2784	2	270 -	6HDF26PAR03E20X
15 6HDF15PAR04E20X  26 50 100 6 3 830	4-40 UNC	44	3 (UL) / 2	100	E202	3	370	6HDF44PAR03E20X
26 (S) 7 100 KZ 3 830 6HDF26PAR04E20X	STING	62						6HDF62PAR03E20X
26 \(\frac{\xi}{25}\) \(\frac{1}{25}\) \		15						6HDF15PAR04E20X
44 E		26	2.5 (CSA)	100	2784	2	830 -	6HDF26PAR04E20X
) 8 SIDITATIVIOTEZON		44	3 (UL) / 3	100	E202	3	030 =	6HDF44PAR04E20X
62 6HDF62PAR04E20X								6HDF62PAR04E20X

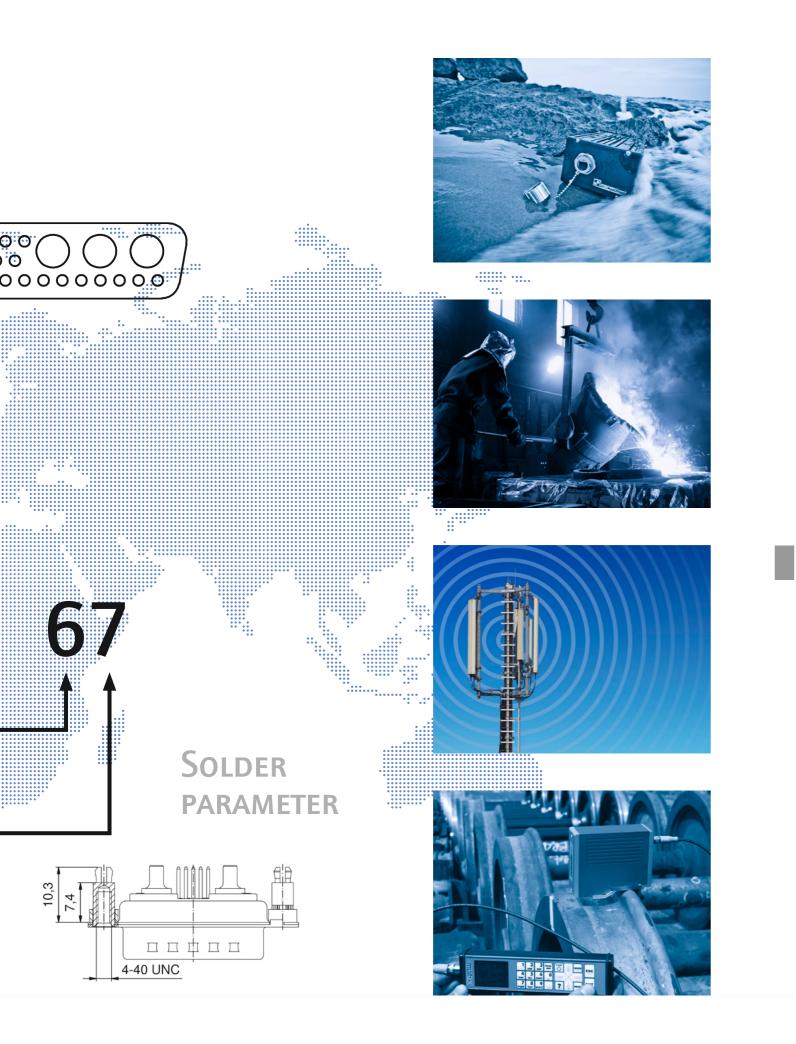
IP67 FILTER D-SUB CONNECTORS Plug connector C-Filter High Density		>	M			1	Shell: Brass tin plated Nickel plated die-cast frame Quality class 3 (A) = 50 mating cycles On request:
Solder pin angled .362"/9.2 mm Precision machined contacts, metal bracket		Current rating [A]	Working voltage [V]	ile	Quality class	Capacitance [pF]	<ul> <li>Quality class 1 (C) = 500 mating cycles</li> <li>M3 thread</li> </ul>
4-40 UNC threaded insert			Wor	UL-File	Qua	Сар	Part No.
Ø3,18	15						6HDF15PAY03R20X
13.5	26	2.5 (CSA)	3 (UL) / 2.5 (CSA)	E202784	3	370	6HDF26PAY03R20X
4-40 UNG	44	3 (UL) /		E20	ŭ		6HDF44PAY03R20X
-O-RING	62						6HDF62PAY03R20X
3,3 6,35	15						6HDF15PAY04R20X
200		26 (VS) 5:7.7(In) 8	100	E202784	3	020	6HDF26PAY04R20X
			100	E202	3	830	6HDF44PAY04R20X
							6HDF62PAY04R20X
Clip for PCB 1.6 mm, 4-40 UNC threaded insert							
000000000	15						6HDF15PAY03R40X
13.5	26	3 (UL) / 2.5 (CSA)	100	784	2	370	6HDF26PAY03R40X
4-40 UNC	44	3(UL)/	100	E202784	3	3/0	6HDF44PAY03R40X
CO-RING	62						6HDF62PAY03R40X
3,3 6,35	15						6HDF15PAY04R40X
286	26	LO		E202784	3		6HDF26PAY04R40X
	44		100			830	6HDF44PAY04R40X
	62						6HDF62PAY04R40X



Notes

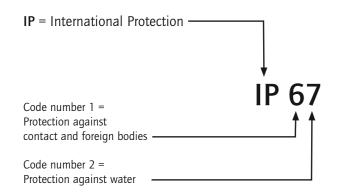






### Protection classes

### Norm IEC 60529



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)

Ркотест	TION CLASS OVERVIEW			
First code digit	Protection against ingress of foreign objects 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 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 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 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 Protected against access with a wire	4	Protection against splashing water	//\ / 1 \ / 1 \
5	Protected against dust in harmful quantities Complete protection against contact	5	Protection against jet water	      
6	Dust-proof Complete protection against contact	6	Protection against powerful jets of water	
		7	Protection against temporary immersion (max. water depth 1 m)	max. 30 min
		8	Protection against constant immersion beyond 1 m An additionally indicated number stands for the maximum immersion depth in meters.	<b>\</b>
		9К	Protection against very strong jets of water, e.g. from high-pressure steam jet cleaners for vehicles.	



### 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

$$\delta = \frac{1}{\sqrt{\int f \pi \, \sigma \, \mu_0 \, \mu_0}}$$

f = frequency

 $\sigma$  = conductivity of the conductor material

 $\sigma_{Aq} = 62 \times 10^6 \text{ S/m}$ 

 $\sigma_{Cu} = 58 \times 10^6 \text{ S/m}$ 

 $\mu_0 = 1,256 \ 10^6 \text{ Vs / Am}$ 

 $\boldsymbol{\mu}_{\!_{\boldsymbol{r}}}\,$  ... relative permeability constant for the employed material

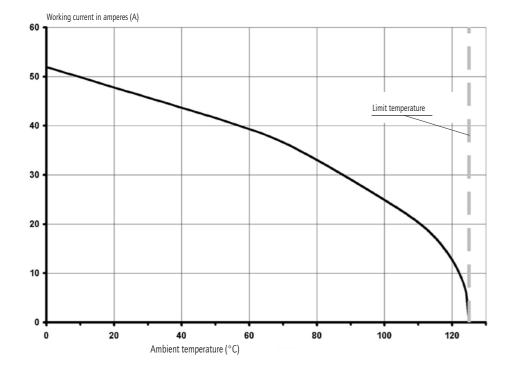
### VSWR-Value

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  $\infty$ ). 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  $\rightarrow$  reflection coefficient r on s transmission line according to the equation

$$s = \frac{(1 + |r|)}{(1 - |r|)}$$

### **DeRating Curve**



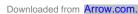
All connectors in the Water Resistant Combination D-Subminiature series are fully loaded with contacts.

They are equipped with either signal, high voltage, high power or coaxial contacts according to requirements.

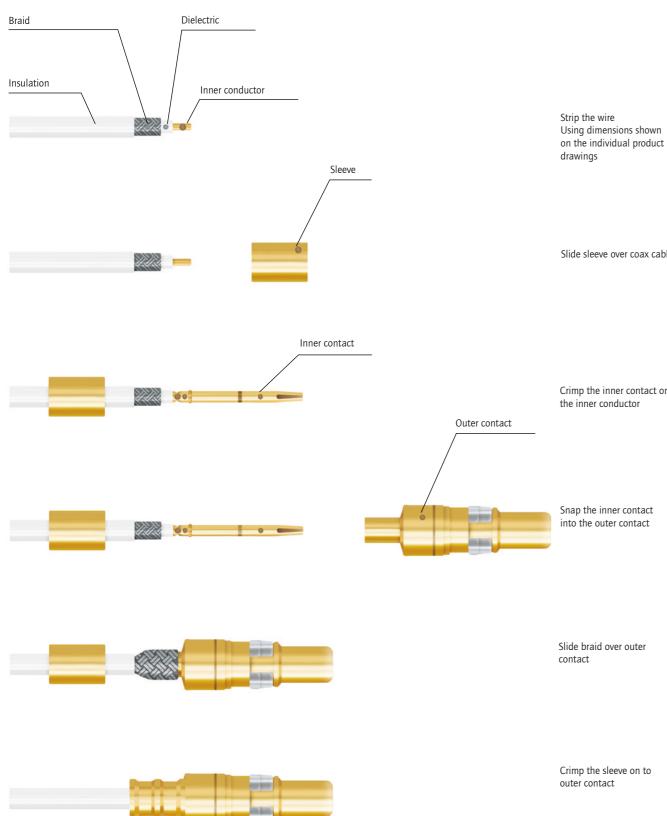
Our production standard requires that all connectors are fully loaded.

Connectors 3W3, 5W5 and 8W8 female: Socket contacts are fingerprobe safe according to UL1950 and CSA 22.2.950 specifications.

**CONEC** 9 263



### Typical Assembly for coaxial crimp contacts (Detailed information upon request)





shown product		
oax cable		
ontact on or		
ntact tact		
iter		
on to		

### Solder profile

Recommended wave - solder parameters for CONEC connectors

Connector Type	Prehe max. temperature	ating max. duration	Solder termination max. solder bath temperature	dipping parameters  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

**CONEC** 9 265

Down	loaded	from	Arrow.co

### Conversion table for units µm/mm/inch

μ <b>m</b>	µ <b>inch</b>	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
1/1000 mm	1/1000 inch		120	1016	400	10.50	760		1 217		1040
0,10 0,20	4 8	3,30	.130 .134	10,16 10,26	.400 .402	19,50	.768 .776	30,90 31,00	1.217 1.220	49,50 49,90	1.949 1.965
0,25	10	3,40 3,50	.134	10,26	.402	19,70 19,80	.776	31,00	1.228	50,10	1.965
0,30	12	3,60	.136	10,56	.406	19,80	.783	31,50	1.220	50,10	1.972
0,50	20	3,70	.142	10,56	.413 .417	20,00	.787	31,70	1.240	50,50	1.988
0,70	28	3,70	.150	10,00	.421	20,00	.791	32,00	1.240	50,70	1.996
0,75	30	3,81	.150	11,00	.433	20,30	.799	32,20	1.268	50,80	2.000
0,80 1,00	32 39	3,90	.154	11,20	.441	20,32	.800	32,30	1.272	51,40	2.024
1,00	50	4,00	.158	11,40	.449	20,50	.807	32,50	1.280	51,50	2.028
2,00	79	4,10	.161	11,50	.453	21,00	.827	32,80	1.291	52,00	2.047
2,50	98	4,20	.165	11,60	.457	21,10	.831	33,00	1.299	52,30	2.059
3,00	118	4,30	.169	11,90	.469	21,70	.854	33,10	1.303	52,80	2.079
4,00	157	4,50	.177	12,00	.472	22,00	.866	33,30	1.311	53,00	2.087
5,00	197	4,70	.185	12,20	.480	22,10	.870	33,80	1.331	53,20	2.095
mm	inch	4,90	.193	12,30	.484	22,20	.874	34,00	1.339	53,80	2.118
	IIICII	5,00	.197	12,40	.488	22,30	.878	34,20	1.346	54,00	2.126
0,10	.004	5,08	.200	12,50	.492	22,40	.882	34,40	1.354	54,20	2.134
0,20	.008	5,10	.201	12,70	.500	22,50	.886	35,00	1.378	54,90	2.161
0,25	.012	5,20	.205	12,90	.508	22,60	.890	35,40	1.394	55,00	2.165
0,35	.014	5,30	.209	13,00	.512	22,80	.898	35,50	1.398	55,40	2.181
0,40	.016	5,40	.213	13,10	.516	22,86	.900	35,56	1.400	55,70	2.193
0,45	.018	5,50	.217	13,20	.520	22,90	.902	35,60	1.402	56,60	2.228
0,50	.020	5,60	.220	13,50	.532	23,00	.906	36,00	1.417	57,40	2.260
0,55	.022	5,70	.224	13,60	.535	23,10	.909	36,50	1.437	57,80	2.276
0,60	.024	5,80	.228	13,70	.539	23,30	.917	36,60	1.441	57,90	2.280
0,64	.025	6,00	.236	13,90	.547	23,50	.925	36,70	1.445	58,42	2.300
0,65	.026	6,10	.240	14,00	.551	24,00	.945	37,00	1.457	59,00	2.323
0,70	.028	6,40	.252	14,30	.563	24,30	.957	37,30	1.469	59,20	2.331
0,75	.030	6,50	.256	14,40	.567	24,60	.969	37,50	1.476	59,80	2.354
0,80	.032	6,60	.260	14,50	.571	24,90	.980	37,60	1.480	59,90	2.358
0,85	.034	6,70	.264	14,70	.579	25,00	.984	37,70	1.484	60,00	2.362
0,90	.035	6,80	.268 .272	14,80	.583 .587	25,10 25,40	.998 1.000	37,90	1.492 1.496	60,96 61,10	2.400 2.406
1,00	.039	6,90	.272	14,90	.587 .590	25,40	1.000	38,00 38,10	1.496	62,00	2.406
1,20	.047 .049	7,00 7,10	.270	14,98 15,00	.591	25,90	1.000	39,00	1.535	63,00	2.441
1,25 1,27	.049	7,10	.283	15,00	.598	26,00	1.020	39,20	1.543	63,50	2.500
1,30	.050	7,20	.203	15,24	.600	26,30	1.035	39,30	1.547	64,00	2.520
1,35	.053	7,40	.295	15,40	.606	26,60	1.047	39,90	1.571	65,00	2.560
1,40	.055	7,60	.299	15,50	.610	26,70	1.051	40,00	1.575	67,00	2.638
1,45	.057	7,62	.300	15,60	.614	27,00	1.063	40,30	1.587	68,00	2.677
1,50	.059	7,70	.303	15,90	.626	27,20	1.071	40,40	1.591	69,00	2.717
1,60	.063	7,80	.307	16,00	.630	27,40	1.079	40,60	1.598	70,00	2.756
1,70	.067	7,98	.314	16,20	.638	27,50	1.093	41,00	1.614	71,00	2.795
1,80	.071	8,00	.315	16,50	.650	27,90	1.098	41,60	1.638	74,00	2.913
1,85	.073	8,18	.318	16,60	.654	27,94	1.100	42,70	1.681	75,00	2.953
1,90	.075	8,20	.323	16,80	.661	28,00	1.102	43,18	1.700	76,20	3.000
2,00	.079	8,30	.327	17,00	.669	28,20	1.110	44,20	1.740	77,00	3.032
2,10	.083	8,40	.331	17,20	.677	28,50	1.122	44,80	1.764	78,74	3.100
2,20	.087	8,50	.335	17,30	.681	28,70	1.130	45,80	1.803	80,00	3.150
2,30	.091	8,60	.339	17,50	.689	29,00	1.142	46,30	1.823	81,28	3.200
2,40	.095	8,90	.350	17,60	.693	29,20	1.150	46,70	1.839	84,00	
2,50	.098	9,00	.354	17,70	.697	29,40	1.158	47,00	1.850	85,00	3.346
2,54	.100	9,10	.358	17,78	.700	29,50	1.161	47,20	1.858	86,36	3.400
2,60	.102	9,20	.362	17,80	.701	29,70	1.169	47,30	1.862	88,90	
2,70	.106	9,30	.366	17,90	.705	29,90	1.177	47,50	1.870	90,00	3.543
2,80	.110	9,40	.370	18,00	.709	30,00	1.181	47,80	1.882	91,44	3.600
2,84	.112	9,50	.374	18,10	.713	30,20	1.189	48,00	1.890	94,00	3.701
2,90	.114	9,60	.378	18,30	.721 .732	30,40	1.197 1.200	48,10	1.894 1.900	95,00	3.740 3.937
3,00	.118	9,70 9,90	.382 .390	18,60 19,00	.732 .748	30,48 30,50	1.200	48,26 48,80	1.900	100,00 110,00	4.331
3,10	.122 .126	10,00	.390	19,00	.748 .756	30,50	1.201	48,80	1.933	120,00	4.331
3,20	.120	1 10,00	.555	1 15,20	.730	1 30,00	1.213	1 45,10	1.333	1 120,00	4.724



Notes

**CONEC** 9 267







### 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 co	ontacts	
LA BOOK	Extraction tool	360X10219X



### Installation and Assembly tools

### 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 for stamped contacts on reel	360X10069X

CONEC 10 | 271



### Installation and Assembly tools

### Crimp tools and inserts

for D-SUB, HD-SUB connectors with crimp contacts and D-SUB combination connectors with coaxial contacts (inner conductor)

Hand crimp tool

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	$\rightarrow$	5
131J31019X	132J31019X	360X11049X	26	$\rightarrow$	5
131J31029X	132J31029X	360X11049X	28	$\rightarrow$	4
131J33019X	132J33019X	360X11059X	30	$\rightarrow$	3



### Crimp tools and inserts

for D-SUB standard connectors with stamped contacts	Description	Part. No.
SEL STATE OF THE PARTY OF THE P	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)
	131C11019X	132C11019X	360X20029X	16 (3)	18 (2)	20 (2)
D-Sub Combination	131C11029X	132C11029X	360X20029X	12 (5)	14 (4)	
High power contacts	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

**CONEC** 10 | 273



### Crimp tools and inserts

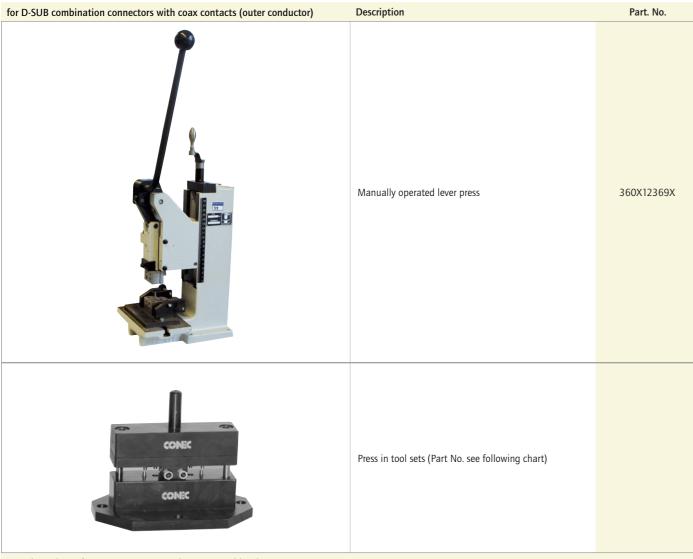
for D-SUB combination connectors with coax contacts (outer conductor)	Description	Part. No.
	Hand crimp tool	360X10519X
Inserts for you with hand summ tool 260 Y0220 Y/D SUB Combination costs on	Inserts (Part No. see following chart)	

### 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	С
131J20029X	132J20029X	360X11019X	В
131J20039X	132J20039X	360X11019X	А
131J20049X	132J20049X	360X11029X	А
131J20059X	132J20059X	360X11039X	В
131J21019X	132J21019X	360X11019X	В
131J21029X	132J21029X	360X11039X	В
131J21039X	132J21039X	360X11029X	А
131J22019X	132J22019X	360X11019X	В
131J22029X	132J22029X	360X11019X	С
131J22039X	132J22039X	360X11039X	В
131J23019X	132J23019X	360X11019X	В
131J30019X	132J30019X	360X11019X	В
131J30029X	132J30029X	360X11019X	В
131J31019X	132J31019X	360X11019X	В
131J31029X	132J31029X	360X11019X	А
131J33019X	132J33019X	360X11019X	В



### Manually operated lever press + press in tool sets

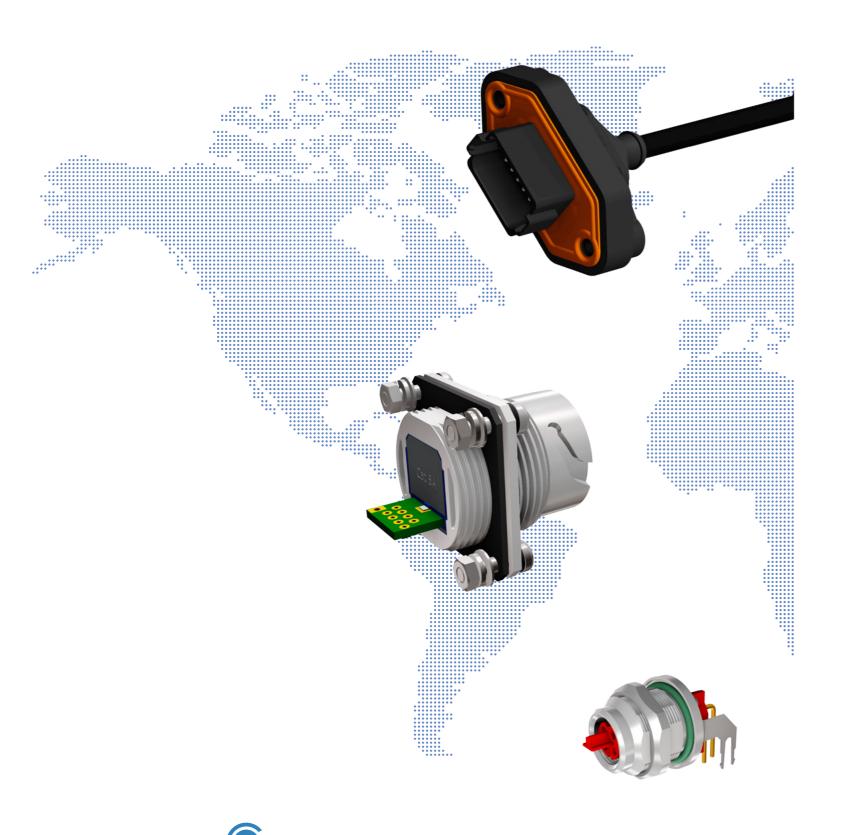


### Press in tool sets for D-SUB, HD-SUB and D-SUB Combination Connectors

Tress in consecs for a-sour, tra-sour and a-sour communication	
Туре	Part. No.
2W2C	360X00159A
3W3	360X00169A
3W3C	360X00169A
5W5	360X00179A
8W8	360X00189A
9-pos./15-pos. HD	360X15019X
15-pos./26-pos. HD	360X15029X
25-pos./44-pos. HD	360X15039X
37-pos./62-pos. HD	360X15049X
50-pos./78-pos. HD	360X15059X
9-pos./15-pos. HD	360X15069X
15-pos./26-pos. HD	360X15079X
25-pos./44-pos. HD	360X15089X
37-pos./62-pos. HD	360X15099X
50-pos./78-pos. HD	360X15109X
	Type  2W2C  3W3  3W3C  5W5  8W8  9-pos./15-pos. HD  15-pos./26-pos. HD  25-pos./44-pos. HD  37-pos./62-pos. HD  50-pos./78-pos. HD  9-pos./15-pos. HD  15-pos./26-pos. HD  37-pos./62-pos. HD

CONEC 10 | 275







Downloaded from Arrow.com

**CONEC** 11 | 277

### Additional CONEC product categories



### 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



### 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. 6 A 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

**CONEC** 11 | 279

### **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)



### 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



### 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

**CONEC** 11 | 281

### Additional CONEC product categories

### 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



### 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

**CONEC** 11 | 283

### **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



### 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



### Additional CONEC product categories

### DT, Superseal and ISOBUS series



### Details

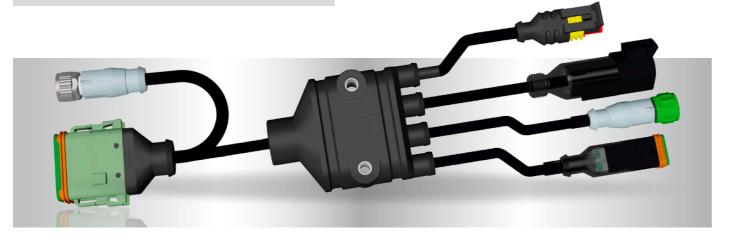
- No. of poles: 2-, 3-, 4-, 6-, 8-, 12-pos. (DT-Series) 2-, 3-, 4-, 5-, 6-pos. (Superseal), 9-pos. (ISOBUS)
- PUR Cable 0.75 mm<sup>2</sup>/AWG 18
- Optional with M12-thread (DT-Series)
- Optional with LED and protection circuit (DT-Series: 2- und 3-pos.)
- Available with single wire (2-pos. DT-Series 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

**CONEC** 11 | 285

### 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, 3Cable 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



### Additional CONEC product categories

### PCB connectors

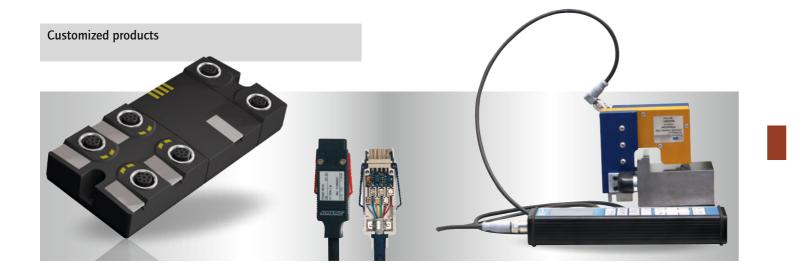




### Overview

- DIN EN 60603-2
- DIN 41617
- AdvancedTCA

- Flat cable connector
- CompactPCI
- PC104/PC104Plus



### 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

**CONEC** 11 | 287



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 USA, Garner



# Application-specific-solutions R 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





# TECHNOLOGY IN CONNECTORS

### CONEC

Elektronische Bauelemente GmbH Ostenfeldmark 16 59557 Lippstadt Germany

Tel. +49 2941 765-0 Fax +49 2941 76565 E-Mail info@conec.de www.conec.com





### **CONEC Corporation** 125 Sun Pac Blvd. Brampton Ontario Canada L6S 5Z6 Tel. +1 905 790 2200 Fax +1 905 790 2201

E-Mail info@conec.com



### American CONEC Corporation

343 Technology Drive Garner, NC, USA 27529 Tel. +1 919 460 8800 Fax +1 919 460 0141 E-Mail info@conec.com



### CONEC Polska Sp. zo.o ul.Szmaragdowa 10 52-215 Wroclaw Tel. +48 71 374 40 45

Fax +48 71 374 40 49 E-Mail info@conec.pl



### CONEC s.r.o. Loucka137 76325 Ujezd Czech Republic Tel. +420 577 350 132 Fax +420 577 350 134

E-Mail info@conec.cz



### **CONEC France SARL**

202 Rue des Chevreuils 30320 Poulx Tel. +33 9 75267217 Fax +33 4 66570916 E-Mail info@conec.fr



### CONEC (Shanghai)

Int. Trading Co., Ltd. Rm. 718 Yongding Bldg. No. 3388 Gong He Xin Rd. 200436 Shanghai Tel. +86 21 66300930 Fax +86 21 66300911 E-Mail info@conec.cn

### GB D-SUB/IP67 D-SUB **CONNECTORS**

D-SUB/IP67 D-SUB CONNECTORS







Downloaded from Arrow.com.