

D-SUB/IP67 D-SUB CONNECTORS

CONEC®

TECHNOLOGY IN CONNECTORS™



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





TECHNOLOGY IN CONNECTORS™

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

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

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

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

CONEC Germany, Lippstadt




CONEC Canada, Brampton



CONEC USA, Garner





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

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

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



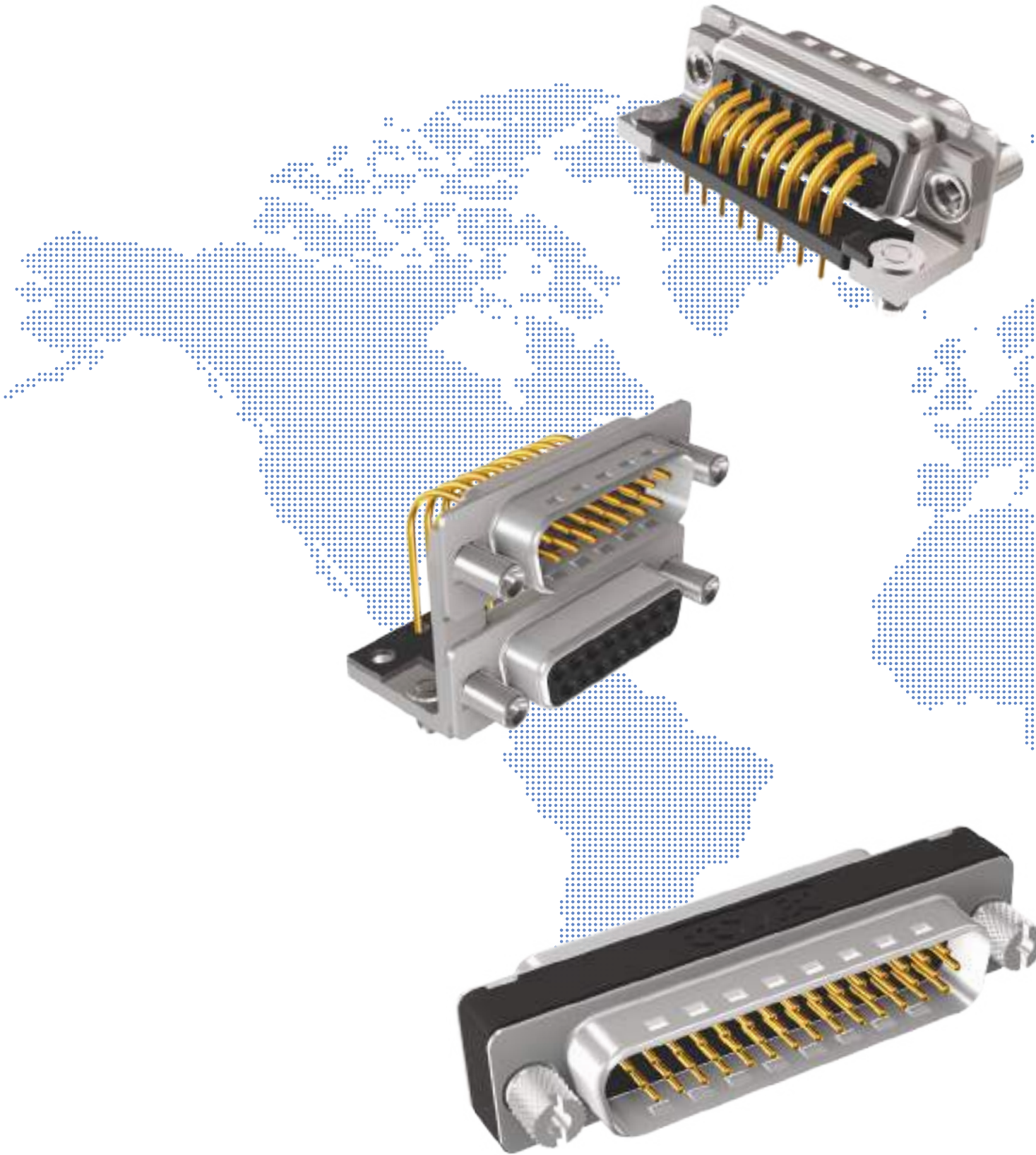
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SECTION 1

D-SUB CONNECTORS





D-SUB CONNECTORS

Product specification

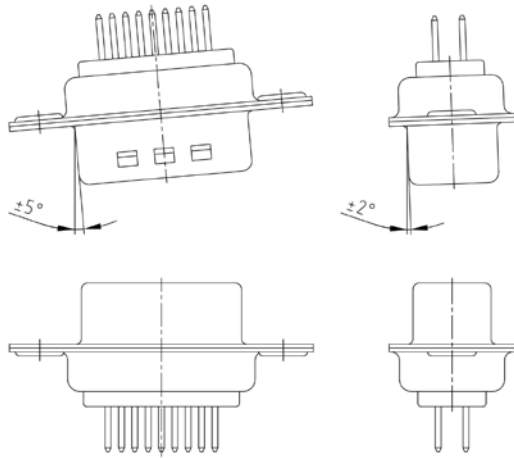
Basic material	D-SUB 9-, 15-, 25-, 37-, 50-pos.	D-SUB High Density 15-, 26-, 44-, 62-, 78-pos.
Contact	Copper alloy	
Contact plating	Gold over nickel	
Insulator	PBT GF UL 94 V-0	
Shell	Steel tin plated / nickel plated (on request brass tin plated or stainless steel)	
Technical Data		
Test voltage	1000 V, 50 Hz, for 1 Minute	
Working voltage	125 V AC/DC depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1	
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	3 A (UL, VDE) / 2.5 A (CSA)
Contact resistance	max. 10 mΩ prior to stressing ΔR max. 10 mΩ after stressing per IEC 60807-2	
Insulation resistance	≥ 5 GΩ	
Clearance and creepage distance	Contact - Contact ≥ 1.0 mm / 0.04" Contact - earth ≥ 1.2 mm / 0.047"	≥ 0.6 mm / 0.024"
Operating temperature	-55 °C to +125 °C	
Mating and unmating forces	9-pos. ≤ 30 N 15-pos. ≤ 50 N 25-pos. ≤ 83 N 37-pos. ≤ 123 N 50-pos. ≤ 167 N	15-pos. ≤ 50 N 26-pos. ≤ 84 N 44-pos. ≤ 120 N 62-pos. ≤ 170 N 78-pos. ≤ 200 N
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles	

Technical specifications are subject to change without notice.

D-SUB CONNECTORS

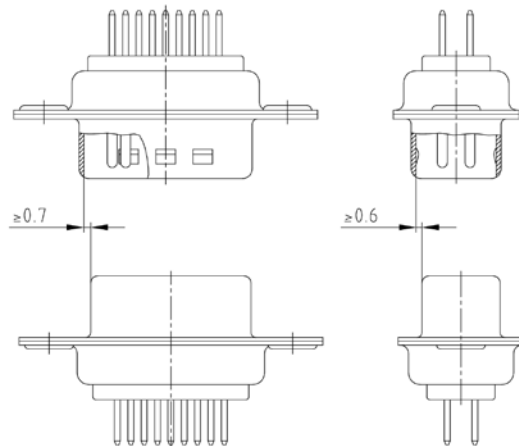
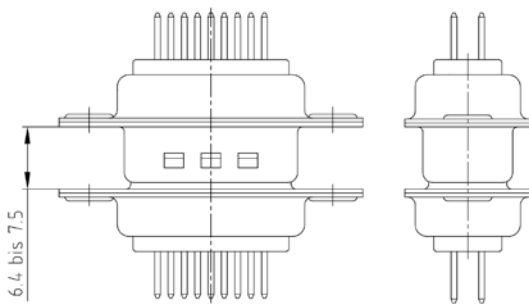
Mating conditions

Max. tilt angle for connector mating



Range for safe contact

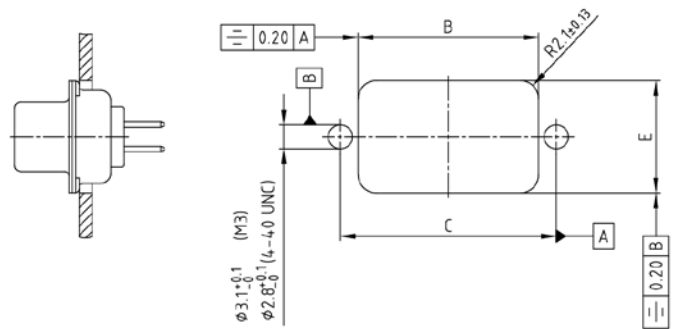
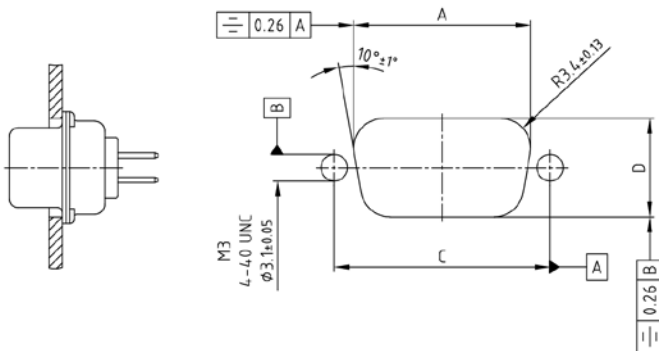
Lock-in range



Panel cut-out

Back panel mounting

Front panel mounting



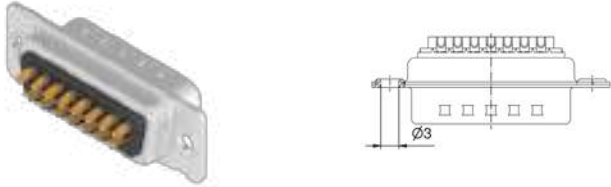
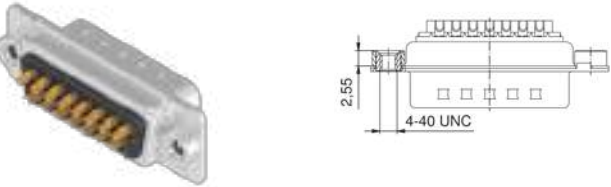
Shell size	No. of poles	A ±0.1	B ±0.1	C ±0.1	D ±0.1	E ±0.1
1	9 15	20.50	20.90	25.00	11.40	13.00
2	15 26	28.80	29.20	33.30	11.40	13.00
3	25 44	42.50	42.90	47.04	11.40	13.00
4	37 62	59.10	59.40	63.50	11.40	13.00
5	50 78	56.30	57.00	61.10	14.10	15.80

Technical specifications are subject to change without notice.

D-SUB CONNECTORS Standard

Solder cup
Precision machined contacts, AWG 20

Through-hole Ø 3 mm

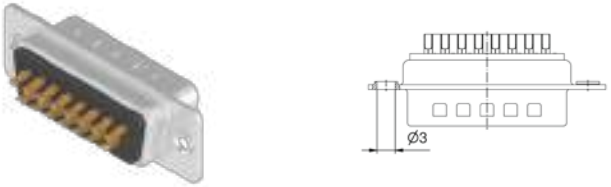
		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	9	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A10019X	163A11069X	
	15					164A10029X	163A11079X	
	25					164A10039X	163A11089X	
	37					164A10049X	163A11099X	
	50					164A10059X	163A11109X	
4-40 UNC threaded insert								
	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A10219X	163A11269X	
	15					164A10229X	163A11279X	
	25					164A10239X	163A11289X	
	37					164A10249X	163A11299X	
	50					164A10259X	163A11309X	

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

D-SUB CONNECTORS Standard

Solder cup
Stamped contacts, AWG 20

Through-hole Ø 3 mm

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

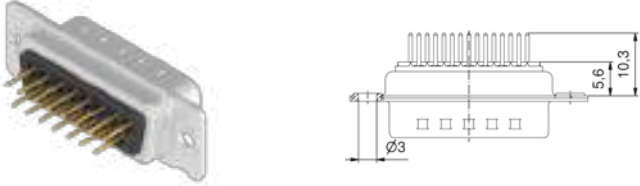
Shell: Steel nickel plated
Quality class 3 (A) = 50 mating cycles

D-SUB CONNECTORS Standard

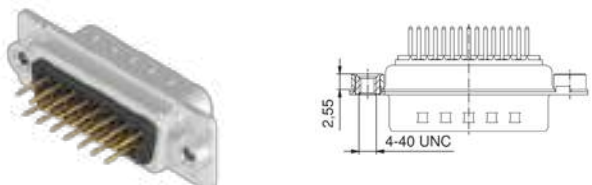
Solder pin, straight
Precision machined contacts

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

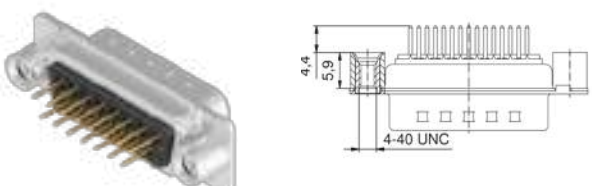
Through-hole \varnothing 3 mm

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

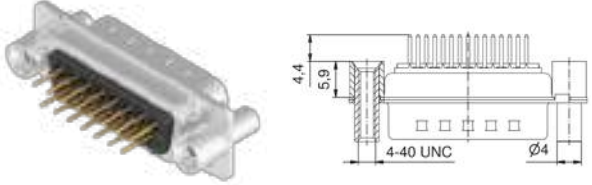
4-40 UNC threaded insert

	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A10319X	163A11369X
	15					164A10329X	163A11379X
	25					164A10339X	163A11389X
	37					164A10349X	163A11399X
	50					164A10359X	163A11409X

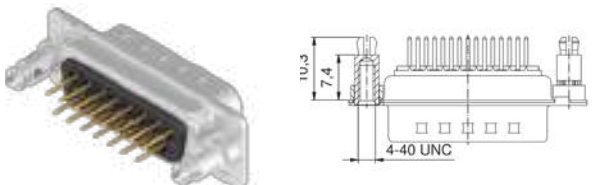
4-40 UNC threaded rear spacer

	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A12029X	163A13629X
	15					164A12039X	163A13639X
	25					164A12049X	163A13649X
	37					164A12059X	163A13659X
	50					164A12069X	163A13669X

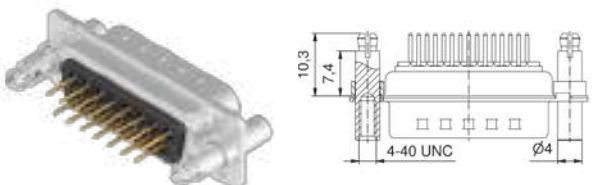
4-40 UNC front, threaded rear spacer

	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A12129X	163A13729X
	15					164A12139X	163A13739X
	25					164A12149X	163A13749X
	37					164A12159X	163A13759X
	50					164A12169X	163A13769X

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

	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A16569X	163A16159X
	15					164A16579X	163A16169X
	25					164A16589X	163A16179X
	37					164A16599X	163A16189X
	50					164A16609X	163A16199X

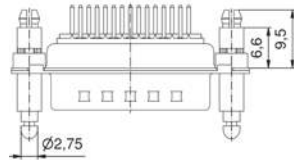
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm

	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A16669X	163A16259X
	15					164A16679X	163A16269X
	25					164A16689X	163A16279X
	37					164A16699X	163A16289X
	50					164A16709X	163A16299X

D-SUB CONNECTORS Standard

CONEC SnapLock, Solder pin, straight Precision machined contacts

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



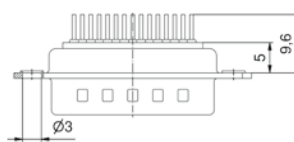
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA VDE)	125	E202784	3	16-002143	16-002093
15					16-002153	16-002103
25					16-002163	16-002113
37					16-002173	16-002123
50					16-002183	16-002133

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

D-SUB CONNECTORS Standard

Solder pin, straight Stamped contacts

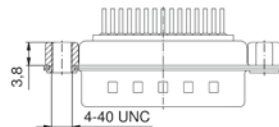
Through-hole Ø 3 mm



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

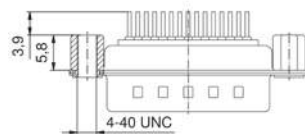
Shell: Steel nickel plated
Quality class 3 (A) = 50 mating cycles

4-40 UNC threaded insert



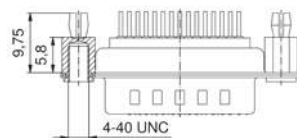
09	3	125		3	DLS1XS4AG06X	DLS1XP4AG06X
15					DLS2XS4AG06X	DLS2XP4AG06X
25					DLS3XS4AG06X	DLS3XP4AG06X
37					DLS4XS4AG06X	DLS4XP4AG06X
50					DLS5XS4AG06X	DLS5XP4AG06X

4-40 UNC threaded rear spacer



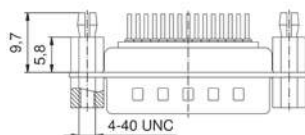
09	3	125		3	DLS1XS4AA37X	DLS1XP4AA37X
15					DLS2XS4AA37X	DLS2XP4AA37X
25					DLS3XS4AA37X	DLS3XP4AA37X
37					DLS4XS4AA37X	DLS4XP4AA37X
50					DLS5XS4AA37X	DLS5XP4AA37X

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



09	3	125		3	DLS1XS4AA35X	DLS1XP4AA35X
15					DLS2XS4AA35X	DLS2XP4AA35X
25					DLS3XS4AA35X	DLS3XP4AA35X
37					DLS4XS4AA35X	DLS4XP4AA35X
50					DLS5XS4AA35X	DLS5XP4AA35X

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

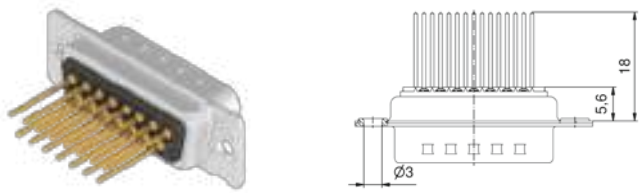


09	3	125		3	DLS1XS4AA39X	DLS1XP4AA39X
15					DLS2XS4AA39X	DLS2XP4AA39X
25					DLS3XS4AA39X	DLS3XP4AA39X
37					DLS4XS4AA39X	DLS4XP4AA39X
50					DLS5XS4AA39X	DLS5XP4AA39X

D-SUB CONNECTORS Standard

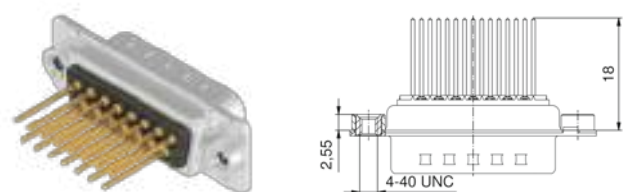
Wire wrap
Precision machined contacts

Through-hole \varnothing 3 mm

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

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

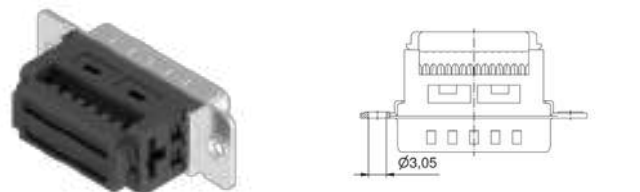
4-40 UNC threaded insert

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

D-SUB CONNECTORS Standard

IDC for flat cable
Stamped contacts, AWG 26-28

Through-hole \varnothing 3 mm

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


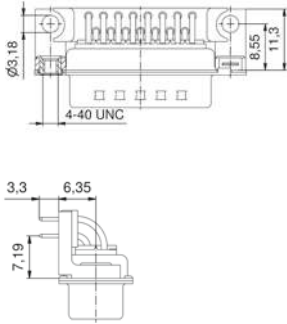
Shell: Steel nickel plated
Quality class 3 (A) = 50 mating cycles
Connector includes strain relief

D-SUB CONNECTORS Standard


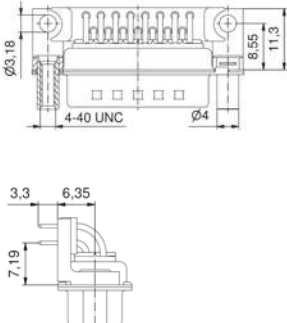
Solder pin, angled, .318"/7.19 mm
Precision machined contacts, metal bracket

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


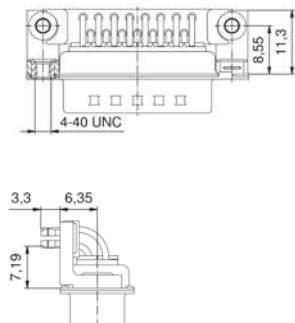
4-40 UNC threaded insert

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


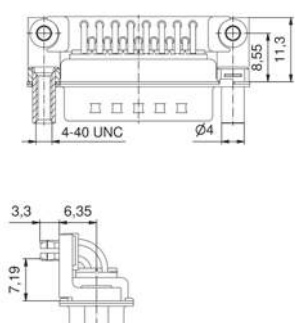
4-40 UNC front spacer

 	09	75 (UI) / 5 (CSA VDE)	125	E202784	3	164A16929X	163A16519X
	15					164A16939X	163A16529X
	25					164A16949X	163A16539X
	37					164A16959X	163A16549X
	50					164A19019X	163A18589X

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

 	09	75 (UI) / 5 (CSA VDE)	125	E202784	3	164A17939X	163A17529X
	15					164A17949X	163A17539X
	25					164A17959X	163A17549X
	37					164A17969X	163A17559X
	50					164A18989X	163A18569X

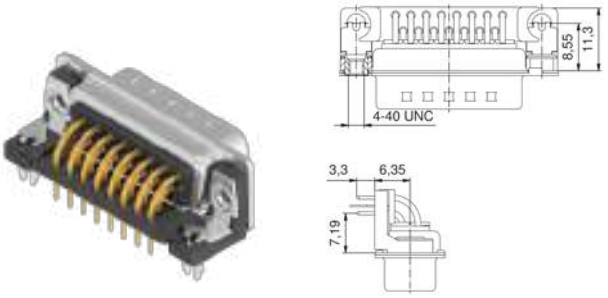
Clip for PCB 1.6 mm, 4-40 UNC front spacer

 	09	75 (UI) / 5 (CSA VDE)	125	E202784	3	164A19039X	163A18609X
	15					164A19049X	163A18619X
	25					164A19059X	163A18629X
	37					164A19069X	163A18639X
	50					164A19079X	163A18649X

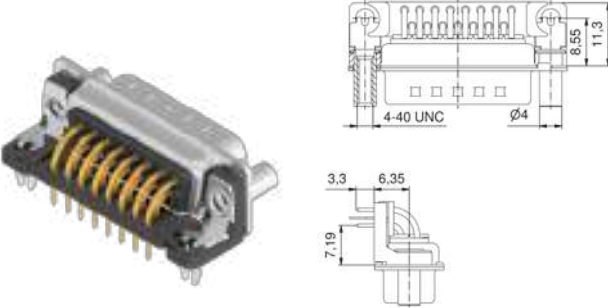
D-SUB CONNECTORS
Standard

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

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

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

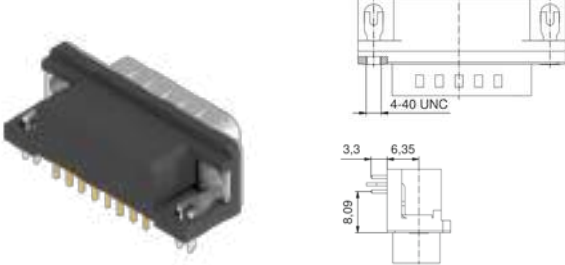
Clip for PCB 1.6 mm, 4-40 UNC front spacer

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

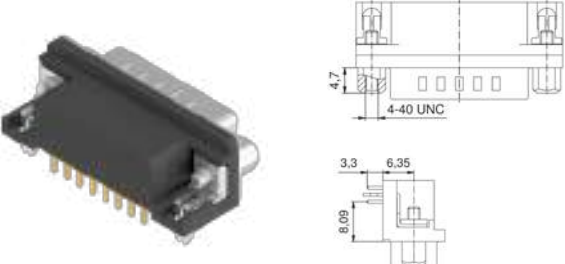
D-SUB CONNECTORS
Standard

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

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

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

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

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

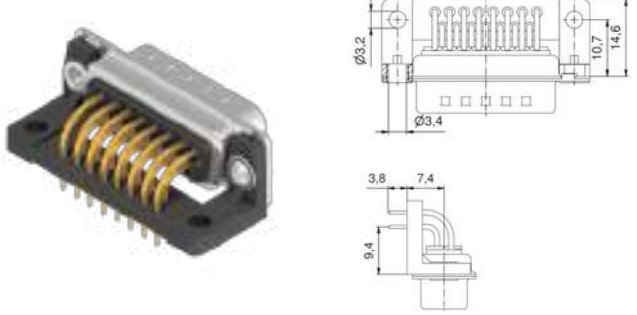
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

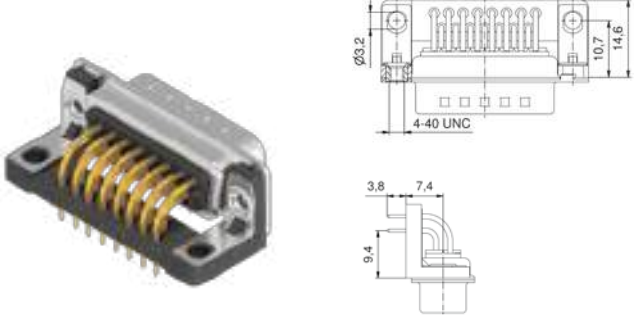
D-SUB CONNECTORS Standard

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

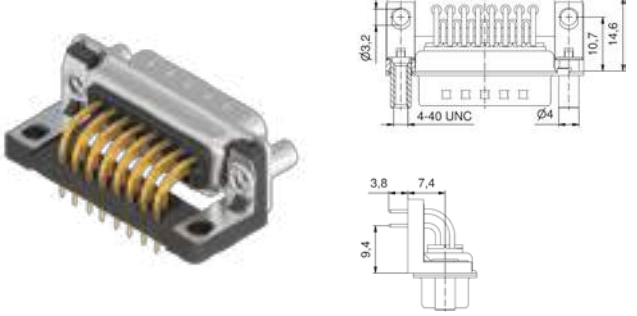
Through-hole \varnothing 3,4 mm

	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
		09	75 (UI) / 5 (CSA VDE)	125	E202784	3	164A10669X
	15	164A10679X					163A11729X
	25	164A10689X					163A11739X
	37	164A10699X					163A11749X
	50	164A10709X					163A11759X

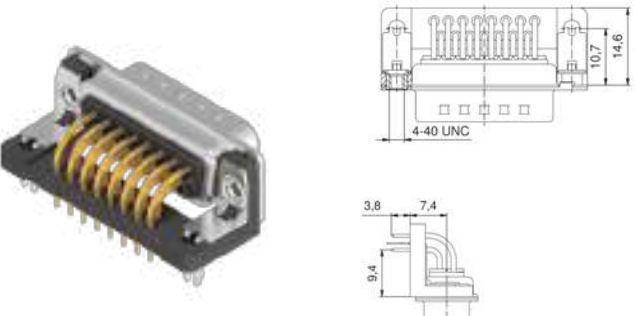
Grounding strap, 4-40 UNC threaded insert

	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
		09	75 (UI) / 5 (CSA VDE)	125	E202784	3	164A12329X
	15	164A12339X					163A14129X
	25	164A12349X					163A14139X
	37	164A12359X					163A14149X

Grounding strap, 4-40 UNC front spacer

	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
		09	75 (UI) / 5 (CSA VDE)	125	E202784	3	164A12229X
	15	164A12239X					163A13839X
	25	164A12249X					163A13849X
	37	164A12259X					163A13859X

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

	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
		09	75 (UI) / 5 (CSA VDE)	125	E202784	3	164A12969X
	15	164A12979X					163A14499X
	25	164A12989X					163A14509X
	37	164A12999X					163A14519X
	50	164A19139X					163A18709X

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

D-SUB CONNECTORS
Standard

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

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

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

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

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

4-40 UNC threaded insert

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

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

Image	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.	
						Socket contact	Plug contact
	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A16769X	163A16359X
	15					164A16779X	163A16369X
	25					164A16789X	163A16379X
	37					164A16799X	163A16389X
	50					164A18759X	163A18339X

D-SUB CONNECTORS
Standard

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

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

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

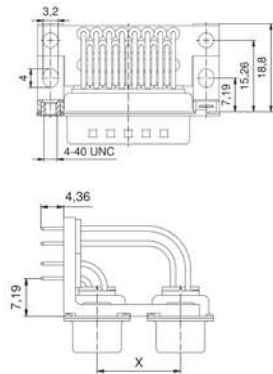
Shell: Steel nickel plated
Quality class 3 (A) = 50 mating cycles

D-SUB CONNECTORS Dual Port

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

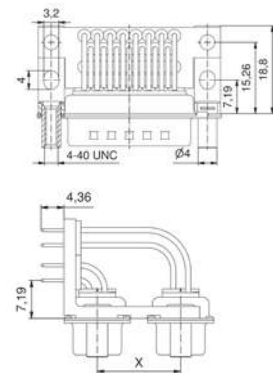
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert



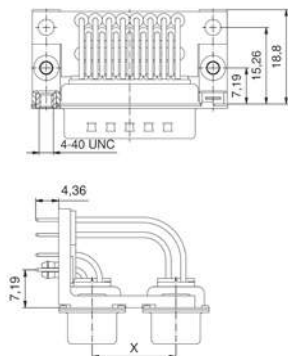
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A15199X
15/15						163A15209X
25/25						163A15219X
37/37						163A15229X
09/09					.750 19.05	163A15519X
15/15						163A15529X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

4-40 UNC front spacer



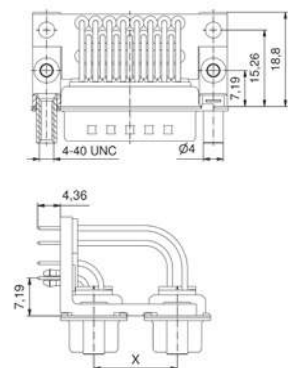
09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A15359X
15/15						163A15369X
25/25						163A15379X
37/37						163A15389X
09/09					.750 19.05	163A15679X
15/15						163A15689X
25/25						163A15699X
37/37						163A15709X

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



09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A19969X
15/15						163A19979X
25/25						163A19989X
37/37						163A19999X
09/09					.750 19.05	163A19489X
15/15						163A19499X
25/25						163A19509X
37/37						163A19519X

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




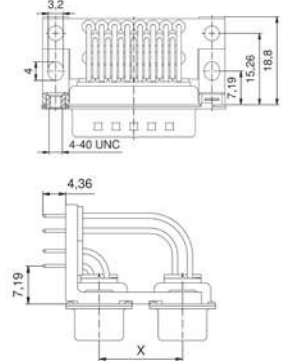
09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A19329X
15/15						163A19339X
25/25						163A19349X
37/37						163A19359X
09/09					.750 19.05	163A19649X
25/25						163A19659X
25/25						163A19669X
37/37						163A19679X

D-SUB CONNECTORS Dual Port


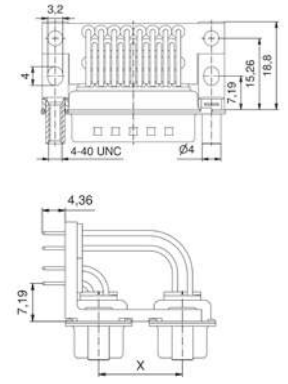
Plug upper - Socket bottom
Solder pin, angled, precision machined contacts

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


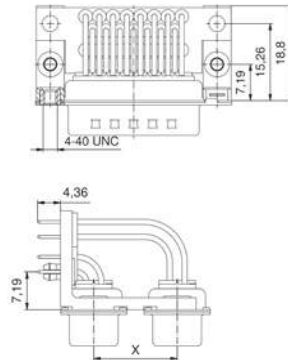
4-40 UNC threaded insert

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


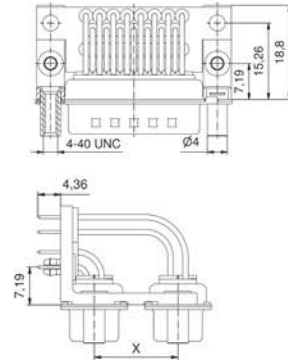
4-40 UNC front spacer

 	09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A15399X
	15/15						163A15409X
	25/25						163A15419X
	37/37						163A15429X
	09/09					163A15719X	
	15/15					163A15729X	
	25/25					163A15739X	
	37/37					163A15749X	

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

 	09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A20009X
	15/15						163A20019X
	25/25						163A20029X
	37/37						163A20039X
	09/09					163A19529X	
	15/15					163A19539X	
	25/25					163A19549X	
	37/37					163A19559X	

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

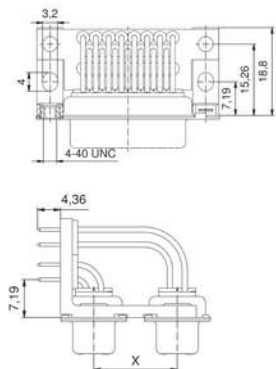
 	09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A19369X
	15/15						163A19379X
	25/25						163A19389X
	37/37						163A19399X
	09/09					163A19689X	
	15/15					163A19699X	
	25/25					163A19709X	
	37/37					163A19719X	

D-SUB CONNECTORS Dual Port

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

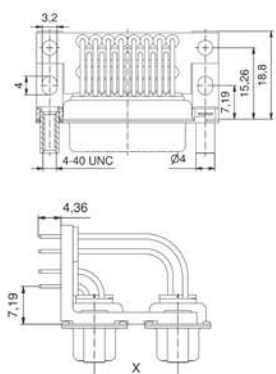
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert



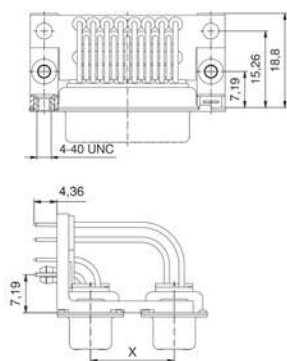
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A15609X
15/15						164A15619X
25/25						164A15629X
37/37						164A15639X
09/09					.750 19.05	164A15929X
15/15						164A15939X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

4-40 UNC front spacer



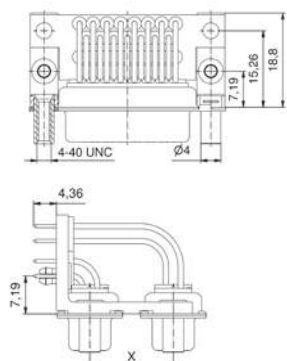
09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A15769X
15/15						164A15779X
25/25						164A15789X
37/37						164A15799X
09/09					.750 19.05	164A16089X
15/15						164A16099X
25/25						164A16109X
37/37						164A16119X

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



09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A20409X
15/15						164A20419X
25/25						164A20429X
37/37						164A20439X
09/09					.750 19.05	164A19919X
15/15						164A19929X
25/25						164A19939X
37/37						164A19949X

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




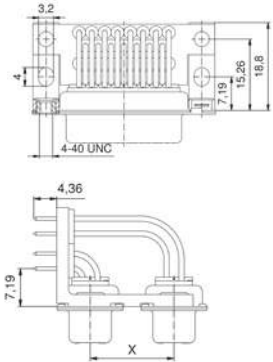
09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A19759X
15/15						164A19769X
25/25						164A19779X
37/37						164A19789X
09/09					.750 19.05	164A20079X
15/15						164A20089X
25/25						164A20099X
37/37						164A20109X

D-SUB CONNECTORS Dual Port


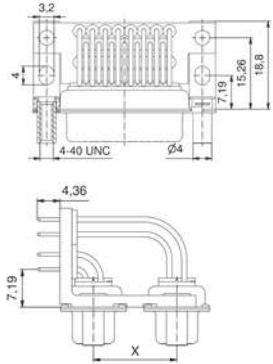
Socket upper - Plug bottom
Solder pin, angled, precision machined contacts

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


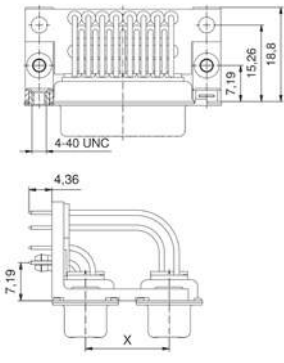
4-40 UNC threaded insert

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


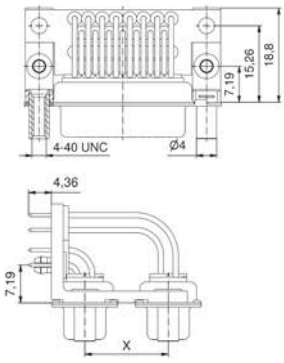
4-40 UNC front spacer

 	09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A15809X
	15/15						164A15819X
	25/25						164A15829X
	37/37						164A15839X
	09/09					164A16129X	
	15/15					164A16139X	
	25/25					164A16149X	
	37/37					164A16159X	

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

 	09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A20449X
	15/15						164A20459X
	25/25						164A20469X
	37/37						164A20479X
	09/09					164A19959X	
	15/15					164A19969X	
	25/25					164A19979X	
	37/37					164A19989X	

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



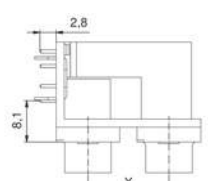
 	09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A19799X
	15/15						164A19809X
	25/25						164A19819X
	09/09						164A20119X
	15/15					164A20129X	
	25/25					164A20139X	
	37/37					164A20149X	

D-SUB CONNECTORS
Dual Port

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



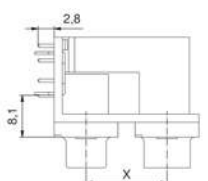
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

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

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



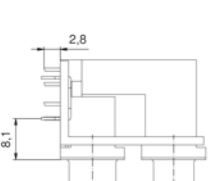
Plug upper - Socket bottom
Solder pin, angled, stamped contacts

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

		09/09	3	125		3	.625 15.88	DLS1PS5AN21X
		15/15						DLS2PS5AN21X
		25/25						DLS3PS5AN21X
		37/37						DLS4PS5AN21X
		09/09						DLS1PS5AN23X
		15/15						DLS2PS5AN23X
		25/25					.750 19.05	DLS3PS5AN23X
		37/37	DLS4PS5AN23X					

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

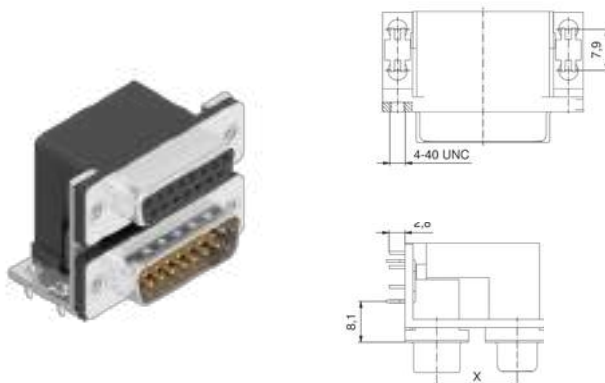
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

		09/09	3	125		3	.625 15.88	DLS1SS5AN21X
		15/15						DLS2SS5AN21X
		25/25						DLS3SS5AN21X
		37/37						DLS4SS5AN21X
		09/09						DLS1SS5AN23X
		15/15						DLS2SS5AN23X
		25/25					.750 19.05	DLS3SS5AN23X
		37/37	DLS4SS5AN23X					

D-SUB CONNECTORS Dual Port

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

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

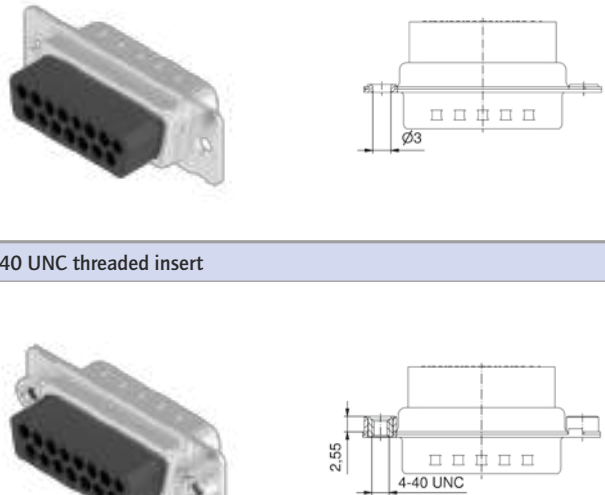
	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.			
							Socket contact	Plug contact		
	09/09	3	125		3	.625 15.88		DLS1SP5AN21X		
	15/15							DLS2SP5AN21X		
	25/25							DLS3SP5AN21X		
	37/37							DLS4SP5AN21X		
	09/09							.750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

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

D-SUB CONNECTORS Standard

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

Through-hole \varnothing 3 mm

	No. of poles	Working voltage [V]	UL-File	Part No.	
				Socket contact	Plug contact
	09	125	E202784	164X11769X	163X10019X
	15			164X11779X	163X10029X
	25			164X11789X	163X10039X
	37			164X11799X	163X10049X
	50			164X11809X	163X10059X
4-40 UNC threaded insert	09	125	E202784	DSS1XSXXG04X	DSS1XPXXG04X
	15			DSS2XSXXG04X	DSS2XPXXG04X
	25			DSS3XSXXG04X	DSS3XPXXG04X
	37			DSS4XSXXG04X	DSS4XPXXG04X
	50			DSS5XSXXG04X	DSS5XPXXG04X

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

D-SUB CONNECTORS Standard


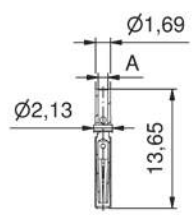
Crimp-contacts, precision machined

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


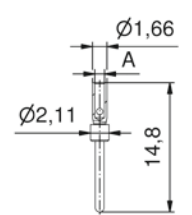
Female contact

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

Female contact closed entry

		24-20	7.5	1,12	1	✓	132C15019X
		100					
		28-24	5	0,6			


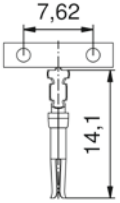

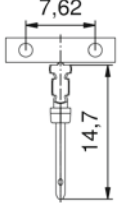

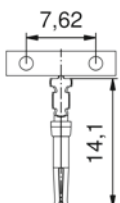

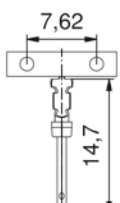
Male contact

		500	24-20	7.5	1,12	3	✓	161A18299X
		100						16-001673
500	28-24	5	0,64	3	✓	161A18309X		
100						16-001683		

D-SUB CONNECTORS Standard

Crimp-contacts, stamped


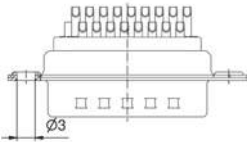
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

Female contact, AWG 24-20		Quantity [pcs]	Current rating [A]	Loose contacts	Small reel wheeled left	Big reel wheeled left	Big reel wheeled right	Quality class	Part No.
		500		✓					162A11849X
		7.5			✓			3	162A11839X
		10000					✓		162A11819X
								✓	162A11829X
Male contact, AWG 24-20									
		500		✓					161A13399X
		7.5			✓			3	161A13389X
		10000					✓		161A13369X
								✓	161A13379X
Female contact, AWG 28-24									
		500		✓					162A11889X
		5			✓			3	162A11879X
		10000					✓		162A11859X
								✓	162A11869X
Male contact, AWG 28-24									
		500		✓					161A13439X
		5			✓			3	161A13429X
		10000					✓		161A13409X
								✓	161A13419X

D-SUB CONNECTORS High Density


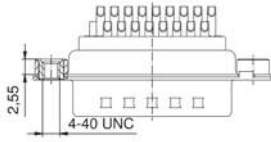
Solder cup
Precision machined contacts, AWG 22

Through-hole \varnothing 3 mm

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

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


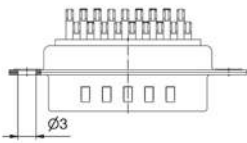
4-40 UNC threaded insert

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

D-SUB CONNECTORS High Density

Solder cup
Stamped contacts, AWG 22

Through-hole \varnothing 3 mm

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

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

D-SUB CONNECTORS
High Density

Solder pin, straight
Precision machined contacts

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

Through-hole Ø 3 mm

No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A17159X	163A16749X
26					164A17169X	163A16759X
44					164A17179X	163A16769X
62					164A17189X	163A16779X
78					164A17199X	163A16789X

4-40 UNC threaded insert

15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A17209X	163A16799X
26					164A17219X	163A16809X
44					164A17229X	163A16819X
62					164A17239X	163A16829X
78					164A17249X	163A16839X

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

15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A17359X	163A16949X
26					164A17369X	163A16959X
44					164A17379X	163A16969X
62					164A17389X	163A16979X
78					164A17399X	163A16989X

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

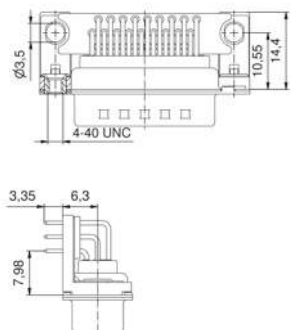
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A17459X	163A17049X
26					164A17469X	163A17059X
44					164A17479X	163A17069X
62					164A17489X	163A17079X
78					164A17499X	163A17089X

D-SUB CONNECTORS High Density

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

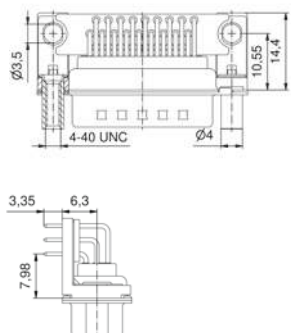
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

Grounding strap, 4-40 UNC threaded insert



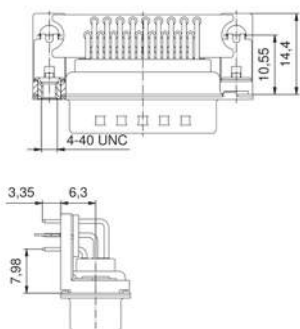
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A18019X	163A17609X
26					164A18029X	163A17619X
44					164A18039X	163A17629X
62					164A18049X	163A17639X

Grounding strap, 4-40 UNC front spacer



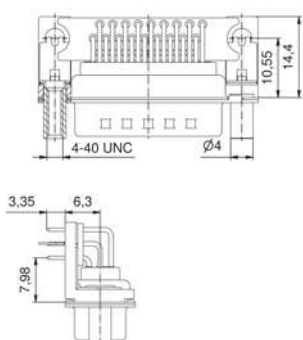
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A18099X	163A17689X
26					164A18109X	163A17699X
44					164A18119X	163A17709X
62					164A18129X	163A17719X

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



15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A20929X	163A20489X
26					164A20939X	163A20499X
44					164A20949X	163A20509X
62					164A20959X	163A20519X

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



15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A21009X	163A20569X
26					164A21019X	163A20579X
44					164A21029X	163A20589X
62					164A21039X	163A20599X

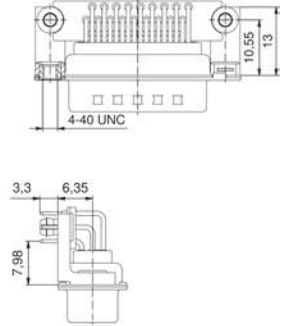
D-SUB CONNECTORS
High Density

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

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

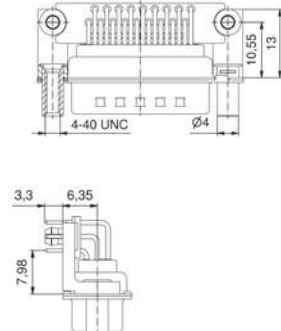
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A18179X	163A17769X
26					164A18189X	163A17779X
44					164A18199X	163A17789X
62					164A18209X	163A17799X
78					164A18629X	163A18219X

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



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

15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A18259X	163A17849X
26					164A18269X	163A17859X
44					164A18279X	163A17869X
62					164A18289X	163A17879X
78					164A18649X	163A18239X



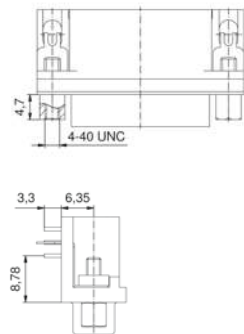
D-SUB CONNECTORS
High Density


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




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

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

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



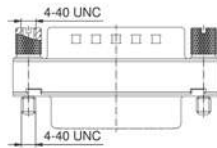
D-SUB CONNECTORS High Density		No. of poles	Working voltage [V]	UL-File	Shell: Steel tin plated On request: • Brass tin plated or stainless steel	
Crimp body (without contacts) For AWG 28-22 crimp contacts					Part No. Socket contact	Part No. Plug contact
Through-hole Ø 3 mm						
	15	60	E202784	164X11949X	163X10169X	
	26			164X11959X	163X10179X	
	44			164X11969X	163X10189X	
	62			164X11979X	163X10199X	
	78			164X11989X	163X10209X	

D-SUB CONNECTORS High Density		Quantity [pcs]	Current rating [A]	Loose contacts	Quality class	Quality class 3 (A) = 50 mating cycles On request: • Quality class 1 (C) = 500 mating cycles
Crimp-contacts, precision machined						Part No.
Female contact, AWG 28-22						
	500	3	✓	3	162A18419X	
Female contact closed entry, AWG 28-22						
	500	3	✓	3	16-000693	
Male contact, AWG 28-22						
	500	3	✓	3	161A18009X	

D-SUB CONNECTORS Standard

Interface adapter, connector saver
Plug connector - socket connector

4-40 UNC threaded lock



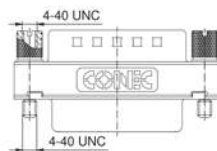
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
09	7.5 (UL) 5 (CSA) VDE	125	E202784	3	163A50009X
15					163A50019X
25					163A50029X
37					163A50039X
50					163A50049X

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

D-SUB CONNECTORS High Density

Interface adapter, connector saver
Plug connector - socket connector

4-40 UNC threaded lock



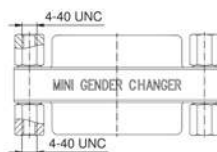
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A03399X
26					164A03919X
44					164A03929X
62					164A03939X
78					DAH5XAAAR04X

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

D-SUB CONNECTORS Standard

Interface adapter, gender changer
Socket connector - socket connector

4-40 UNC threaded lock

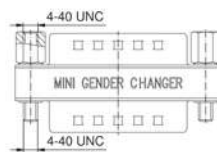


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
09	3	125		3	320X12519X
15					320X12539X
25					320X10559X
37					320X12559X

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

Interface adapter, gender changer
Plug connector - plug connector

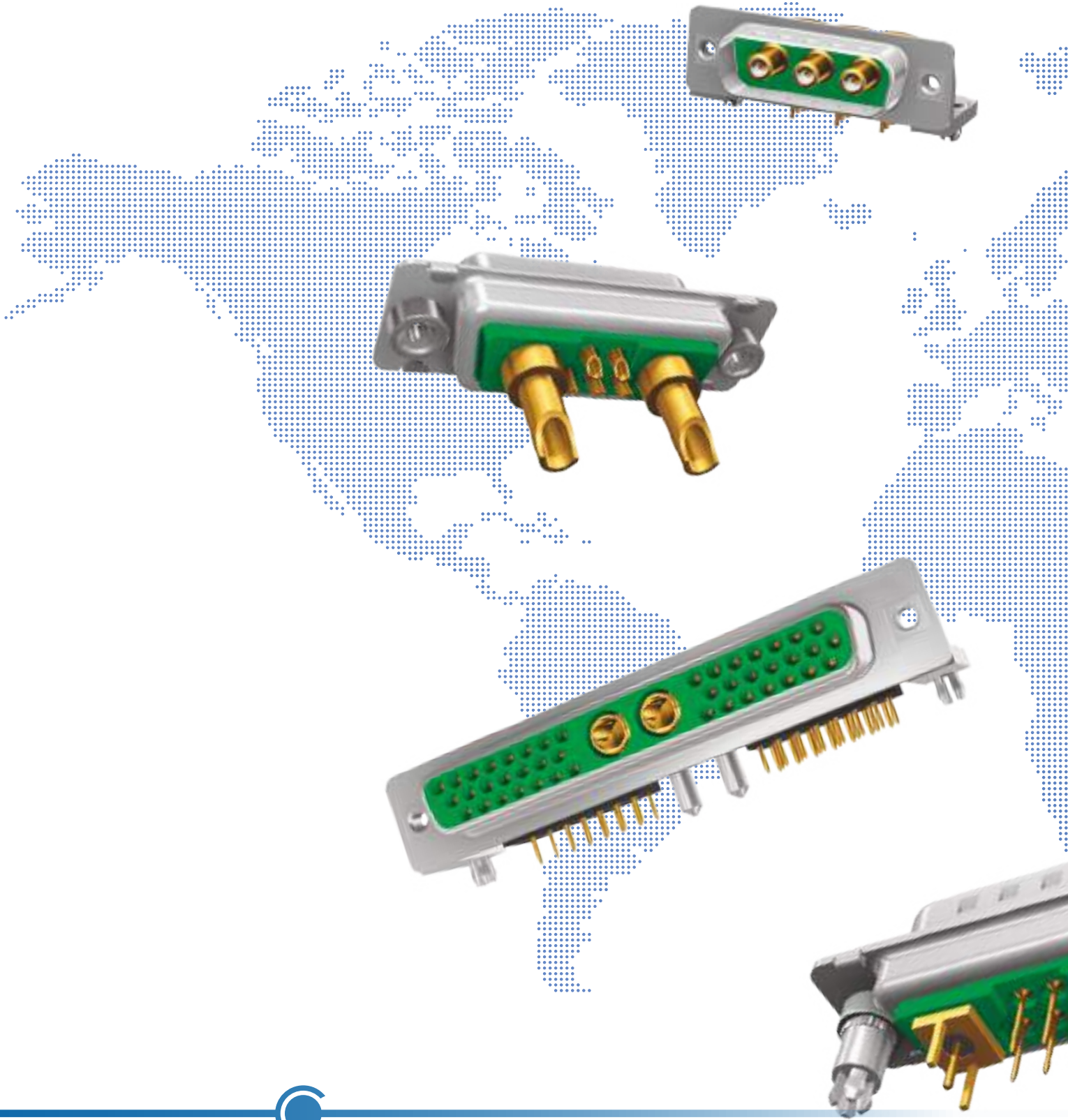
4-40 UNC threaded lock



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

SECTION 2

COMBINATION D-SUB CONNECTORS





COMBINATION D-SUB CONNECTORS

Part Number Creator Standard

3 003W3 S X X 6 1 A 1 0 X

Shell type

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

Shell size and design

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

Contact type

- P = Plug connector
- S = Socket connector

Surface/Quality class for SIGNAL contacts

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

Termination only for SIGNAL contacts

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

Termination for HIGH POWER- or COAXIAL contacts

Quality class 3/Quality class 1

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

Quality class 3/Quality class 1

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

Mounting style

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

OX = Standard

COMBINATION D-SUB CONNECTORS

Part Number Creator High Density

3 H19W1 S C M 4 1 A 1 O X

Shell type

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

Shell size and design

- 2 = 19W1
- 3 = 15W4
- 4 = 45W2 H = High Density

Contact type

- P = Plug connector
- S = Socket connector

Quality class for SIGNAL contacts

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

Termination only for SIGNAL contacts

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

Termination for HIGH POWER- or COAXIAL contacts

Quality class 3/Quality class 1

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

Quality class 3/Quality class 1

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

Quality class 1

- P1 = press fit 30 A
- P2 = press fit 30 A
- P4 = press fit 30 A
- 99 = no high power, coax or crimp contacts loaded

Mounting style

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

- OX = Standard

COMBINATION D-SUB CONNECTORS

Product specification Standard

Basic material	Connector with signal contacts	Coaxial contacts	High power contacts	High voltage contacts
Contact	Copper alloy			
Contact plating	Gold over nickel			
Insulator (Connector) green standard/ black crimp	PBT GF UL 94 V-0			
Insulator (Contacts)		PTFE/PBTP/PI		PTFE
Shell	Steel tin plated (on request brass tin plated or stainless steel)			
Retaining clip	Copper alloy			
Technical Data				
Test voltage	1000 V, 50 Hz, 1 min.	750 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.	3.5 kV, 50 Hz, 1 min.
Working voltage	250 V AC/DC	250 V AC/DC	250 V AC/DC	max. 2.8 kV
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	2 A	10 - 40 A (UL)	1.5 A
Resistance between mated contacts	max. 10 mΩ	max. 2.7 mΩ	max. 1 mΩ	max. 2.7 mΩ
Insulation resistance	≥ 5 GΩ	≥ 10 GΩ	≥ 5 GΩ	≥ 2 x 10 ⁷ MΩ
Characteristic impedance		50/75 Ω		
Frequency range		0-2 GHz		
VSWR-value according MIL-C-39012		≤ 1.2 @ 1.2 GHz ≤ 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			

Technical specifications are subject to change without notice.

COMBINATION D-SUB CONNECTORS

Product specification High Density

Basic material	Connector with signal contacts	Coaxial contacts	High power contacts	High voltage contacts
Contact	Copper alloy			
Contact plating	Gold over nickel			
Insulator (Connector) green standard/ black crimp	PBT GF UL 94 V-0			
Insulator (Contacts)		PTFE/PBTP/PI		PTFE
Shell	Steel tin plated (on request brass tin plated or stainless steel)			
Retaining clip		Copper alloy		
Technical Data				
Test voltage	1000 V, 50 Hz, 1 min.	750 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.	3.5 kV, 50 Hz, 1 min.
Working voltage	60 V AC/DC	250 V AC/DC	250 V AC/DC	max. 2.8 kV
Current rating	3 A (UL, VDE) / 2.5 A (CSA)	2 A	10 - 40 A (UL)	1.5 A
Resistance between mated contacts	max. 10 mΩ	max. 2.7 mΩ	max. 1 mΩ	max. 2.7 mΩ
Insulation resistance	≥ 5 GΩ	≥ 10 GΩ	≥ 5 GΩ	≥ 2 x 10 ⁷ MΩ
Characteristic impedance		50/75 Ω		
Frequency range		0-2 GHz		
VSWR-value according MIL-C-39012		≤ 1,2 @ 1.2 GHz ≤ 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			

Technical specifications are subject to change without notice.

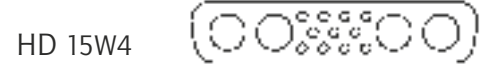
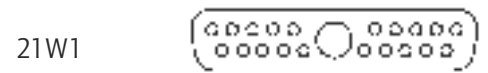
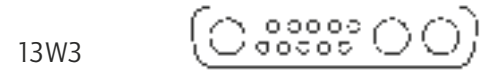
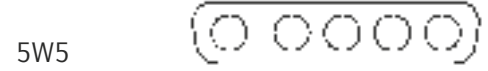
COMBINATION D-SUB CONNECTORS

Contact arrangements Mating side of socket connector

Shell size 1

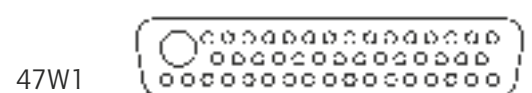
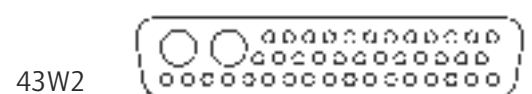
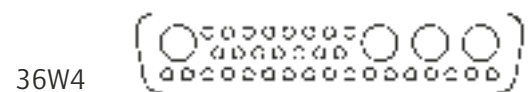
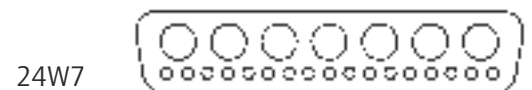
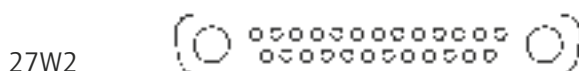
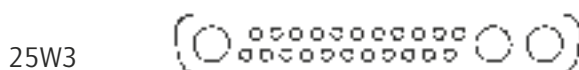
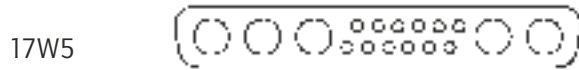
Shell size 2

Shell size 3



Shell size 4

Shell size 5



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

COMBINATION 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	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

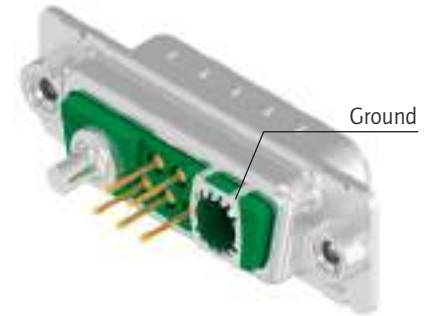
Technical specifications are subject to change without notice.

COMBINATION D-SUB CONNECTORS

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 CONNECTORS 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	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAM99A10X	3005W1PAM99A10X
7W2					3007W2SAM99A10X	3007W2PAM99A10X
9W4					3009W4SAM99A10X	3009W4PAM99A10X
11W1					3011W1SAM99A10X	3011W1PAM99A10X
13W3					3013W3SAM99A10X	3013W3PAM99A10X
13W6					3013W6SAM99A10X	3013W6PAM99A10X
17W2					3017W2SAM99A10X	3017W2PAM99A10X
17W5					3017W5SAM99A10X	3017W5PAM99A10X
21W1					3021W1SAM99A10X	3021W1PAM99A10X
24W7					3024W7SAM99A10X	3024W7PAM99A10X
25W3					3025W3SAM99A10X	3025W3PAM99A10X
27W2					3027W2SAM99A10X	3027W2PAM99A10X
36W4					3036W4SAM99A10X	3036W4PAM99A10X
43W2					3043W2SAM99A10X	3043W2PAM99A10X
47W1					3047W1SAM99A10X	3047W1PAM99A10X
21WA4					321WA4SAM99A10X	321WA4PAM99A10X

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

4-40 UNC threaded insert


No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAM99A30X	3005W1PAM99A30X
7W2					3007W2SAM99A30X	3007W2PAM99A30X
9W4					3009W4SAM99A30X	3009W4PAM99A30X
11W1					3011W1SAM99A30X	3011W1PAM99A30X
13W3					3013W3SAM99A30X	3013W3PAM99A30X
13W6					3013W6SAM99A30X	3013W6PAM99A30X
17W2					3017W2SAM99A30X	3017W2PAM99A30X
17W5					3017W5SAM99A30X	3017W5PAM99A30X
21W1					3021W1SAM99A30X	3021W1PAM99A30X
24W7					3024W7SAM99A30X	3024W7PAM99A30X
25W3					3025W3SAM99A30X	3025W3PAM99A30X
27W2					3027W2SAM99A30X	3027W2PAM99A30X
36W4					3036W4SAM99A30X	3036W4PAM99A30X
43W2					3043W2SAM99A30X	3043W2PAM99A30X
47W1					3047W1SAM99A30X	3047W1PAM99A30X
21WA4					321WA4SAM99A30X	321WA4PAM99A30X

COMBINATION D-SUB CONNECTORS

With signal contacts & high power contacts 20 A

Solder cup
Precision machined contacts, AWG 20

Through-hole Ø 3 mm

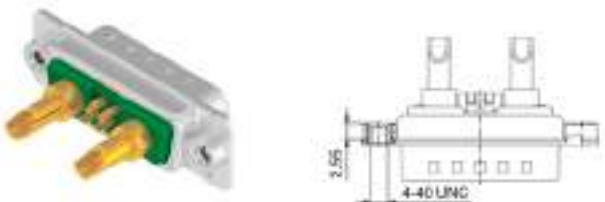
Through-hole Ø 3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAM62A10X	3005W1PAM62A10X	
	7W2					3007W2SAM62A10X	3007W2PAM62A10X	
	9W4					3009W4SAM62A10X	3009W4PAM62A10X	
	11W1					3011W1SAM62A10X	3011W1PAM62A10X	
	13W3					3013W3SAM62A10X	3013W3PAM62A10X	
	13W6					3013W6SAM62A10X	3013W6PAM62A10X	
	17W2					3017W2SAM62A10X	3017W2PAM62A10X	
	17W5					3017W5SAM62A10X	3017W5PAM62A10X	
	21W1					3021W1SAM62A10X	3021W1PAM62A10X	
	24W7					3024W7SAM62A10X	3024W7PAM62A10X	
	25W3					3025W3SAM62A10X	3025W3PAM62A10X	
	27W2					3027W2SAM62A10X	3027W2PAM62A10X	
	36W4					3036W4SAM62A10X	3036W4PAM62A10X	
	43W2					3043W2SAM62A10X	3043W2PAM62A10X	
	47W1					3047W1SAM62A10X	3047W1PAM62A10X	
	21WA4					321WA4SAM62A10X	321WA4PAM62A10X	

For other Power contacts select code from spread sheet

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

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

4-40 UNC threaded insert

4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAM62A30X	3005W1PAM62A30X	
	7W2					3007W2SAM62A30X	3007W2PAM62A30X	
	9W4					3009W4SAM62A30X	3009W4PAM62A30X	
	11W1					3011W1SAM62A30X	3011W1PAM62A30X	
	13W3					3013W3SAM62A30X	3013W3PAM62A30X	
	13W6					3013W6SAM62A30X	3013W6PAM62A30X	
	17W2					3017W2SAM62A30X	3017W2PAM62A30X	
	17W5					3017W5SAM62A30X	3017W5PAM62A30X	
	21W1					3021W1SAM62A30X	3021W1PAM62A30X	
	24W7					3024W7SAM62A30X	3024W7PAM62A30X	
	25W3					3025W3SAM62A30X	3025W3PAM62A30X	
	27W2					3027W2SAM62A30X	3027W2PAM62A30X	
	36W4					3036W4SAM62A30X	3036W4PAM62A30X	
	43W2					3043W2SAM62A30X	3043W2PAM62A30X	
	47W1					3047W1SAM62A30X	3047W1PAM62A30X	
	21WA4					321WA4SAM62A30X	321WA4PAM62A30X	

For other Power contacts select code from spread sheet


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

COMBINATION D-SUB CONNECTORS

With signal contacts & high power contacts 20 A

Solder pin, straight
Precision machined contacts

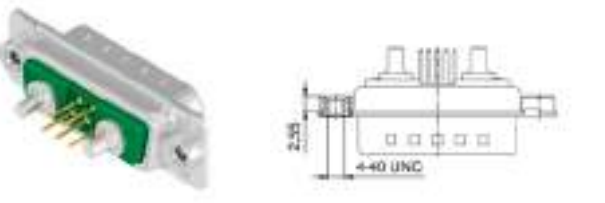
Through-hole Ø 3 mm

Through-hole Ø 3 mm			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAR69A10X	3005W1PAR69A10X		
	7W2					3007W2SAR69A10X	3007W2PAR69A10X		
	9W4					3009W4SAR69A10X	3009W4PAR69A10X		
	11W1					3011W1SAR69A10X	3011W1PAR69A10X		
	13W3					3013W3SAR69A10X	3013W3PAR69A10X		
	13W6					3013W6SAR69A10X	3013W6PAR69A10X		
	17W2					3017W2SAR69A10X	3017W2PAR69A10X		
	17W5					3017W5SAR69A10X	3017W5PAR69A10X		
	21W1					3021W1SAR69A10X	3021W1PAR69A10X		
	24W7					3024W7SAR69A10X	3024W7PAR69A10X		
	25W3					3025W3SAR69A10X	3025W3PAR69A10X		
	27W2					3027W2SAR69A10X	3027W2PAR69A10X		
	36W4					3036W4SAR69A10X	3036W4PAR69A10X		
	43W2					3043W2SAR69A10X	3043W2PAR69A10X		
	47W1					3047W1SAR69A10X	3047W1PAR69A10X		
	21WA4					321WA4SAR69A10X	321WA4PAR69A10X		

For other Power contacts select code from spread sheet

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

4-40 UNC threaded insert

4-40 UNC threaded insert			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAR69A30X	3005W1PAR69A30X		
	7W2					3007W2SAR69A30X	3007W2PAR69A30X		
	9W4					3009W4SAR69A30X	3009W4PAR69A30X		
	11W1					3011W1SAR69A30X	3011W1PAR69A30X		
	13W3					3013W3SAR69A30X	3013W3PAR69A30X		
	13W6					3013W6SAR69A30X	3013W6PAR69A30X		
	17W2					3017W2SAR69A30X	3017W2PAR69A30X		
	17W5					3017W5SAR69A30X	3017W5PAR69A30X		
	21W1					3021W1SAR69A30X	3021W1PAR69A30X		
	24W7					3024W7SAR69A30X	3024W7PAR69A30X		
	25W3					3025W3SAR69A30X	3025W3PAR69A30X		
	27W2					3027W2SAR69A30X	3027W2PAR69A30X		
	36W4					3036W4SAR69A30X	3036W4PAR69A30X		
	43W2					3043W2SAR69A30X	3043W2PAR69A30X		
	47W1					3047W1SAR69A30X	3047W1PAR69A30X		
	21WA4					321WA4SAR69A30X	321WA4PAR69A30X		

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

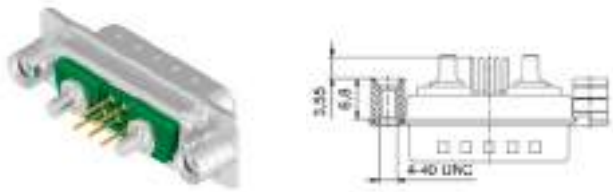
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

COMBINATION D-SUB CONNECTORS

With signal contacts & high power contacts 20 A

Solder pin, straight
Precision machined contacts

4-40 UNC threaded rear spacer

			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																		
								Part No. Socket contact	Part No. Plug contact																		
<p>For other Power contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>68</td> <td>20 A</td> <td>1.95</td> </tr> <tr> <td>69</td> <td>20 A</td> <td>2.60</td> </tr> <tr> <td>70</td> <td>20 A</td> <td>2.85</td> </tr> <tr> <td>71</td> <td>30 A</td> <td>3.18</td> </tr> <tr> <td>72</td> <td>40 A</td> <td>3.75</td> </tr> </tbody> </table>			Code	Current rating	Diameter solder pin	68	20 A	1.95	69	20 A	2.60	70	20 A	2.85	71	30 A	3.18	72	40 A	3.75	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR69A50X	3005W1PAR69A50X
			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																						
			7W2	3007W2SAR69A50X	3007W2PAR69A50X																						
			9W4	3009W4SAR69A50X	3009W4PAR69A50X																						
			11W1	3011W1SAR69A50X	3011W1PAR69A50X																						
			13W3	3013W3SAR69A50X	3013W3PAR69A50X																						
			13W6	3013W6SAR69A50X	3013W6PAR69A50X																						
			17W2	3017W2SAR69A50X	3017W2PAR69A50X																						
			17W5	3017W5SAR69A50X	3017W5PAR69A50X																						
			21W1	3021W1SAR69A50X	3021W1PAR69A50X																						
			24W7	3024W7SAR69A50X	3024W7PAR69A50X																						
25W3	3025W3SAR69A50X	3025W3PAR69A50X																									
27W2	3027W2SAR69A50X	3027W2PAR69A50X																									
36W4	3036W4SAR69A50X	3036W4PAR69A50X																									
43W2	3043W2SAR69A50X	3043W2PAR69A50X																									
47W1	3047W1SAR69A50X	3047W1PAR69A50X																									
21WA4	321WA4SAR69A50X	321WA4PAR69A50X																									


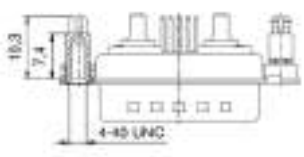
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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


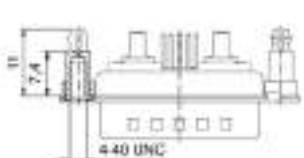
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

4-40 UNC threaded rear spacer clip for PCB 1.6 mm			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAR69E20X	3005W1PAR69E20X		
	7W2					3007W2SAR69E20X	3007W2PAR69E20X		
	9W4					3009W4SAR69E20X	3009W4PAR69E20X		
	11W1					3011W1SAR69E20X	3011W1PAR69E20X		
	13W3					3013W3SAR69E20X	3013W3PAR69E20X		
	13W6					3013W6SAR69E20X	3013W6PAR69E20X		
	17W2					3017W2SAR69E20X	3017W2PAR69E20X		
	17W5					3017W5SAR69E20X	3017W5PAR69E20X		
	21W1					3021W1SAR69E20X	3021W1PAR69E20X		
	24W7					3024W7SAR69E20X	3024W7PAR69E20X		
	25W3					3025W3SAR69E20X	3025W3PAR69E20X		
	27W2					3027W2SAR69E20X	3027W2PAR69E20X		
	36W4					3036W4SAR69E20X	3036W4PAR69E20X		
	43W2					3043W2SAR69E20X	3043W2PAR69E20X		
	47W1					3047W1SAR69E20X	3047W1PAR69E20X		
	21WA4					321WA4SAR69E20X	321WA4PAR69E20X		

For other Power contacts select code from spread sheet

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

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

4-40 UNC threaded rear spacer clip for PCB 2.3 mm			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAR69E40X	3005W1PAR69E40X		
	7W2					3007W2SAR69E40X	3007W2PAR69E40X		
	9W4					3009W4SAR69E40X	3009W4PAR69E40X		
	11W1					3011W1SAR69E40X	3011W1PAR69E40X		
	13W3					3013W3SAR69E40X	3013W3PAR69E40X		
	13W6					3013W6SAR69E40X	3013W6PAR69E40X		
	17W2					3017W2SAR69E40X	3017W2PAR69E40X		
	17W5					3017W5SAR69E40X	3017W5PAR69E40X		
	21W1					3021W1SAR69E40X	3021W1PAR69E40X		
	24W7					3024W7SAR69E40X	3024W7PAR69E40X		
	25W3					3025W3SAR69E40X	3025W3PAR69E40X		
	27W2					3027W2SAR69E40X	3027W2PAR69E40X		
	36W4					3036W4SAR69E40X	3036W4PAR69E40X		
	43W2					3043W2SAR69E40X	3043W2PAR69E40X		
	47W1					3047W1SAR69E40X	3047W1PAR69E40X		
	21WA4					321WA4SAR69E40X	321WA4PAR69E40X		


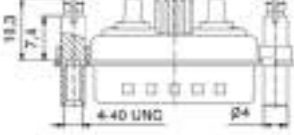
For other Power contacts select code from spread sheet

Code	Current rating	Diameter solder pin
69	20 A	2.60
71	30 A	3.18
72	40 A	3.75

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

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

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


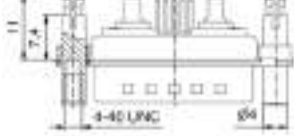
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR69F20X	3005W1PAR69F20X		
	7W2					3007W2SAR69F20X	3007W2PAR69F20X		
	9W4					3009W4SAR69F20X	3009W4PAR69F20X		
	11W1					3011W1SAR69F20X	3011W1PAR69F20X		
	13W3					3013W3SAR69F20X	3013W3PAR69F20X		
	13W6					3013W6SAR69F20X	3013W6PAR69F20X		
	17W2					3017W2SAR69F20X	3017W2PAR69F20X		
	17W5					3017W5SAR69F20X	3017W5PAR69F20X		
	21W1					3021W1SAR69F20X	3021W1PAR69F20X		
	24W7					3024W7SAR69F20X	3024W7PAR69F20X		
	25W3					3025W3SAR69F20X	3025W3PAR69F20X		
	27W2					3027W2SAR69F20X	3027W2PAR69F20X		
	36W4					3036W4SAR69F20X	3036W4PAR69F20X		
	43W2					3043W2SAR69F20X	3043W2PAR69F20X		
	47W1					3047W1SAR69F20X	3047W1PAR69F20X		
	21WA4					321WA4SAR69F20X	321WA4PAR69F20X		

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

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

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

4-40 UNC front, threaded rear spacer clip for PCB 2.3 mm			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR69F40X	3005W1PAR69F40X		
	7W2					3007W2SAR69F40X	3007W2PAR69F40X		
	9W4					3009W4SAR69F40X	3009W4PAR69F40X		
	11W1					3011W1SAR69F40X	3011W1PAR69F40X		
	13W3					3013W3SAR69F40X	3013W3PAR69F40X		
	13W6					3013W6SAR69F40X	3013W6PAR69F40X		
	17W2					3017W2SAR69F40X	3017W2PAR69F40X		
	17W5					3017W5SAR69F40X	3017W5PAR69F40X		
	21W1					3021W1SAR69F40X	3021W1PAR69F40X		
	24W7					3024W7SAR69F40X	3024W7PAR69F40X		
	25W3					3025W3SAR69F40X	3025W3PAR69F40X		
	27W2					3027W2SAR69F40X	3027W2PAR69F40X		
	36W4					3036W4SAR69F40X	3036W4PAR69F40X		
	43W2					3043W2SAR69F40X	3043W2PAR69F40X		
	47W1					3047W1SAR69F40X	3047W1PAR69F40X		
	21WA4					321WA4SAR69F40X	321WA4PAR69F40X		

For other Power contacts select code from spread sheet


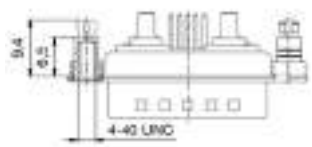
Code	Current rating	Diameter solder pin
69	20 A	2.60
71	30 A	3.18
72	40 A	3.75

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

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

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

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

 			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
				75 (UL) / 5 (CSA, VDE)	250	E228329	3		
	5W1						3005W1SAR69C20X	3005W1PAR69C20X	
	7W2						3007W2SAR69C20X	3007W2PAR69C20X	
	9W4						3009W4SAR69C20X	3009W4PAR69C20X	
	11W1						3011W1SAR69C20X	3011W1PAR69C20X	
	13W3						3013W3SAR69C20X	3013W3PAR69C20X	
	13W6						3013W6SAR69C20X	3013W6PAR69C20X	
	17W2						3017W2SAR69C20X	3017W2PAR69C20X	
	17W5						3017W5SAR69C20X	3017W5PAR69C20X	
	21W1						3021W1SAR69C20X	3021W1PAR69C20X	
	24W7						3024W7SAR69C20X	3024W7PAR69C20X	
	25W3						3025W3SAR69C20X	3025W3PAR69C20X	
	27W2						3027W2SAR69C20X	3027W2PAR69C20X	
	36W4						3036W4SAR69C20X	3036W4PAR69C20X	
	43W2						3043W2SAR69C20X	3043W2PAR69C20X	
	47W1						3047W1SAR69C20X	3047W1PAR69C20X	
	21WA4						321WA4SAR69C20X	321WA4PAR69C20X	

For other Power contacts select code from spread sheet


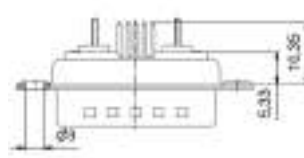
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

COMBINATION D-SUB CONNECTORS

With signal contacts & coaxial contacts 50 Ω

Solder pin, straight
Precision machined contacts

Through-hole Ø 3 mm


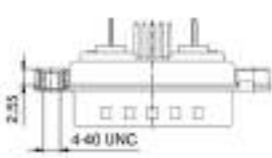
Through-hole Ø 3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR76A10X	3005W1PAR76A10X	
	7W2					3007W2SAR76A10X	3007W2PAR76A10X	
	9W4					3009W4SAR76A10X	3009W4PAR76A10X	
	11W1					3011W1SAR76A10X	3011W1PAR76A10X	
	13W3					3013W3SAR76A10X	3013W3PAR76A10X	
	13W6					3013W6SAR76A10X	3013W6PAR76A10X	
	17W2					3017W2SAR76A10X	3017W2PAR76A10X	
	17W5					3017W5SAR76A10X	3017W5PAR76A10X	
	21W1					3021W1SAR76A10X	3021W1PAR76A10X	
	24W7					3024W7SAR76A10X	3024W7PAR76A10X	
	25W3					3025W3SAR76A10X	3025W3PAR76A10X	
	27W2					3027W2SAR76A10X	3027W2PAR76A10X	
	36W4					3036W4SAR76A10X	3036W4PAR76A10X	
	43W2					3043W2SAR76A10X	3043W2PAR76A10X	
	47W1					3047W1SAR76A10X	3047W1PAR76A10X	
	21WA4					321WA4SAR76A10X	321WA4PAR76A10X	

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

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

4-40 UNC threaded insert

4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR76A30X	3005W1PAR76A30X	
	7W2					3007W2SAR76A30X	3007W2PAR76A30X	
	9W4					3009W4SAR76A30X	3009W4PAR76A30X	
	11W1					3011W1SAR76A30X	3011W1PAR76A30X	
	13W3					3013W3SAR76A30X	3013W3PAR76A30X	
	13W6					3013W6SAR76A30X	3013W6PAR76A30X	
	17W2					3017W2SAR76A30X	3017W2PAR76A30X	
	17W5					3017W5SAR76A30X	3017W5PAR76A30X	
	21W1					3021W1SAR76A30X	3021W1PAR76A30X	
	24W7					3024W7SAR76A30X	3024W7PAR76A30X	
	25W3					3025W3SAR76A30X	3025W3PAR76A30X	
	27W2					3027W2SAR76A30X	3027W2PAR76A30X	
	36W4					3036W4SAR76A30X	3036W4PAR76A30X	
	43W2					3043W2SAR76A30X	3043W2PAR76A30X	
	47W1					3047W1SAR76A30X	3047W1PAR76A30X	
	21WA4					321WA4SAR76A30X	321WA4PAR76A30X	

For other coaxial contacts select code from spread sheet


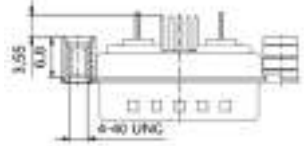
Code	Impedance
76	50 Ω
86	75 Ω

COMBINATION D-SUB CONNECTORS
With signal contacts & coaxial contacts 50 Ω

Solder pin, straight
Precision machined contacts

4-40 UNC threaded rear spacer

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

 		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
		5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR76A50X	3005W1PAR76A50X
		7W2					3007W2SAR76A50X	3007W2PAR76A50X
		9W4					3009W4SAR76A50X	3009W4PAR76A50X
		11W1					3011W1SAR76A50X	3011W1PAR76A50X
		13W3					3013W3SAR76A50X	3013W3PAR76A50X
		13W6					3013W6SAR76A50X	3013W6PAR76A50X
		17W2					3017W2SAR76A50X	3017W2PAR76A50X
		17W5					3017W5SAR76A50X	3017W5PAR76A50X
		21W1					3021W1SAR76A50X	3021W1PAR76A50X
		24W7					3024W7SAR76A50X	3024W7PAR76A50X
		25W3					3025W3SAR76A50X	3025W3PAR76A50X
		27W2					3027W2SAR76A50X	3027W2PAR76A50X
		36W4					3036W4SAR76A50X	3036W4PAR76A50X
		43W2					3043W2SAR76A50X	3043W2PAR76A50X
		47W1					3047W1SAR76A50X	3047W1PAR76A50X
		21WA4					321WA4SAR76A50X	321WA4PAR76A50X


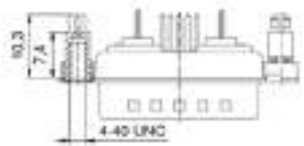
For other coaxial contacts select code from spread sheet	
Code	Impedance
76	50 Ω
86	75 Ω

COMBINATION D-SUB CONNECTORS

With signal contacts & coaxial contacts 50 Ω

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

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


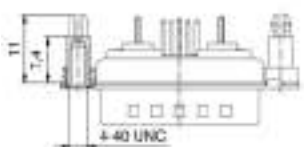
4-40 UNC threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR76E20X	3005W1PAR76E20X	
	7W2					3007W2SAR76E20X	3007W2PAR76E20X	
	9W4					3009W4SAR76E20X	3009W4PAR76E20X	
	11W1					3011W1SAR76E20X	3011W1PAR76E20X	
	13W3					3013W3SAR76E20X	3013W3PAR76E20X	
	13W6					3013W6SAR76E20X	3013W6PAR76E20X	
	17W2					3017W2SAR76E20X	3017W2PAR76E20X	
	17W5					3017W5SAR76E20X	3017W5PAR76E20X	
	21W1					3021W1SAR76E20X	3021W1PAR76E20X	
	24W7					3024W7SAR76E20X	3024W7PAR76E20X	
	25W3					3025W3SAR76E20X	3025W3PAR76E20X	
	27W2					3027W2SAR76E20X	3027W2PAR76E20X	
	36W4					3036W4SAR76E20X	3036W4PAR76E20X	
	43W2					3043W2SAR76E20X	3043W2PAR76E20X	
	47W1					3047W1SAR76E20X	3047W1PAR76E20X	
	21WA4					321WA4SAR76E20X	321WA4PAR76E20X	

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
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 2.3 mm

4-40 UNC threaded rear spacer clip for PCB 2.3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR76E40X	3005W1PAR76E40X	
	7W2					3007W2SAR76E40X	3007W2PAR76E40X	
	9W4					3009W4SAR76E40X	3009W4PAR76E40X	
	11W1					3011W1SAR76E40X	3011W1PAR76E40X	
	13W3					3013W3SAR76E40X	3013W3PAR76E40X	
	13W6					3013W6SAR76E40X	3013W6PAR76E40X	
	17W2					3017W2SAR76E40X	3017W2PAR76E40X	
	17W5					3017W5SAR76E40X	3017W5PAR76E40X	
	21W1					3021W1SAR76E40X	3021W1PAR76E40X	
	24W7					3024W7SAR76E40X	3024W7PAR76E40X	
	25W3					3025W3SAR76E40X	3025W3PAR76E40X	
	27W2					3027W2SAR76E40X	3027W2PAR76E40X	
	36W4					3036W4SAR76E40X	3036W4PAR76E40X	
	43W2					3043W2SAR76E40X	3043W2PAR76E40X	
	47W1					3047W1SAR76E40X	3047W1PAR76E40X	
	21WA4					321WA4SAR76E40X	321WA4PAR76E40X	


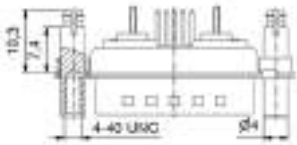
For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

COMBINATION D-SUB CONNECTORS
With signal contacts & coaxial contacts 50 Ω

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

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


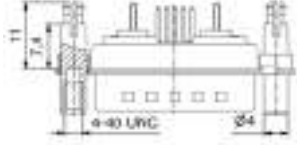
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAR76F20X	3005W1PAR76F20X	
	7W2					3007W2SAR76F20X	3007W2PAR76F20X	
	9W4					3009W4SAR76F20X	3009W4PAR76F20X	
	11W1					3011W1SAR76F20X	3011W1PAR76F20X	
	13W3					3013W3SAR76F20X	3013W3PAR76F20X	
	13W6					3013W6SAR76F20X	3013W6PAR76F20X	
	17W2					3017W2SAR76F20X	3017W2PAR76F20X	
	17W5					3017W5SAR76F20X	3017W5PAR76F20X	
	21W1					3021W1SAR76F20X	3021W1PAR76F20X	
	24W7					3024W7SAR76F20X	3024W7PAR76F20X	
	25W3					3025W3SAR76F20X	3025W3PAR76F20X	
	27W2					3027W2SAR76F20X	3027W2PAR76F20X	
	36W4					3036W4SAR76F20X	3036W4PAR76F20X	
	43W2					3043W2SAR76F20X	3043W2PAR76F20X	
	47W1					3047W1SAR76F20X	3047W1PAR76F20X	
	21WA4					321WA4SAR76F20X	321WA4PAR76F20X	

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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

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

4-40 UNC front, threaded rear spacer clip for PCB 2.3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAR76F40X	3005W1PAR76F40X	
	7W2					3007W2SAR76F40X	3007W2PAR76F40X	
	9W4					3009W4SAR76F40X	3009W4PAR76F40X	
	11W1					3011W1SAR76F40X	3011W1PAR76F40X	
	13W3					3013W3SAR76F40X	3013W3PAR76F40X	
	13W6					3013W6SAR76F40X	3013W6PAR76F40X	
	17W2					3017W2SAR76F40X	3017W2PAR76F40X	
	17W5					3017W5SAR76F40X	3017W5PAR76F40X	
	21W1					3021W1SAR76F40X	3021W1PAR76F40X	
	24W7					3024W7SAR76F40X	3024W7PAR76F40X	
	25W3					3025W3SAR76F40X	3025W3PAR76F40X	
	27W2					3027W2SAR76F40X	3027W2PAR76F40X	
	36W4					3036W4SAR76F40X	3036W4PAR76F40X	
	43W2					3043W2SAR76F40X	3043W2PAR76F40X	
	47W1					3047W1SAR76F40X	3047W1PAR76F40X	
	21WA4					321WA4SAR76F40X	321WA4PAR76F40X	


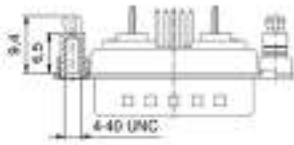
For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

COMBINATION D-SUB CONNECTORS With signal contacts & coaxial contacts 50 Ω

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

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

4-40 UNC threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR76C20X	3005W1PAR76C20X	
	7W2					3007W2SAR76C20X	3007W2PAR76C20X	
	9W4					3009W4SAR76C20X	3009W4PAR76C20X	
	11W1					3011W1SAR76C20X	3011W1PAR76C20X	
	13W3					3013W3SAR76C20X	3013W3PAR76C20X	
	13W6					3013W6SAR76C20X	3013W6PAR76C20X	
	17W2					3017W2SAR76C20X	3017W2PAR76C20X	
	17W5					3017W5SAR76C20X	3017W5PAR76C20X	
	21W1					3021W1SAR76C20X	3021W1PAR76C20X	
	24W7					3024W7SAR76C20X	3024W7PAR76C20X	
	25W3					3025W3SAR76C20X	3025W3PAR76C20X	
	27W2					3027W2SAR76C20X	3027W2PAR76C20X	
	36W4					3036W4SAR76C20X	3036W4PAR76C20X	
	43W2					3043W2SAR76C20X	3043W2PAR76C20X	
	47W1					3047W1SAR76C20X	3047W1PAR76C20X	
	21WA4					321WA4SAR76C20X	321WA4PAR76C20X	

For other coaxial contacts select code from spread sheet


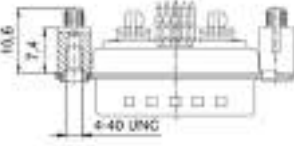
Code	Impedance
76	50 Ω
86	75 Ω

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

COMBINATION D-SUB CONNECTORS With signal contacts & high power contacts 30 A

Press-fit, straight
Precision machined contacts

4-40 UNC rear press-fit spacer

4-40 UNC rear press-fit spacer		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAPP1 W20X	3005W1PAPP1 W20X	
	7W2					3007W2SAPP1 W20X	3007W2PAPP1 W20X	
	9W4					3009W4SAPP1 W20X	3009W4PAPP1 W20X	
	11W1					3011W1SAPP1 W20X	3011W1PAPP1 W20X	
	13W3					3013W3SAPP1 W20X	3013W3PAPP1 W20X	
	13W6					3013W6SAPP1 W20X	3013W6PAPP1 W20X	
	17W2					3017W2SAPP1 W20X	3017W2PAPP1 W20X	
	17W5					3017W5SAPP1 W20X	3017W5PAPP1 W20X	
	21W1					3021W1SAPP1 W20X	3021W1PAPP1 W20X	
	24W7					3024W7SAPP1 W20X	3024W7PAPP1 W20X	
	25W3					3025W3SAPP1 W20X	3025W3PAPP1 W20X	
	27W2					3027W2SAPP1 W20X	3027W2PAPP1 W20X	
	36W4					3036W4SAPP1 W20X	3036W4PAPP1 W20X	
	43W2					3043W2SAPP1 W20X	3043W2PAPP1 W20X	
	47W1					3047W1SAPP1 W20X	3047W1PAPP1 W20X	
	21WA4					321WA4SAPP1 W20X	321WA4PAPP1 W20X	

For other Power contacts select code from spread sheet

Code	Current rating	Hole diameter PCB
P1	30 A	3.11
P2	30 A	3.25
P4	30 A	3.20


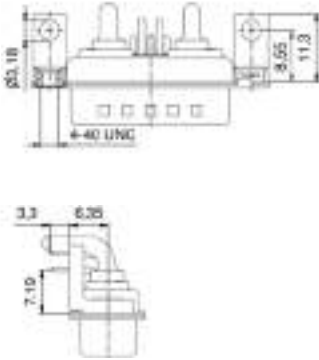
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

COMBINATION D-SUB CONNECTORS


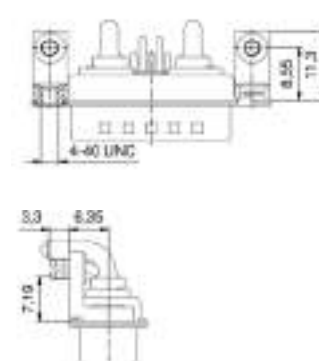
With signal contacts & high power contacts 20 A

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

4-40 UNC threaded insert

 				No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact																																				
<p>For other Power contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Shellsize</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr><td>59</td><td>1-4</td><td>15 A</td><td>1.90</td></tr> <tr><td>73</td><td>1-4</td><td>20 A</td><td>2.85</td></tr> <tr><td>74</td><td>1-4</td><td>30 A</td><td>3.20</td></tr> <tr><td>75</td><td>1-4</td><td>40 A</td><td>3.75</td></tr> <tr><td>81</td><td>5</td><td>20 A</td><td>2.85</td></tr> <tr><td>82</td><td>5</td><td>30 A</td><td>3.20</td></tr> <tr><td>85</td><td>5</td><td>30 A</td><td>3.20</td></tr> <tr><td>77</td><td>5</td><td>40 A</td><td>3.75</td></tr> </tbody> </table>				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	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAT73N20X
				Code	Shellsize	Current rating	Diameter solder pin																																						
				59	1-4	15 A	1.90																																						
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				77	5	40 A	3.75																																						
				7W2	3007W2SAT73N20X																																								
				9W4	3009W4SAT73N20X																																								
				11W1	3011W1SAT73N20X																																								
				13W3	3013W3SAT73N20X																																								
				13W6	3013W6SAT73N20X																																								
				17W2	3017W2SAT73N20X																																								
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21W1	3021W1SAT73N20X																																												
24W7	3024W7SAT81N20X																																												
25W3	3025W3SAT73N20X																																												
27W2	3027W2SAT73N20X																																												
36W4	3036W4SAT81N20X																																												
43W2	3043W2SAT81N20X																																												
47W1	3047W1SAT81N20X																																												
21WA4	321WA4SAT73N20X																																												

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


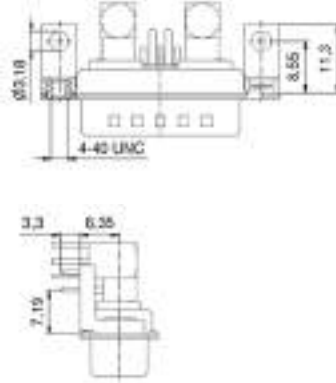
 				No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact																																				
<p>For other Power contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Shellsize</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr><td>59</td><td>1-4</td><td>15 A</td><td>1.90</td></tr> <tr><td>73</td><td>1-4</td><td>20 A</td><td>2.85</td></tr> <tr><td>74</td><td>1-4</td><td>30 A</td><td>3.20</td></tr> <tr><td>75</td><td>1-4</td><td>40 A</td><td>3.75</td></tr> <tr><td>81</td><td>5</td><td>20 A</td><td>2.85</td></tr> <tr><td>82</td><td>5</td><td>30 A</td><td>3.20</td></tr> <tr><td>85</td><td>5</td><td>30 A</td><td>3.20</td></tr> <tr><td>77</td><td>5</td><td>40 A</td><td>3.75</td></tr> </tbody> </table>				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	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAT73N40X
				Code	Shellsize	Current rating	Diameter solder pin																																						
				59	1-4	15 A	1.90																																						
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				77	5	40 A	3.75																																						
				7W2	3007W2SAT73N40X																																								
				9W4	3009W4SAT73N40X																																								
				11W1	3011W1SAT73N40X																																								
				13W3	3013W3SAT73N40X																																								
				13W6	3013W6SAT73N40X																																								
				17W2	3017W2SAT73N40X																																								
17W5	3017W5SAT73N40X																																												
21W1	3021W1SAT73N40X																																												
24W7	3024W7SAT81N40X																																												
25W3	3025W3SAT73N40X																																												
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36W4	3036W4SAT81N40X																																												
43W2	3043W2SAT81N40X																																												
47W1	3047W1SAT81N40X																																												
21WA4	321WA4SAT73N40X																																												

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

COMBINATION D-SUB CONNECTORS
With signal contacts & coaxial contacts 50 Ω

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


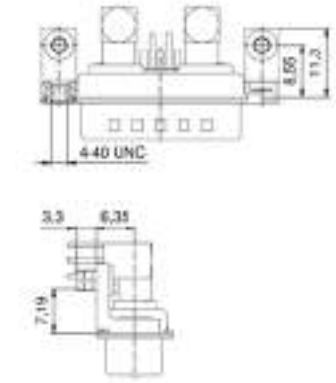
4-40 UNC threaded insert

 			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
								Part No. Socket contact
			5W1	75 (UI) / 5 (CSA, VDE)	250	E228329	3	3005W1SAT78N20X
			7W2					3007W2SAT78N20X
			9W4					3009W4SAT78N20X
			11W1					3011W1SAT78N20X
			13W3					3013W3SAT78N20X
			13W6					3013W6SAT78N20X
			17W2					3017W2SAT78N20X
			17W5					3017W5SAT78N20X
			21W1					3021W1SAT78N20X
			24W7					3024W7SAT79N20X
			25W3					3025W3SAT78N20X
			27W2					3027W2SAT78N20X
			36W4					3036W4SAT79N20X
			43W2					3043W2SAT79N20X
			47W1					3047W1SAT79N20X
			21WA4					321WA4SAT78N20X

For other coaxial contacts select code from spread sheet

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

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

 			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
								Part No. Socket contact
			5W1	75 (UI) / 5 (CSA, VDE)	250	E228329	3	3005W1SAT78N40X
			7W2					3007W2SAT78N40X
			9W4					3009W4SAT78N40X
			11W1					3011W1SAT78N40X
			13W3					3013W3SAT78N40X
			13W6					3013W6SAT78N40X
			17W2					3017W2SAT78N40X
			17W5					3017W5SAT78N40X
			21W1					3021W1SAT78N40X
			24W7					3024W7SAT79N40X
			25W3					3025W3SAT78N40X
			27W2					3027W2SAT78N40X
			36W4					3036W4SAT79N40X
			43W2					3043W2SAT79N40X
			47W1					3047W1SAT79N40X
			21WA4					321WA4SAT78N40X

For other coaxial contacts select code from spread sheet

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


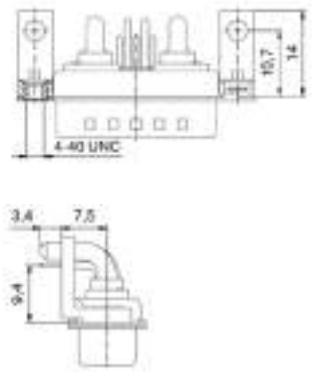
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

COMBINATION D-SUB CONNECTORS

With signal contacts & high power contacts 20 A

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


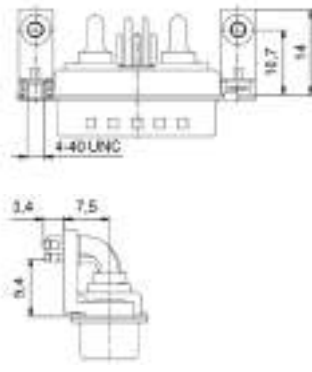
4-40 UNC threaded insert

4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAU73G20X	
	7W2					3007W2SAU73G20X	
	9W4					3009W4SAU73G20X	
	11W1					3011W1SAU73G20X	
	13W3					3013W3SAU73G20X	
	13W6					3013W6SAU73G20X	
	17W2					3017W2SAU73G20X	
	17W5					3017W5SAU73G20X	
	21W1					3021W1SAU73G20X	
	24W7					3024W7SAU81G20X	
	25W3					3025W3SAU73G20X	
	27W2					3027W2SAU73G20X	
	36W4					3036W4SAU81G20X	
	43W2					3043W2SAU81G20X	
	47W1					3047W1SAU81G20X	
	21WA4					321WA4SAU73G20X	

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

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

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


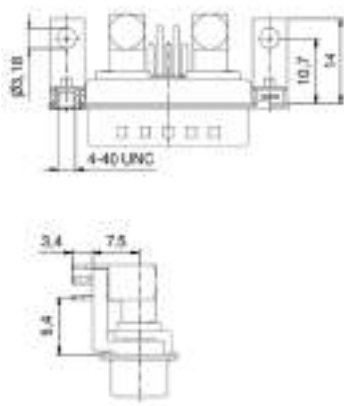
Clip for PCB 1.6 mm, 4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAU73G40X	
	7W2					3007W2SAU73G40X	
	9W4					3009W4SAU73G40X	
	11W1					3011W1SAU73G40X	
	13W3					3013W3SAU73G40X	
	13W6					3013W6SAU73G40X	
	17W2					3017W2SAU73G40X	
	17W5					3017W5SAU73G40X	
	21W1					3021W1SAU73G40X	
	24W7					3024W7SAU81G40X	
	25W3					3025W3SAU73G40X	
	27W2					3027W2SAU73G40X	
	36W4					3036W4SAU81G40X	
	43W2					3043W2SAU81G40X	
	47W1					3047W1SAU81G40X	
	21WA4					321WA4SAU73G40X	

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

COMBINATION D-SUB CONNECTORS
With signal contacts & coaxial contacts 50 Ω

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

4-40 UNC threaded insert


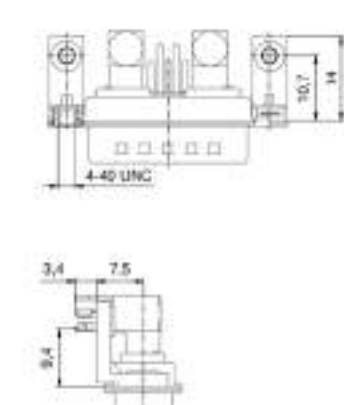
4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAU78G20X	
	7W2					3007W2SAU78G20X	
	9W4					3009W4SAU78G20X	
	11W1					3011W1SAU78G20X	
	13W3					3013W3SAU78G20X	
	13W6					3013W6SAU78G20X	
	17W2					3017W2SAU78G20X	
	17W5					3017W5SAU78G20X	
	21W1					3021W1SAU78G20X	
	24W7					3024W7SAU79G20X	
	25W3					3025W3SAU78G20X	
	27W2					3027W2SAU78G20X	
	36W4					3036W4SAU79G20X	
	43W2					3043W2SAU79G20X	
	47W1					3047W1SAU79G20X	
	21WA4					321WA4SAU78G20X	

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

For other coaxial contacts select code from spread sheet

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

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

Clip for PCB 1.6 mm, 4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAU78G40X	
	7W2					3007W2SAU78G40X	
	9W4					3009W4SAU78G40X	
	11W1					3011W1SAU78G40X	
	13W3					3013W3SAU78G40X	
	13W6					3013W6SAU78G40X	
	17W2					3017W2SAU78G40X	
	17W5					3017W5SAU78G40X	
	21W1					3021W1SAU78G40X	
	24W7					3024W7SAU79G40X	
	25W3					3025W3SAU78G40X	
	27W2					3027W2SAU78G40X	
	36W4					3036W4SAU79G40X	
	43W2					3043W2SAU79G40X	
	47W1					3047W1SAU79G40X	
	21WA4					321WA4SAU78G40X	

For other coaxial contacts select code from spread sheet

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

COMBINATION D-SUB CONNECTORS HIGH DENSITY
With signal contacts & high power contacts 20 A

Solder cup
Precision machined contacts, AWG 22

Through-hole Ø 3 mm

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

No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAM62A10X	3H15W4PAM62A10X
19W1				3H19W1SAM62A10X	3H19W1PAM62A10X
45W2				3H45W2SAM62A10X	3H45W2PAM62A10X



For other Power contacts select code from spread sheet

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

4-40 UNC threaded insert

15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAM62A30X	3H15W4PAM62A30X
19W1				3H19W1SAM62A30X	3H19W1PAM62A30X
45W2				3H45W2SAM62A30X	3H45W2PAM62A30X




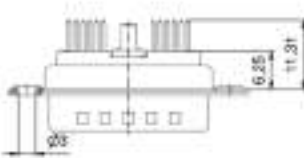
For other Power contacts select code from spread sheet

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

COMBINATION D-SUB CONNECTORS HIGH DENSITY With signal contacts & high power contacts 20 A


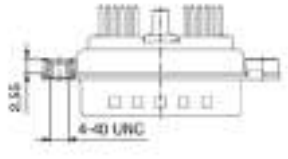
Solder pin, straight
Precision machined contacts

Through-hole Ø 3 mm


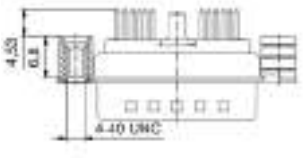
Through-hole Ø 3 mm			No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact																			
  <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr><td>68</td><td>20 A</td><td>1.95</td></tr> <tr><td>69</td><td>20 A</td><td>2.60</td></tr> <tr><td>70</td><td>20 A</td><td>2.85</td></tr> <tr><td>71</td><td>30 A</td><td>3.18</td></tr> <tr><td>72</td><td>40 A</td><td>3.75</td></tr> </tbody> </table>	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	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69A10X	3H15W4PAR69A10X
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71	30 A	3.18																									
72	40 A	3.75																									
19W1	3H19W1SAR69A10X	3H19W1PAR69A10X																									
45W2	3H45W2SAR69A10X	3H45W2PAR69A10X																									

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

4-40 UNC threaded insert

4-40 UNC threaded insert			No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact																			
  <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr><td>68</td><td>20 A</td><td>1.95</td></tr> <tr><td>69</td><td>20 A</td><td>2.60</td></tr> <tr><td>70</td><td>20 A</td><td>2.85</td></tr> <tr><td>71</td><td>30 A</td><td>3.18</td></tr> <tr><td>72</td><td>40 A</td><td>3.75</td></tr> </tbody> </table>	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	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69A30X	3H15W4PAR69A30X
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19W1	3H19W1SAR69A30X	3H19W1PAR69A30X																									
45W2	3H45W2SAR69A30X	3H45W2PAR69A30X																									

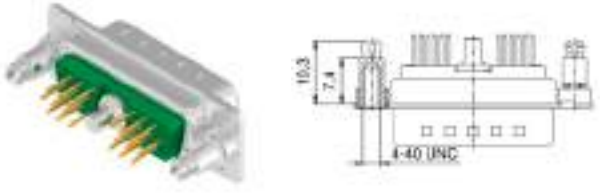
4-40 UNC threaded rear spacer

4-40 UNC threaded rear spacer			No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact																			
  <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr><td>68</td><td>20 A</td><td>1.95</td></tr> <tr><td>69</td><td>20 A</td><td>2.60</td></tr> <tr><td>70</td><td>20 A</td><td>2.85</td></tr> <tr><td>71</td><td>30 A</td><td>3.18</td></tr> <tr><td>72</td><td>40 A</td><td>3.75</td></tr> </tbody> </table>	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	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69A50X	3H15W4PAR69A50X
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19W1	3H19W1SAR69A50X	3H19W1PAR69A50X																									
45W2	3H45W2SAR69A50X	3H45W2PAR69A50X																									

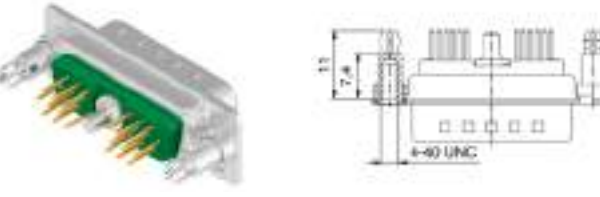
COMBINATION D-SUB CONNECTORS HIGH DENSITY With signal contacts & high power contacts 20 A

Solder pin, straight
Precision machined contacts

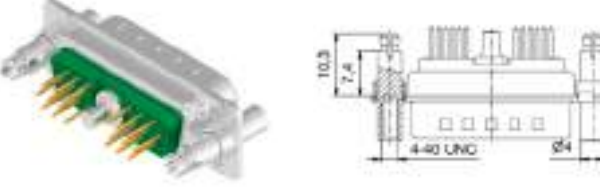
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

4-40 UNC threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact																	
	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69E20X	3H15W4PAR69E20X																		
	19W1				3H19W1SAR69E20X	3H19W1PAR69E20X																		
	45W2				3H45W2SAR69E20X	3H45W2PAR69E20X																		
<p>For other Power contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr><td>68</td><td>20 A</td><td>1.95</td></tr> <tr><td>69</td><td>20 A</td><td>2.60</td></tr> <tr><td>70</td><td>20 A</td><td>2.85</td></tr> <tr><td>71</td><td>30 A</td><td>3.18</td></tr> <tr><td>72</td><td>40 A</td><td>3.75</td></tr> </tbody> </table>		Code	Current rating	Diameter solder pin	68	20 A	1.95	69	20 A	2.60	70	20 A	2.85	71	30 A	3.18	72	40 A	3.75					
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71	30 A	3.18																						
72	40 A	3.75																						

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

4-40 UNC threaded rear spacer clip for PCB 2.3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact											
	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69E40X	3H15W4PAR69E40X												
	19W1				3H19W1SAR69E40X	3H19W1PAR69E40X												
	45W2				3H45W2SAR69E40X	3H45W2PAR69E40X												
<p>For other Power contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr><td>69</td><td>20 A</td><td>2,60</td></tr> <tr><td>71</td><td>30 A</td><td>3,18</td></tr> <tr><td>72</td><td>40 A</td><td>3,75</td></tr> </tbody> </table>		Code	Current rating	Diameter solder pin	69	20 A	2,60	71	30 A	3,18	72	40 A	3,75					
Code	Current rating	Diameter solder pin																
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71	30 A	3,18																
72	40 A	3,75																

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

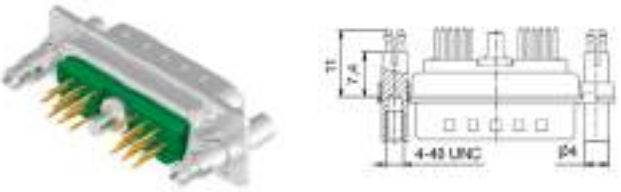
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact																	
	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69F20X	3H15W4PAR69F20X																		
	19W1				3H19W1SAR69F20X	3H19W1PAR69F20X																		
	45W2				3H45W2SAR69F20X	3H45W2PAR69F20X																		
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71	30 A	3.18																						
72	40 A	3.75																						

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

COMBINATION D-SUB CONNECTORS HIGH DENSITY With signal contacts & high power contacts 20 A

Solder pin, straight
Precision machined contacts

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

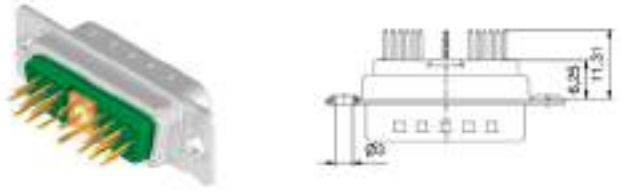
		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact											
For other Power contacts select code from spread sheet <table border="1"> <thead> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>69</td> <td>20 A</td> <td>2,60</td> </tr> <tr> <td>71</td> <td>30 A</td> <td>3,18</td> </tr> <tr> <td>72</td> <td>40 A</td> <td>3,75</td> </tr> </tbody> </table>	Code	Current rating	Diameter solder pin	69	20 A	2,60	71	30 A	3,18	72	40 A	3,75	15W4	3 (UL, VDE) / 2,5 (CSA)	60	3	3H15W4SAR69F40X	3H15W4PAR69F40X
	Code	Current rating	Diameter solder pin															
	69	20 A	2,60															
71	30 A	3,18																
72	40 A	3,75																
19W1	3H19W1SAR69F40X	3H19W1PAR69F40X																
45W2	3H45W2SAR69F40X	3H45W2PAR69F40X																

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

COMBINATION D-SUB CONNECTORS HIGH DENSITY With signal contacts & coaxial contacts 50 Ω

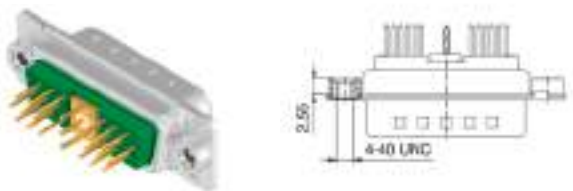
Solder pin, straight
Precision machined contacts

Through-hole Ø 3 mm

		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact					
For other coaxial contacts select code from spread sheet <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>76</td> <td>50 Ω</td> </tr> <tr> <td>86</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	76	50 Ω	86	75 Ω	15W4	3 (UL, VDE) / 2,5 (CSA)	60	3	3H15W4SAR76A10X	3H15W4PAR76A10X
	Code	Impedance										
	76	50 Ω										
86	75 Ω											
19W1	3H19W1SAR76A10X	3H19W1PAR76A10X										
45W2	3H45W2SAR76A10X	3H45W2PAR76A10X										

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

4-40 UNC threaded insert

		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact					
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	Code	Impedance										
	76	50 Ω										
86	75 Ω											
19W1	3H19W1SAR76A30X	3H19W1PAR76A30X										
45W2	3H45W2SAR76A30X	3H45W2PAR76A30X										

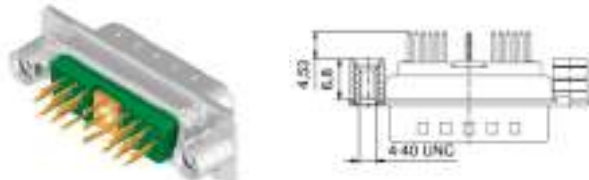
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

COMBINATION D-SUB CONNECTORS HIGH DENSITY
With signal contacts & coaxial contacts 50 Ω

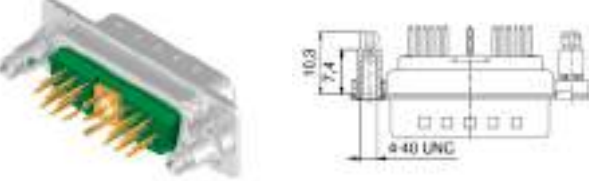
Solder pin, straight
Precision machined contacts

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

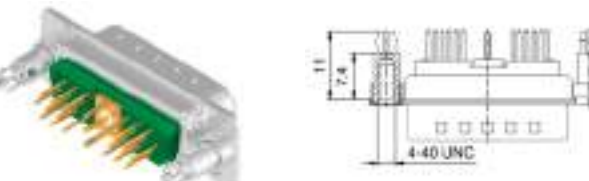
4-40 UNC threaded rear spacer

4-40 UNC threaded rear spacer		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact					
 <p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>76</td> <td>50 Ω</td> </tr> <tr> <td>86</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	76	50 Ω	86	75 Ω	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR76A50X	3H15W4PAR76A50X
	Code	Impedance										
	76	50 Ω										
86	75 Ω											
19W1	3H19W1SAR76A50X	3H19W1PAR76A50X										
45W2	3H45W2SAR76A50X	3H45W2PAR76A50X										

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

4-40 UNC threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact					
 <p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>76</td> <td>50 Ω</td> </tr> <tr> <td>86</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	76	50 Ω	86	75 Ω	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR76E20X	3H15W4PAR76E20X
	Code	Impedance										
	76	50 Ω										
86	75 Ω											
19W1	3H19W1SAR76E20X	3H19W1PAR76E20X										
45W2	3H45W2SAR76E20X	3H45W2PAR76E20X										

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

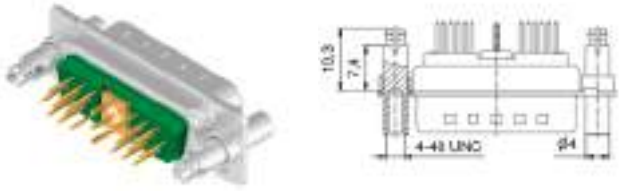
4-40 UNC threaded rear spacer clip for PCB 2.3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact					
 <p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>76</td> <td>50 Ω</td> </tr> <tr> <td>86</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	76	50 Ω	86	75 Ω	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR76E40X	3H15W4PAR76E40X
	Code	Impedance										
	76	50 Ω										
86	75 Ω											
19W1	3H19W1SAR76E40X	3H19W1PAR76E40X										
45W2	3H45W2SAR76E40X	3H45W2PAR76E40X										

COMBINATION D-SUB CONNECTORS HIGH DENSITY
With signal contacts & coaxial contacts 50 Ω

Solder pin, straight
Precision machined contacts

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

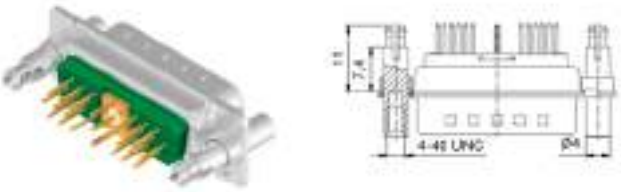
4-40 UNC front, threaded rear spacer clip for PCB 1,6 mm

4-40 UNC front, threaded rear spacer clip for PCB 1,6 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR76F20X	3H15W4PAR76F20X	
	19W1				3H19W1SAR76F20X	3H19W1PAR76F20X	
	45W2				3H45W2SAR76F20X	3H45W2PAR76F20X	

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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

4-40 UNC front, threaded rear spacer clip for PCB 2,3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR76F40X	3H15W4PAR76F40X	
	19W1				3H19W1SAR76F40X	3H19W1PAR76F40X	
	45W2				3H45W2SAR76F40X	3H45W2PAR76F40X	


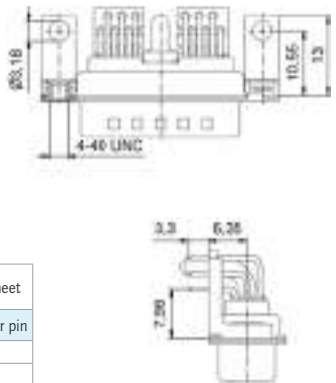
For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω


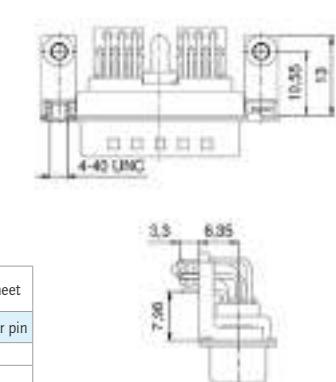
COMBINATION D-SUB CONNECTORS HIGH DENSITY
With signal contacts & high power contacts 20 A

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

4-40 UNC threaded insert

 			No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No.																
							Socket contact	Plug contact															
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			Code	Current rating	Diameter solder pin																		
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19W1	3H19W1SAT73G60X	3H19W1PAT73G60X																					
45W2	3H45W2SAT73G60X	3H45W2PAT73G60X																					

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

 			No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No.																
							Socket contact	Plug contact															
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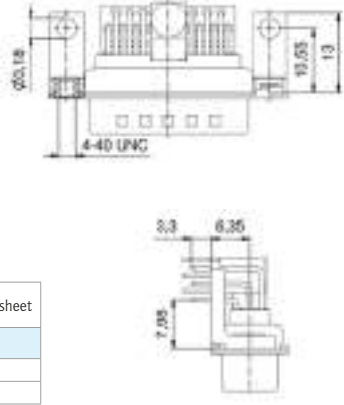
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

COMBINATION D-SUB CONNECTORS HIGH DENSITY
With signal contacts & coaxial contacts 50 Ω


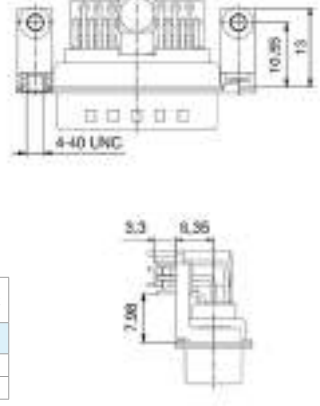
Solder pin, angled, 3.50"/7.98 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert

4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact							
  <table border="1"> <tr> <td colspan="2">For other coaxial contacts select code from spread sheet</td> </tr> <tr> <th>Code</th> <th>Impedance</th> </tr> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </table>	For other coaxial contacts select code from spread sheet		Code	Impedance	78	50 Ω	88	75 Ω	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAT78G60X	3H15W4PAT78G60X
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19W1	3H19W1SAT78G60X	3H19W1PAT78G60X												
45W2	3H45W2SAT78G60X	3H45W2PAT78G60X												

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


Clip for PCB 1.6 mm, 4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact							
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COMBINATION D-SUB CONNECTORS Without contacts


For straight high power, coaxial or
High voltage contacts

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

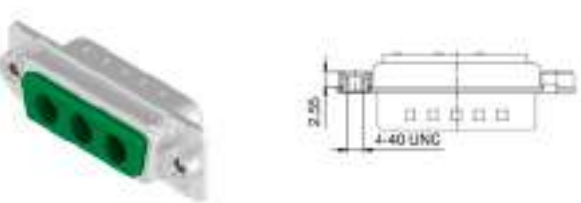
Through-hole Ø 3 mm

	No. of poles	UL-File	Part No. Socket contact	Part No. Plug contact
	3W3		E228329	3003W3SXX99A10X
5W5	E228329	3005W5SXX99A10X	3005W5PXX99A10X	
8W8	E228329	3008W8SXX99A10X	3008W8PXX99A10X	

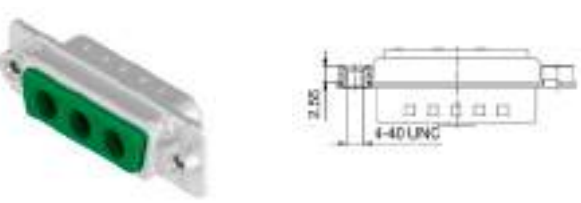
Through-hole Ø 3 mm, coded version

	No. of poles	UL-File	Part No. Socket contact	Part No. Plug contact
	2W2C		E228329	302W2CSXX99A10X
3W3C	E228329	303W3CSXX99A10X	303W3CPXX99A10X	

4-40 UNC threaded insert

	No. of poles	UL-File	Part No. Socket contact	Part No. Plug contact
	3W3		E228329	3003W3SXX99A30X
5W5	E228329	3005W5SXX99A30X	3005W5PXX99A30X	
8W8	E228329	3008W8SXX99A30X	3008W8PXX99A30X	


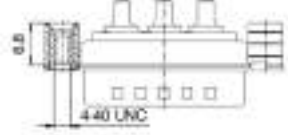
4-40 UNC threaded insert, coded version

	No. of poles	UL-File	Part No. Socket contact	Part No. Plug contact
	2W2C		E228329	302W2CSXX99A30X
3W3C	E228329	303W3CSXX99A30X	303W3CPXX99A30X	


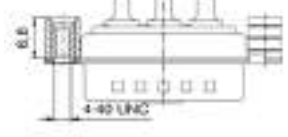
COMBINATION D-SUB CONNECTORS With high power contacts 20 A

Solder pin, straight


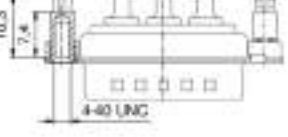
4-40 UNC threaded rear spacer

4-40 UNC threaded rear spacer		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																				
  <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>68</td> <td>20 A</td> <td>1.95</td> </tr> <tr> <td>69</td> <td>20 A</td> <td>2.60</td> </tr> <tr> <td>70</td> <td>20 A</td> <td>2.85</td> </tr> <tr> <td>71</td> <td>30 A</td> <td>3.18</td> </tr> <tr> <td>72</td> <td>40 A</td> <td>3.75</td> </tr> </tbody> </table>	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	3W3	E228329	3	3003W3SXX69A50X	3003W3PXX69A50X
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72	40 A	3.75																								
5W5	3005W5SXX69A50X	3005W5PXX69A50X																								
8W8	3008W8SXX69A50X	3008W8PXX69A50X																								

4-40 UNC, threaded rear spacer, coded version

4-40 UNC, threaded rear spacer, coded version		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																				
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3W3C	303W3CSXX69A50X	303W3CPXX69A50X																								

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


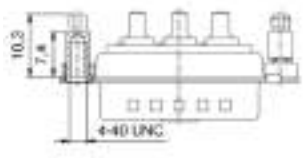
4-40 UNC threaded rear spacer clip for PCB 1.6 mm		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																				
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Shell: Steel tin plated
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On request:
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• M3 thread


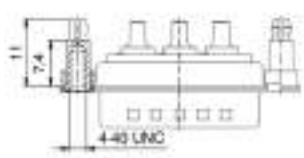
COMBINATION D-SUB CONNECTORS With high power contacts 20 A

Solder pin, straight


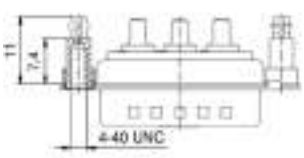
4-40 UNC threaded rear spacer clip for PCB 1.6 mm, coded version

4-40 UNC threaded rear spacer clip for PCB 1.6 mm, coded version		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																		
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3W3C	303W3CSXX69E20X	303W3CPXX69E20X																						

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

4-40 UNC threaded rear spacer clip for PCB 2.3 mm		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact												
 	<p>For other Power contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>69</td> <td>20 A</td> <td>2,60</td> </tr> <tr> <td>71</td> <td>30 A</td> <td>3,18</td> </tr> <tr> <td>72</td> <td>40 A</td> <td>3,75</td> </tr> </tbody> </table>	Code	Current rating	Diameter solder pin	69	20 A	2,60	71	30 A	3,18	72	40 A	3,75	3W3	E228329	3	3003W3SXX69E40X	3003W3PXX69E40X
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72	40 A	3,75																
5W5	3005W5SXX69E40X	3005W5PXX69E40X																
8W8	3008W8SXX69E40X	3008W8PXX69E40X																

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


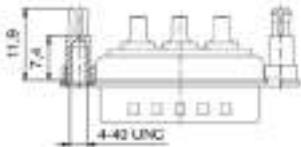
4-40 UNC threaded rear spacer clip for PCB 2.3 mm, coded version		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact												
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Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
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• M3 thread


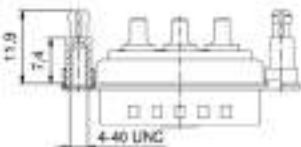
COMBINATION D-SUB CONNECTORS
With high power contacts 20 A

Solder pin, straight

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

 		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact											
<p>For other Power contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>69</td> <td>20 A</td> <td>2,60</td> </tr> <tr> <td>71</td> <td>30 A</td> <td>3,18</td> </tr> <tr> <td>72</td> <td>40 A</td> <td>3,75</td> </tr> </tbody> </table>	Code	Current rating	Diameter solder pin	69	20 A	2,60	71	30 A	3,18	72	40 A	3,75	3W3	E228329	3	3003W3SXX69E60X	3003W3PXX69E60X
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71	30 A	3,18															
72	40 A	3,75															
5W5	3005W5SXX69E60X	3005W5PXX69E60X															
8W8	3008W8SXX69E60X	3008W8PXX69E60X															

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

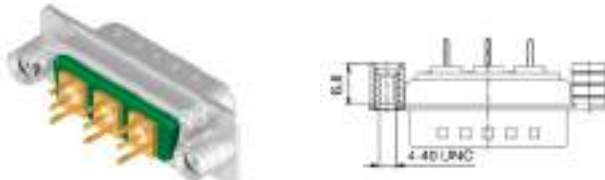
 		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact											
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71	30 A	3,18															
72	40 A	3,75															
3W3C	303W3CSXX69E60X	303W3CPXX69E60X															

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

COMBINATION D-SUB CONNECTORS
With coaxial contacts 50 Ω

Solder pin, straight

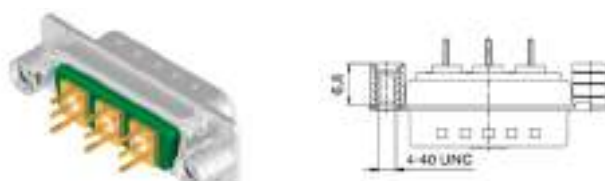
4-40 UNC threaded rear spacer

	3W3	E228329	3	3003W3SXX76A50X	3003W3PXX76A50X
	5W5			3005W5SXX76A50X	3005W5PXX76A50X
	8W8			3008W8SXX76A50X	3008W8PXX76A50X

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

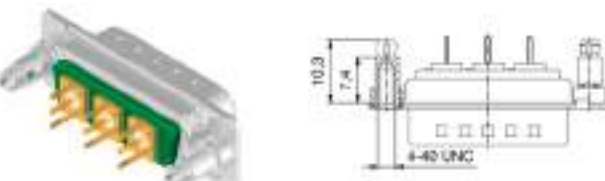
4-40 UNC, threaded rear spacer, coded version

	2W2C	E228329	3	302W2CSXX76A50X	302W2CPXX76A50X
	3W3C			303W3CSXX76A50X	303W3CPXX76A50X

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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

	3W3	E228329	3	3003W3SXX76E20X	3003W3PXX76E20X
	5W5			3005W5SXX76E20X	3005W5PXX76E20X
	8W8			3008W8SXX76E20X	3008W8PXX76E20X

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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


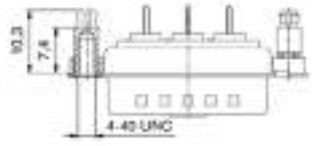
COMBINATION D-SUB CONNECTORS
With coaxial contacts 50 Ω

Solder pin, straight

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

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

No. of poles		UL-File	Quality class	Part No. Socket contact		Part No. Plug contact	
2W2C	E228329			3	302W2CSXX76E20X	302W2CPXX76E20X	
3W3C		303W3CSXX76E20X	303W3CPXX76E20X				


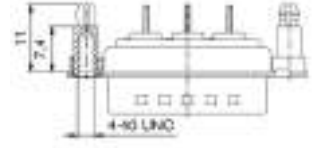



For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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

3W3	E228329	3	3003W3SXX76E40X	3003W3PXX76E40X		
5W5			3005W5SXX76E40X	3005W5PXX76E40X		
8W8			3008W8SXX76E40X	3008W8PXX76E40X		


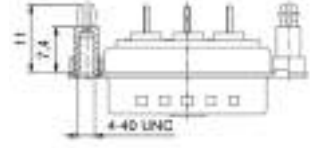



For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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

2W2C	E228329	3	302W2CSXX76E40X	302W2CPXX76E40X		
3W3C			303W3CSXX76E40X	303W3CPXX76E40X		

For other coaxial contacts select code from spread sheet


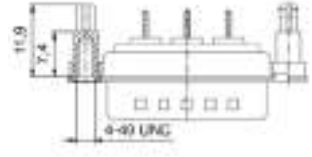
Code	Impedance
76	50 Ω
86	75 Ω

COMBINATION D-SUB CONNECTORS
With coaxial contacts 50 Ω

Solder pin, straight

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

No. of poles		UL-File	Quality class	Part No. Socket contact		Part No. Plug contact	
3W3				E228329	3	3003W3SXX76E60X	
5W5		3005W5SXX76E60X				3005W5PXX76E60X	
8W8		3008W8SXX76E60X				3008W8PXX76E60X	


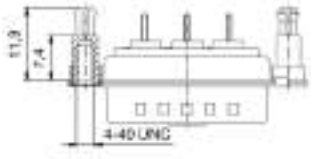



For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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

2W2C		E228329	3	302W2CSXX76E60X		302W2CPXX76E60X	
3W3C				303W3CSXX76E60X		303W3CPXX76E60X	

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

COMBINATION D-SUB CONNECTORS With high power contacts 20 A

Solder pin, angled
Short metal bracket

4-40 UNC threaded insert

No. of poles		UL-File	Quality class	Part No. Socket contact		Part No. Plug contact	
3W3	E228329			3	3003W3SXX73N20X	3003W3PXX73N20X	
5W5		3005W5SXX73N20X	3005W5PXX73N20X				
8W8		3008W8SXX73N20X	3008W8PXX73N20X				

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

4-40 UNC threaded insert, coded version

No. of poles		UL-File	Quality class	Part No. Socket contact		Part No. Plug contact	
2W2C	E228329			3	302W2CSXX73N20X	302W2CPXX73N20X	
3W3C		303W3CSXX73N20X	303W3CPXX73N20X				

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

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	
3W3	E228329			3	3003W3SXX73N40X	3003W3PXX73N40X	
5W5		3005W5SXX73N40X	3005W5PXX73N40X				
8W8		3008W8SXX73N40X	3008W8PXX73N40X				

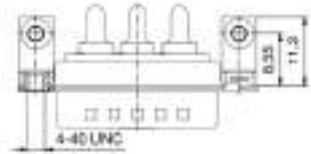
For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
59	15 A	1.90
73	20 A	2.85
74	30 A	3.20
75	40 A	3.75

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

COMBINATION D-SUB CONNECTORS With high power contacts 20 A

Solder pin, angled
Short metal bracket

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



For other Power contacts select code from spread sheet

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

No. of poles

UL-File

Quality class

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

Part No. Socket contact Part No. Plug contact

2W2C

E228329

3

302W2CSXX73N40X

302W2CPXX73N40X

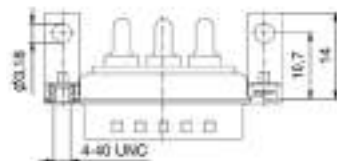
3W3C

303W3CSXX73N40X

303W3CPXX73N40X

Solder pin, angled
Long metal bracket

4-40 UNC threaded insert



For other Power contacts select code from spread sheet

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

3W3

E228329

3

3003W3SXX73G20X

3003W3PXX73G20X

5W5

3005W5SXX73G20X

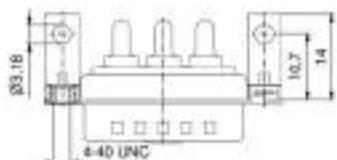
3005W5PXX73G20X

8W8

3008W8SXX73G20X

3008W8PXX73G20X

4-40 UNC threaded insert, coded version



For other Power contacts select code from spread sheet

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

2W2C

E228329

3

302W2CSXX73G20X

302W2CPXX73G20X

3W3C


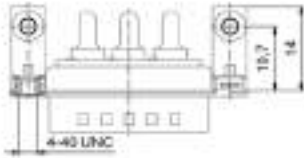
303W3CSXX73G20X

303W3CPXX73G20X


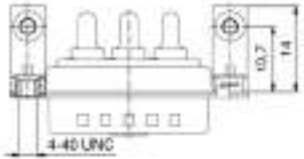
COMBINATION D-SUB CONNECTORS
With high power contacts 20 A

Solder pin, angled
Long metal bracket

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

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																	
  <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>59</td> <td>15 A</td> <td>1.90</td> </tr> <tr> <td>73</td> <td>20 A</td> <td>2.85</td> </tr> <tr> <td>74</td> <td>30 A</td> <td>3.20</td> </tr> <tr> <td>75</td> <td>40 A</td> <td>3.75</td> </tr> </tbody> </table>	For other Power contacts select code from spread sheet			Code	Current rating	Diameter solder pin	59	15 A	1.90	73	20 A	2.85	74	30 A	3.20	75	40 A	3.75	3W3	E228329	3	3003W3SXX73G40X	3003W3PXX73G40X
	For other Power contacts select code from spread sheet																						
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59	15 A	1.90																					
73	20 A	2.85																					
74	30 A	3.20																					
75	40 A	3.75																					
5W5		3005W5SXX73G40X	3005W5PXX73G40X																				
8W8		3008W8SXX73G40X	3008W8PXX73G40X																				

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

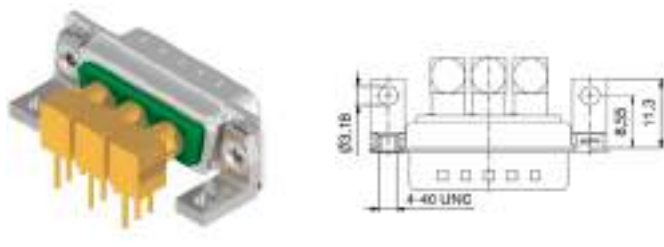
Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																	
  <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>59</td> <td>15 A</td> <td>1.90</td> </tr> <tr> <td>73</td> <td>20 A</td> <td>2.85</td> </tr> <tr> <td>74</td> <td>30 A</td> <td>3.20</td> </tr> <tr> <td>75</td> <td>40 A</td> <td>3.75</td> </tr> </tbody> </table>	For other Power contacts select code from spread sheet			Code	Current rating	Diameter solder pin	59	15 A	1.90	73	20 A	2.85	74	30 A	3.20	75	40 A	3.75	2W2C	E228329	3	302W2CSXX73G40X	302W2CPXX73G40X
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59	15 A	1.90																					
73	20 A	2.85																					
74	30 A	3.20																					
75	40 A	3.75																					
3W3C		303W3CSXX73G40X	303W3CPXX73G40X																				

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

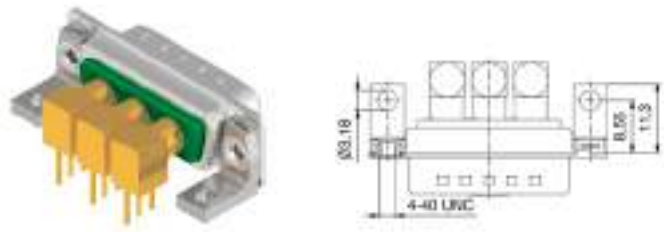
COMBINATION D-SUB CONNECTORS
With coaxial contacts 50 Ω

Solder pin, angled
Short metal bracket

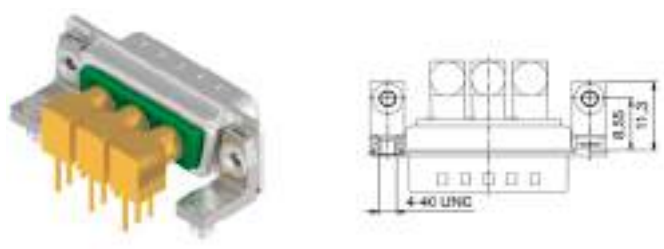
4-40 UNC threaded insert

		No. of poles	UL-File	Quality class	Part No. Socket contact		Part No. Plug contact						
For other coaxial contacts select code from spread sheet <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	78	50 Ω	88	75 Ω	3W3	E228329	3	3003W3SXX78N20X	3003W3PXX78N20X		
	Code	Impedance											
	78	50 Ω											
88	75 Ω												
5W5	3005W5SXX78N20X	3005W5PXX78N20X											
8W8	3008W8SXX78N20X	3008W8PXX78N20X											

4-40 UNC threaded insert, coded version

		No. of poles	UL-File	Quality class	Part No. Socket contact		Part No. Plug contact						
For other coaxial contacts select code from spread sheet <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	78	50 Ω	88	75 Ω	2W2C	E228329	3	302W2CSXX78N20X	302W2CPXX78N20X		
	Code	Impedance											
78	50 Ω												
88	75 Ω												
3W3C	303W3CSXX78N20X	303W3CPXX78N20X											


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						
For other coaxial contacts select code from spread sheet <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	78	50 Ω	88	75 Ω	3W3	E228329	3	3003W3SXX78N40X	3003W3PXX78N40X		
	Code	Impedance											
	78	50 Ω											
88	75 Ω												
5W5	3005W5SXX78N40X	3005W5PXX78N40X											
8W8	3008W8SXX78N40X	3008W8PXX78N40X											

COMBINATION D-SUB CONNECTORS
With coaxial contacts 50 Ω

Solder pin, angled
Short metal bracket

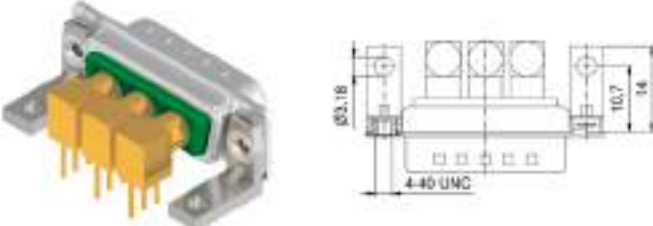
Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version

Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact					
 <p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	78	50 Ω	88	75 Ω	2W2C	E228329	3	302W2CSXX78N40X	302W2CPXX78N40X
	Code	Impedance									
78	50 Ω										
88	75 Ω										
3W3C	303W3CSXX78N40X	303W3CPXX78N40X									

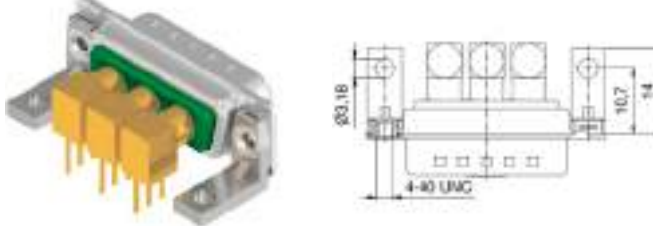
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class J >= 500 mating cycles
• M3 thread

Solder pin, angled
Long metal bracket

4-40 UNC threaded insert

4-40 UNC threaded insert		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact					
 <p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	78	50 Ω	88	75 Ω	3W3	E228329	3	3003W3SXX78G20X	3003W3PXX78G20X
	Code	Impedance									
	78	50 Ω									
88	75 Ω										
5W5	3005W5SXX78G20X	3005W5PXX78G20X									
8W8	3008W8SXX78G20X	3008W8PXX78G20X									


4-40 UNC threaded insert, coded version

4-40 UNC threaded insert, coded version		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact					
 <p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	78	50 Ω	88	75 Ω	2W2C	E228329	3	302W2CSXX78G20X	302W2CPXX78G20X
	Code	Impedance									
78	50 Ω										
88	75 Ω										
3W3C	303W3CSXX78G20X	303W3CPXX78G20X									


COMBINATION D-SUB CONNECTORS
With coaxial contacts 50 Ω

Solder pin, angled
Long metal bracket

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

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						
	<p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	78	50 Ω	88	75 Ω	3W3	E228329	3	3003W3SXX78G40X	3003W3PXX78G40X
		Code	Impedance									
		78	50 Ω									
88	75 Ω											
5W5	3005W5SXX78G40X	3005W5PXX78G40X										
8W8	3008W8SXX78G40X	3008W8PXX78G40X										

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


Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact						
	<p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	78	50 Ω	88	75 Ω	2W2C	E228329	3	302W2CSXX78G40X	302W2CPXX78G40X
		Code	Impedance									
78	50 Ω											
88	75 Ω											
3W3C	303W3CSXX78G40X	303W3CPXX78G40X										

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

COMBINATION D-SUB CONNECTORS Without contacts

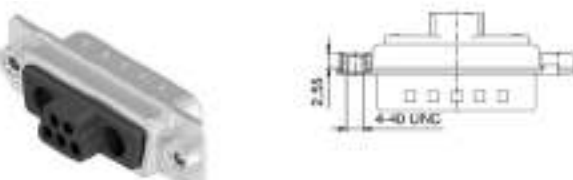
Crimp body
AWG 20-24 and AWG 26-28

Through-hole Ø 3 mm

	No. of poles	UL-File	Part No.	
			Socket contact	Plug contact
	5W1	E228329	3005W1SXX99A10X	3005W1PXX99A10X
	7W2		3007W2SXX99A10X	3007W2PXX99A10X
	9W4		3009W4SXX99A10X	3009W4PXX99A10X
	11W1		3011W1SXX99A10X	3011W1PXX99A10X
	13W3		3013W3SXX99A10X	3013W3PXX99A10X
	13W6		3013W6SXX99A10X	3013W6PXX99A10X
	17W2		3017W2SXX99A10X	3017W2PXX99A10X
	17W5		3017W5SXX99A10X	3017W5PXX99A10X
	21W1		3021W1SXX99A10X	3021W1PXX99A10X
	24W7		3024W7SXX99A10X	3024W7PXX99A10X
	25W3		3025W3SXX99A10X	3025W3PXX99A10X
	27W2		3027W2SXX99A10X	3027W2PXX99A10X
	36W4		3036W4SXX99A10X	3036W4PXX99A10X
	43W2		3043W2SXX99A10X	3043W2PXX99A10X
	47W1		3047W1SXX99A10X	3047W1PXX99A10X
	21WA4		321WA4SXX99A10X	321WA4PXX99A10X

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


4-40 UNC threaded insert

	No. of poles	UL-File	Part No.	
			Socket contact	Plug contact
	5W1	E228329	3005W1SXX99A30X	3005W1PXX99A30X
	7W2		3007W2SXX99A30X	3007W2PXX99A30X
	9W4		3009W4SXX99A30X	3009W4PXX99A30X
	11W1		3011W1SXX99A30X	3011W1PXX99A30X
	13W3		3013W3SXX99A30X	3013W3PXX99A30X
	13W6		3013W6SXX99A30X	3013W6PXX99A30X
	17W2		3017W2SXX99A30X	3017W2PXX99A30X
	17W5		3017W5SXX99A30X	3017W5PXX99A30X
	21W1		3021W1SXX99A30X	3021W1PXX99A30X
	24W7		3024W7SXX99A30X	3024W7PXX99A30X
	25W3		3025W3SXX99A30X	3025W3PXX99A30X
	27W2		3027W2SXX99A30X	3027W2PXX99A30X
	36W4		3036W4SXX99A30X	3036W4PXX99A30X
	43W2		3043W2SXX99A30X	3043W2PXX99A30X
	47W1		3047W1SXX99A30X	3047W1PXX99A30X
	21WA4		321WA4SXX99A30X	321WA4PXX99A30X


COMBINATION D-SUB CONNECTORS Contacts

Signal contacts crimp

Socket contact closed entry

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


Socket contact

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

COMBINATION D-SUB CONNECTORS Contacts

Signal contacts crimp

Plug contact

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

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

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

COMBINATION D-SUB CONNECTORS Contacts

High power contacts
Solder cup, straight

Socket contact

Socket contact		AWG	Current rating [A]	Code use with part no. creator	Ø Termination A= [mm]	Quality class	UL-File	Part No.
	16-20	10	41	18	C	E228329	132C10019X	
			61				A	132A10019X
	12-14	20	42	2.7	C		132C10029X	
			62		A		132A10029X	
	10-12	30	43	3.5	C		132C10039X	
			63		A		132A10039X	
	8-10	40	44	4.8	C		132C10049X	
			64		A		132A10049X	

Plug contact

	16-20	10	41	1.8	C	E228329	131C10019X
			61		A		131A10019X
	12-14	20	42	2.7	C		131C10029X
			62		A		131A10029X
	10-12	30	43	3.5	C		131C10039X
			63		A		131A10039X
	8-10	40	44	4.8	C		131C10049X
			64		A		131A10049X

COMBINATION D-SUB CONNECTORS Contacts

High power contacts
Solder cup, straight

Plug contact, premating

Plug contact, premating		AWG	Current rating [A]	Ø Termination A= [mm]	Quality class	UL-File	Part No.
	16-20	10	1.8	C	E228329	131C10119X	
	12-14	20	2.7			131C10129X	
	10-12	30	3.5			131C10139X	
	8-10	40	4.8			131C10149X	

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

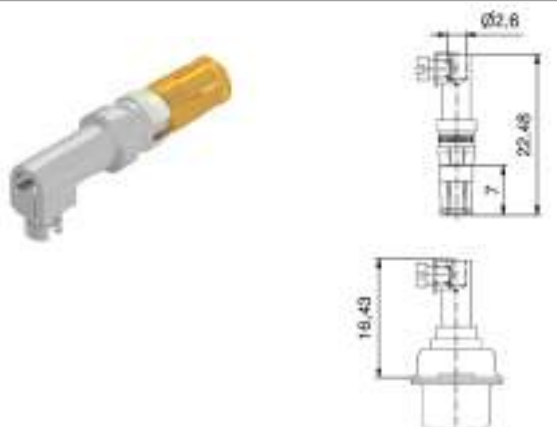
Quality class 1 (C) = 500 mating cycles
On request:
• Quality class 3 (A) = 50 mating cycles

COMBINATION D-SUB CONNECTORS Contacts

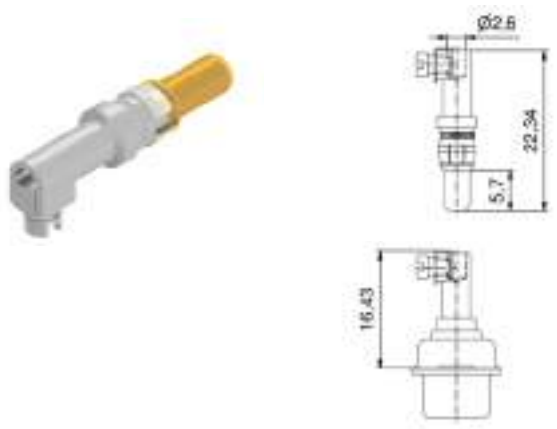
High power contacts
Screw termination

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

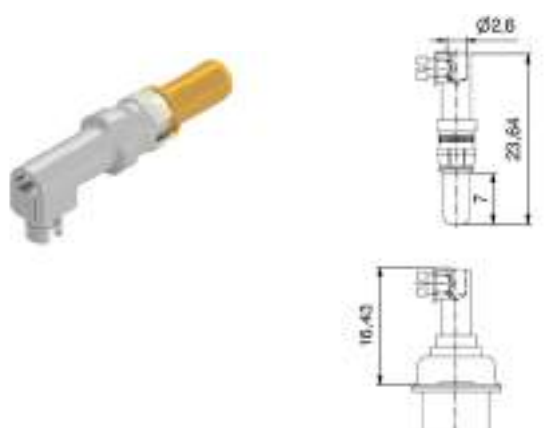
Socket contact

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

Plug contact

	14	20	C	131C36009X
			A	131A36009X
E228329				

Plug contact, premating

	14	20	C	131C36109X
E228329				

COMBINATION D-SUB CONNECTORS Contacts

High power contacts Crimp, straight

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

Socket contact

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

Plug contact

	16-20	10	1.7	C	E228329	131C11019X
				A		131A11019X
	12-14	20	2.6	C		131C11029X
				A		131A11029X
	10-12	30	3.7	C		131C11039X
				A		131A11039X
	8-10	40	4.6	C		131C11049X
				A		131A11049X

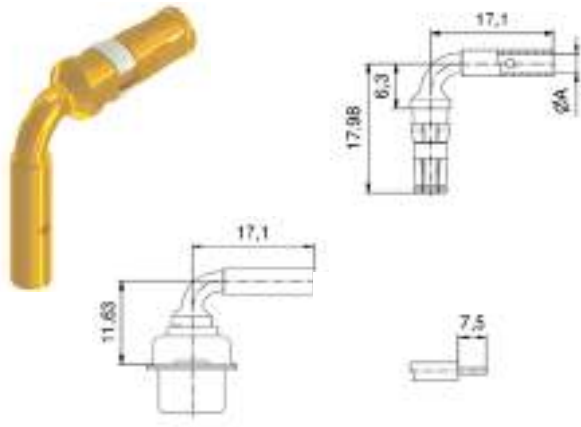
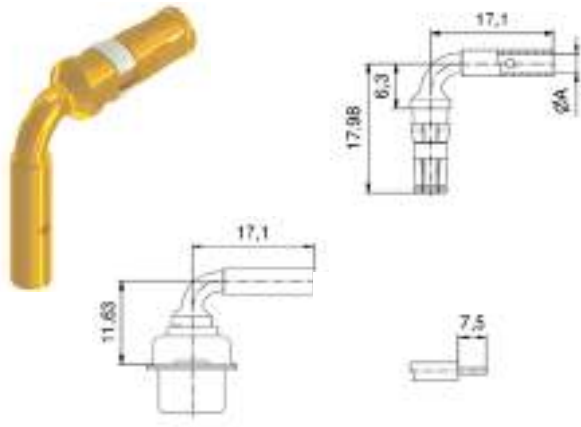
Plug contact, prematung

	16-20	10	1.7	C	E228329	131C11119X
	12-14	20	2.6			131C11129X
	10-12	30	3.7			131C11139X
	8-10	40	4.6			131C11149X

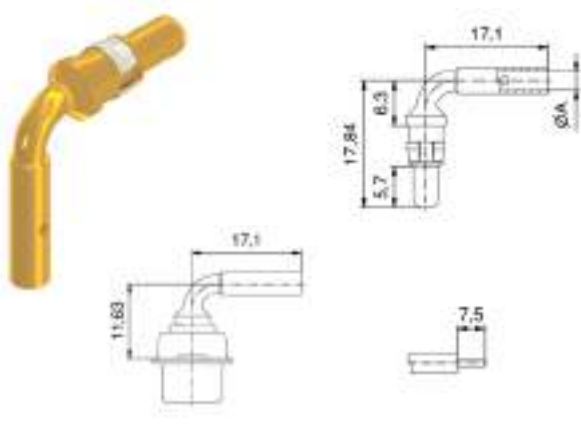
COMBINATION D-SUB CONNECTORS Contacts

High power contacts Crimp, angled

Socket contact

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

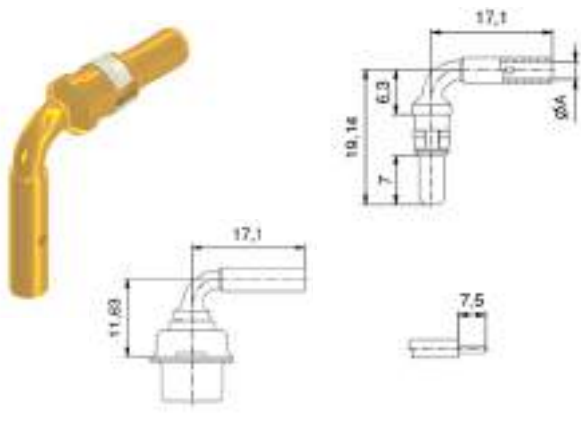
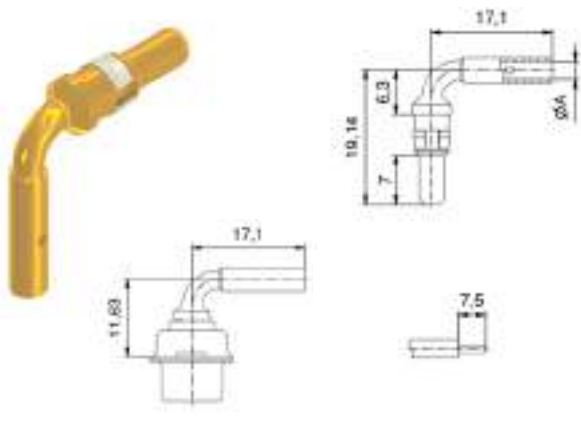
Plug contact

	16-20	10	1.7	C	E228329	131C16019X
				A		131A16019X
	12-14	20	2.6	C		131C16029X
				A		131A16029X
	10-12	30	3.7	C		131C16039X
				A		131A16039X
	8-10	40	4.6	C		131C16049X
				A		131A16049X
	12-14	20	2.6	C		131C16029X
				A		131A16029X
10-12	30	3.7	C	131C16039X		
			A	131A16039X		

COMBINATION D-SUB CONNECTORS Contacts

High power contacts Crimp, angled

Plug contact, prematung

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

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

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

COMBINATION D-SUB CONNECTORS Contacts

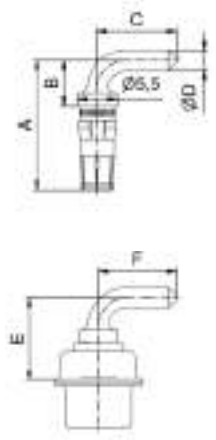
High power contacts
Solder pin, angled

Socket contact

Quality class 3 (A) = 50 mating cycles
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
1-4	15	55	2.3	C	E228329
		59		A	
	20	56	3.2	C	
		73		A	
	30	57	3.6	C	
		74		A	
40	58	4.1	C		
	75		A		
5	20	66	3.2	C	
		81		A	
	30	67	3.6	C	
		82		A	
		65		C	
		85		A	
	40	60	4.1	C	
		77		A	

Part No.
132C13009X
132A13009X
132C13019X
132A13019X
132C13029X
132A13029X
132C13039X
132A13039X
132C13060X
132A13060X
132C13070X
132A13070X
132C13059X
132A13059X
132C13049X
132A13049X



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

COMBINATION D-SUB CONNECTORS Contacts

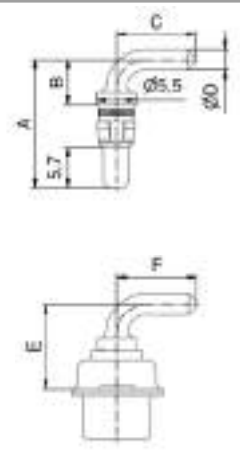
High power contacts
Solder pin, angled

Plug contact

Quality class 3 (A) = 50 mating cycles
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
1-4	15	55	23	C	E228329
		59		A	
	20	56	3.2	C	
		73		A	
	30	57	3.6	C	
		74		A	
40	58	4.1	C		
	75		A		
5	20	66	3.2	C	
		81		A	
	30	67	3.6	C	
		82		A	
		65		C	
		85		A	
	40	60	4.1	C	
		77		A	

Part No.
131C13009X
131A13009X
131C13019X
131A13019X
131C13029X
131A13029X
131C13039X
131A13039X
131C13060X
131A13060X
131C13070X
131A13070X
131C13059X
131A13059X
131C13049X
131A13049X



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

COMBINATION D-SUB CONNECTORS Contacts

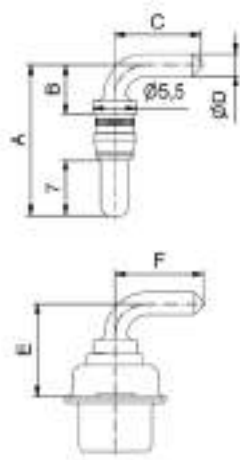
High power contacts
Solder pin, angled

Plug contact, premating

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

Shell size	Current rating [A]	Hole diameter of PCB [mm]	Quality class	Part No.
14	15	23	C	131C13109X
	20	32		131C13119X
	30	36		131C13129X
	40	4.1		131C13139X
5	20	3.2		131C13160X
	30	3.6		131C13170X
				131C13159X
	40	4.1		131C13149X

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



COMBINATION D-SUB CONNECTORS Contacts

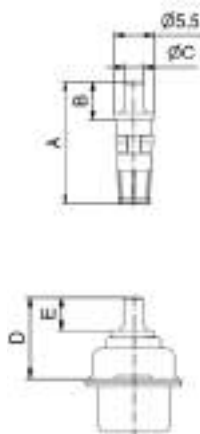
High power contacts
Solder pin, straight

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

Socket contact

Shell size	Current rating [A]	Code use with part no. creator	Hole diameter of PCB [mm]	Quality class	UL-File
1-5	20	48	2.3	C	E228329
		68		A	
		49	3	C	
		69		A	
		50	3.2	C	
		70		A	
	30	51	3.6	C	
				71	
		52	4.1	C	
				72	

Part No.
132C12019X
132A12019X
132C12029X
132A12029X
132C12039X
132A12039X
132C12049X
132A12049X
132C12059X
132A12059X

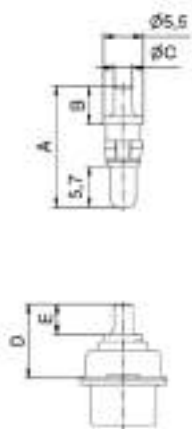


Current rating [A]	Termination	A	B	C Ø	D	E
20	48/68	15.98	4.60	1.95	9.65	3.80
20	49/69	16.98	5.30	2.60	10.65	4.30
20	50/70	16.38	4.70	2.85	10.05	3.70
30	51/71	19.18	7.50	3.18	12.85	6.70
40	52/72	17.43	5.75	3.75	11.10	4.75

Plug contact

Shell size	Current rating [A]	Code use with part no. creator	Hole diameter of PCB [mm]	Quality class	UL-File
1-5	20	48	2.3	C	E228329
		68		A	
		49	3	C	
		69		A	
		50	3.2	C	
		70		A	
	30	51	3.6	C	
				71	
		52	4.1	C	
				72	

Part No.
131C12019X
131A12019X
131C12029X
131A12029X
131C12039X
131A12039X
131C12049X
131A12049X
131C12059X
131A12059X



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

COMBINATION D-SUB CONNECTORS Contacts

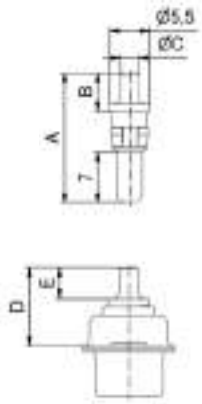
High power contacts
Solder pin, straight

Plug contact, premating

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

Shell size	Current rating [A]	Hole diameter of PCB [mm]	Quality class	Part No.
1-5	20	23	C	131C12119X
		30		131C12129X
		32		131C12139X
		36		131C12149X
		41		131C12159X

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



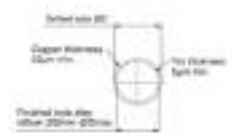
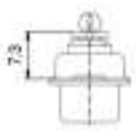
COMBINATION D-SUB CONNECTORS Contacts

High power contacts
Press-fit version, straight

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

Socket contact

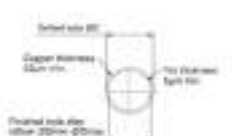
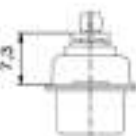
Shell size	Current rating [A]	Code use with part no. creator	Hole diameter of PCB [mm]	Quality class	UL-File	Part No.
1-5	30	P1	3.11	C	E228329	132C00229A
		P2	3.25			132C00299A
		P4	3.2			132C19019X



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

Plug contact

1-5	30	P1	3.11	C	E228329	131C00319A
		P2	3.25			131C00389A
		P4	3.2			131C19019X



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

COMBINATION D-SUB CONNECTORS Contacts

High voltage contacts
Solder termination, straight

Quality class J \geq 500 mating cycles

Socket contact

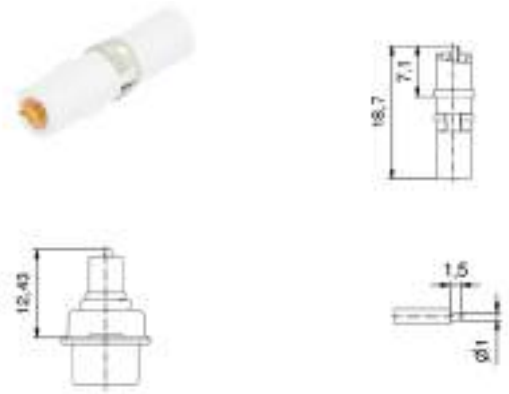
AWG

Working voltage max. [kV]

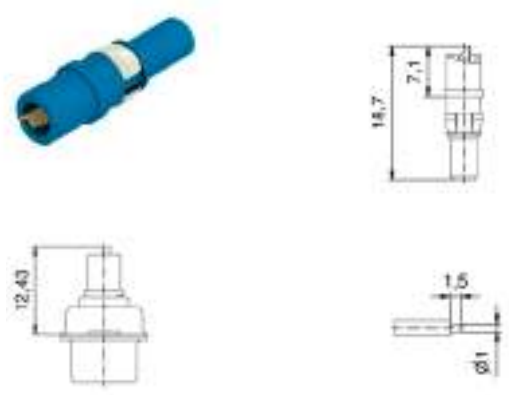
Quality class

UL-File

Part No.

	20	2.8	J	E228329	132J14019X
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Plug contact

	20	2.8	J	E228329	131J14019X
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COMBINATION D-SUB CONNECTORS
Contacts

High voltage contacts
Solder termination, angled

Quality class J \geq 500 mating cycles

Socket contact

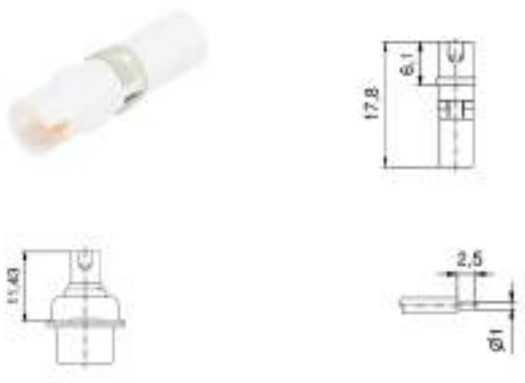
AWG

Working voltage max. [kV]

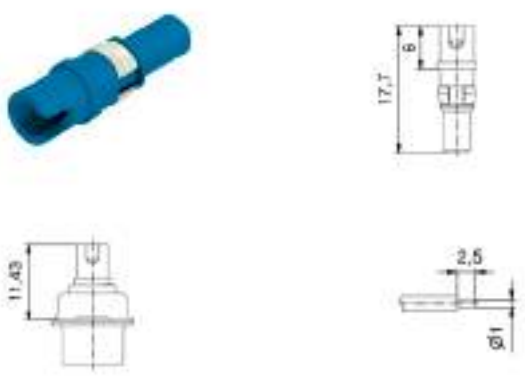
Quality class

UL-File

Part No.

	20	2.8	J	E228329	132J14519X
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Plug contact

	20	2.8	J	E228329	131J14519X
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COMBINATION D-SUB CONNECTORS Contacts

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

Socket contact

Quality class J \geq 500 mating cycles
Quality class 3 (A) = 50 mating cycles

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

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

Plug contact

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

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

COMBINATION D-SUB CONNECTORS Contacts

Coaxial contacts, straight
Inner and outer conductor crimp termination

Quality class J \geq 500 mating cycles
Quality class 3 (A) = 50 mating cycles

Socket contact

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

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

Plug contact

50	174 /U, 188 A/U, 316 /U	J	E228329	131J21019X
		A		131A21019X
	316 /U double braided	J		131J21029X
		A		131A21029X
	58 C/U, 141 A/U	J		131J21039X
		A		131A21039X
75	179 B/U, 187 A/U	J		131J31019X
		A		131A31019X
	180 B/U	J		131J31029X
		A		131A31029X

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

COMBINATION D-SUB CONNECTORS Contacts

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

Quality class J \geq 500 mating cycles
Quality class 3 (A) = 50 mating cycles

Socket contact

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

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

Plug contact

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

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

COMBINATION D-SUB CONNECTORS Contacts

Coaxial contacts, angled
Inner and outer conductor crimp termination

Quality class J \geq 500 mating cycles
Quality class 3 (A) = 50 mating cycles

Socket contact

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

Plug contact

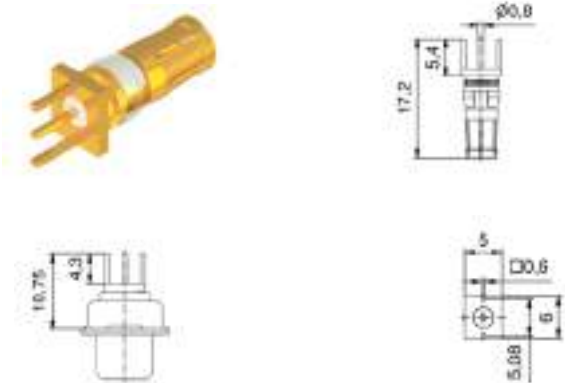
	50	174 /U, 188 A/U, 316 /U	J	E228329	131J23019X
			A		131A23019X
	75	179 B/U, 187 A/U	J		131J33019X
			A		131A33019X

COMBINATION D-SUB CONNECTORS Contacts

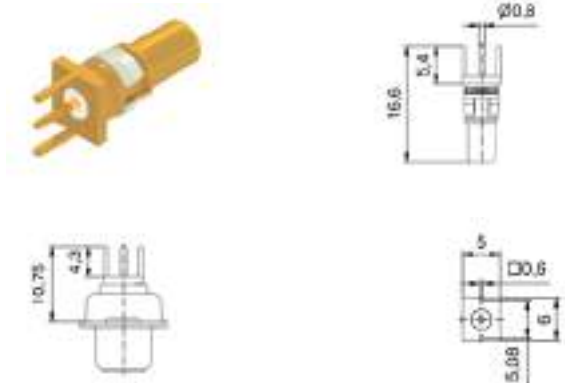
Coaxial contacts, straight
PCB termination, 3 solder pins

Quality class J \geq 500 mating cycles
Quality class 3 (A) = 50 mating cycles

Socket contact

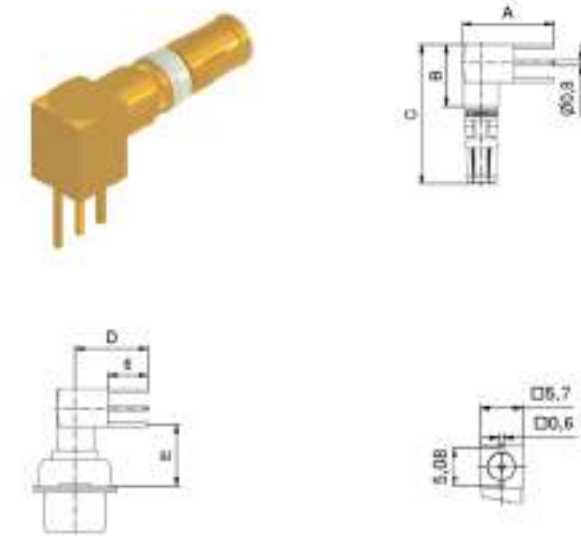
	Impedance [Ω]	Shell size	Code use with part no. creator	Quality class	UL-File	Part No.
	50	1-5	76	J	E228329	132J24019X
			G7	A		132A24019X
	75	1-5	86	J		132J34019X
			G8	A		132A34019X

Plug contact

	50	1-5	76	J	E228329	131J24019X
			G7	A		131A24019X
	75	1-5	86	J		131J34019X
			G8	A		131A34019X

Coaxial contacts, angled
PCB termination, 3 solder pins

Socket contact

	50	1-4	78	J	E228329	132J25019X
			G9	A		132A25019X
	5	1-4	79	J		132J25029X
			H1	A		132A25029X
	75	1-4	88	J		132J35019X
			H2	A		132A35019X
5	1-4	89	J	132J35029X		
		H3	A	132A35029X		

Shellsize	A	B	C	D	E
1-4	13.80	9.30	21.20	11.00	9.30
5	16.80	11.80	23.70	14.00	11.80

COMBINATION D-SUB CONNECTORS Contacts

Coaxial contacts, angled
PCB termination, 3 solder pins

Plug contact

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

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

COMBINATION D-SUB CONNECTORS Contacts

Coaxial contacts, straight
PCB termination, 5 solder pins

Socket contact

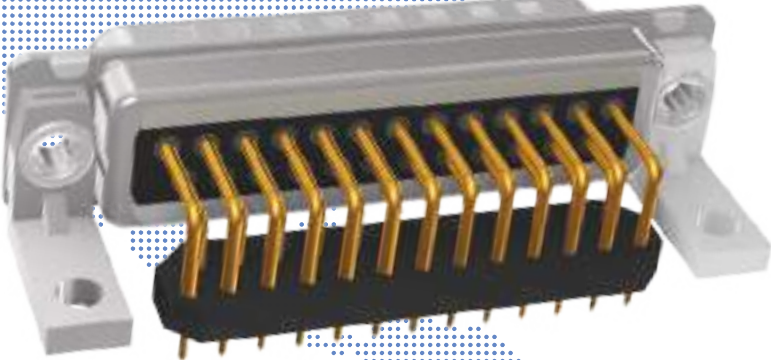
Impedance [Ω]		Shell size	Code use with part no. creator	Quality class	UL-File	Part No.
50	1-4	80	J	E228329		132J25519X
		H4	A			132A25519X
	75	90	J			132J35519X
		H5	A			132A35519X

Plug contact

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

SECTION 3

FILTER D-SUB CONNECTORS





FILTER D-SUB CONNECTORS

Product specification

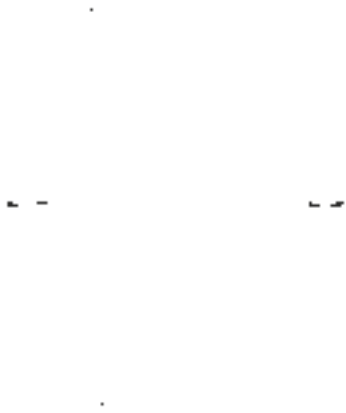
Basic material	Filter D-SUB Standard 9-, 15-, 25-, 37-, 50-position	Filter D-SUB High Density 15-, 25-, 44-, 62-, 78-position		
Contacts	Copper alloy			
Contact plating	Gold over nickel			
Insulator	PBT GF UL 94 V-0			
Shell	Steel tin plated (on request: brass tin plated)			
Technical data				
Dielectric with standing voltage	<ul style="list-style-type: none"> • Standard 424 VDC • Standard (T-Filter) 300 VDC • High DWV 707 VDC • Ultra high DWV 1500 VDC * • Ultra high DWV (T-Filter) 1000 VDC * <small>*on request</small> 	<ul style="list-style-type: none"> • Standard 300 VDC 		
Working voltage	<ul style="list-style-type: none"> • Standard 100 VDC* • High DWV 100 VDC* • Ultra high DWV 200 VDC* 	<ul style="list-style-type: none"> • Standard 100 VDC* 		
<small>*Depending on isolation coordination (refer to DIN VDE 0110/IEC 664-1)</small>				
Voltage surge 10/700 μ s	<ul style="list-style-type: none"> • Standard 300 V • High Voltage 500 V 	<ul style="list-style-type: none"> • 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 m Ω vor Beanspruchung, Δ R max. 10 m Ω nach Beanspruchung refer to IEC 60807-2			
Insulation resistance	$\geq 1G\Omega$			
Capacitor values	370 pF \pm 20 % tolerance 830 pF \pm 20 % tolerance 1300 pF \pm 20 % tolerance <small>other capacitor values on request</small>	370 pF \pm 20 % tolerance 830 pF \pm 20 % tolerance		
Operating temperature	-25 °C to +105 °C	-25 °C to +85 °C		
Humidity	40 °C / 85 % relative humidity/RH			
Mating and unmating forces	9-pos. \leq 30 N 15-pos. \leq 50 N 25-pos. \leq 83 N 37-pos. \leq 123 N 50-pos. \leq 167 N	15-pos. \leq 50 N 26-pos. \leq 83 N 44-pos. \leq 110 N 62-pos. \leq 170 N 78-pos. \leq 200 N		
Quality class	A= Quality class 3 = 50 mating cycles, B = Quality class 2 = 200 mating cycles, C = Quality class 1 = 500 mating cycles			
Solder parameter	Preheating		Solder terminal dipping parameters	
	max. temperature	Duration	max. Solder bath temperature	max. Terminal Immersion Time
Recommended wave-solder parameters	100 °C	30 s	260 °C	5 s

Technical specifications are subject to change without notice.

FILTER D-SUB CONNECTORS

Mating conditions

Max. tilt angle for connector mating



Range for safe contact

Lock-in range

J
1



Panel cut-out

Back panel mounting

Front panel mounting

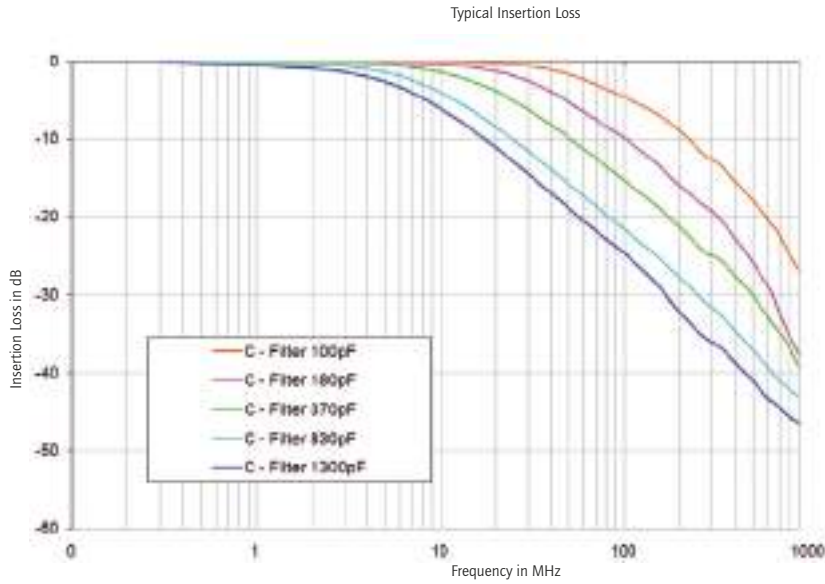


Shell size	No. of poles	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
1	9 15	20.50	22.20	25.00	11.40	13.00
2	15 26	28.80	30.50	33.30	11.40	13.00
3	25 44	42.50	44.30	47.04	11.40	13.00
4	37 62	59.10	60.70	63.50	11.40	13.00
5	50 78	56.30	58.30	61.10	14.10	15.80

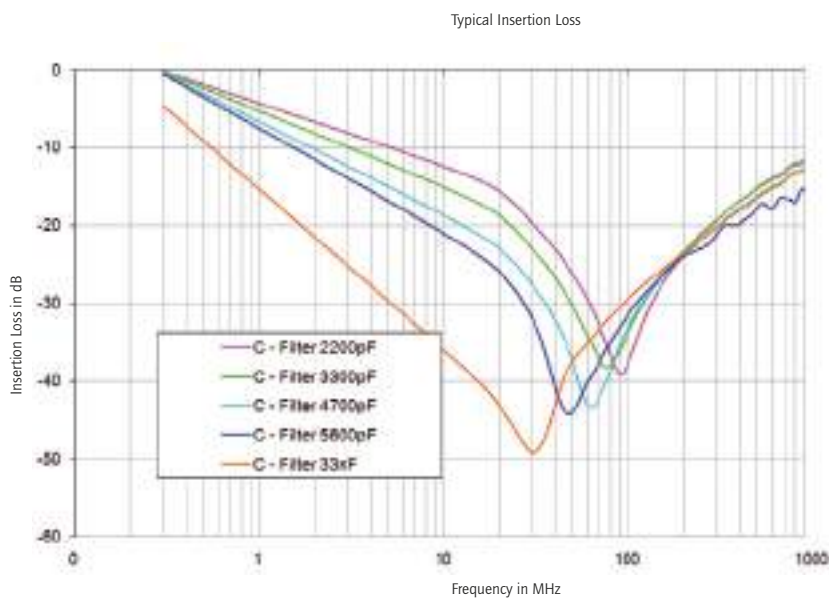
Technical specifications are subject to change without notice.

Insertion loss

C-Filter with planar filter technology



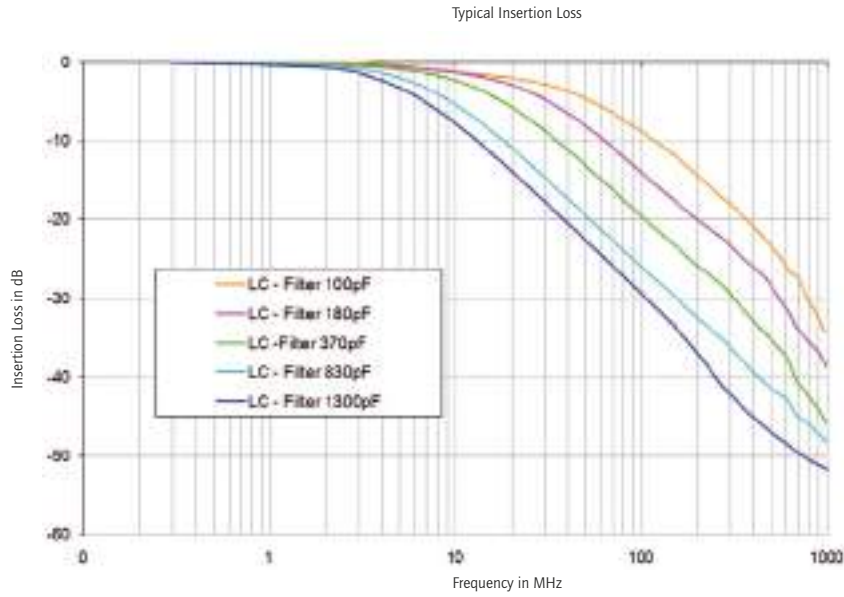
C-Filter with chip technology



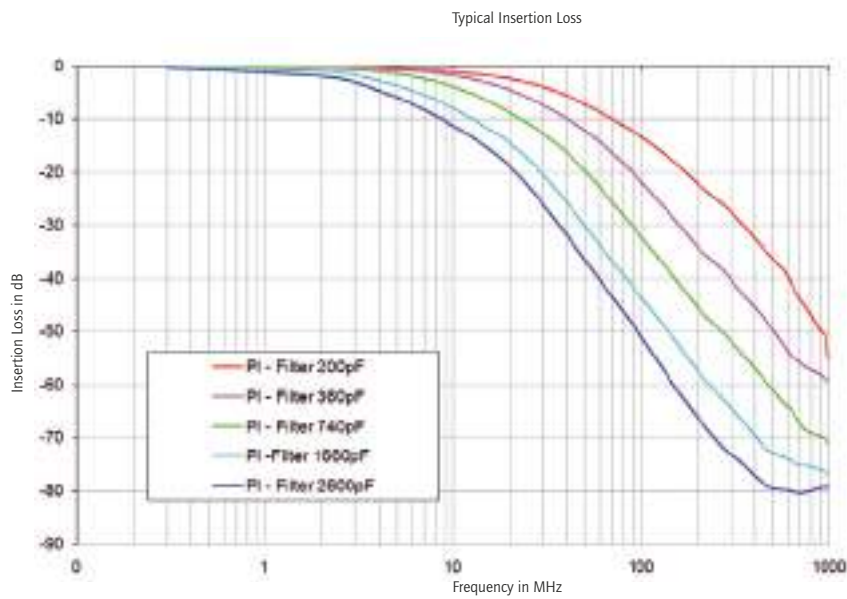
Technical specifications are subject to change without notice.

Insertion loss

LC-Filter with planar filter technology



π -Filter with planar filter technology


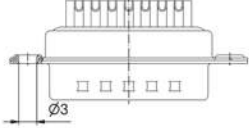


FILTER D-SUB CONNECTORS
C-Filter Standard


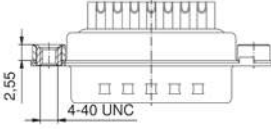
Solder cup
Precision machined contacts, AWG 20

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

Through-hole Ø 3 mm

		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
 	09	75 (UII) / 5 (CSA, VDE)	100	E202784	3	370	242A26780X	241A26880X	
	15						242A26790X	241A26890X	
	25						242A26800X	241A26900X	
	37						242A26810X	241A26910X	
	09	75 (UII) / 5 (CSA, VDE)	100	E202784	3	830	242A26820X	241A26920X	
	15						242A26830X	241A26930X	
	25						242A26840X	241A26940X	
	37						242A26850X	241A26950X	
	09	75 (UII) / 5 (CSA, VDE)	100	E202784	3	1300	242A26860X	241A26960X	
	15						242A26870X	241A26970X	
	25						242A26880X	241A26980X	
	37						242A26890X	241A26990X	

4-40 UNC threaded insert

 	09	75 (UII) / 5 (CSA, VDE)	100	E202784	3	370	242A26940X	241A27040X
	15						242A26950X	241A27050X
	25						242A26960X	241A27060X
	37						242A26970X	241A27070X
	09	75 (UII) / 5 (CSA, VDE)	100	E202784	3	830	242A26980X	241A27080X
	15						242A26990X	241A27090X
	25						242A27000X	241A27100X
	37						242A27010X	241A27110X
	09	75 (UII) / 5 (CSA, VDE)	100	E202784	3	1300	242A27020X	241A27120X
	15						242A27030X	241A27130X
	25						242A27040X	241A27140X
	37						242A27050X	241A27150X

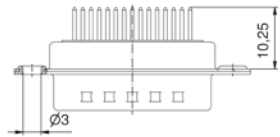
FILTER D-SUB CONNECTORS
C-Filter Standard

Solder pin, straight
Precision machined contacts

Through-hole Ø 3 mm

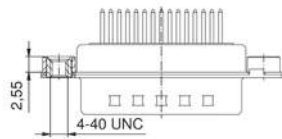
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A10010X	241A10010X
15						242A10020X	241A10020X
25						242A10030X	241A10030X
37						242A10040X	241A10040X
50						242A15580X	241A15690X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A10090X	241A10090X
15						242A10100X	241A10100X
25						242A10110X	241A10110X
37						242A10120X	241A10120X
50						242A15600X	241A15710X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A10050X	241A10050X
15						242A10060X	241A10060X
25						242A10070X	241A10070X
37						242A10080X	241A10080X
50						242A15590X	241A15700X



4-40 UNC threaded insert


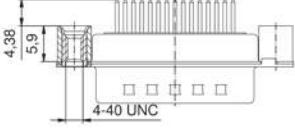
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A10130X	241A10130X
15						242A10140X	241A10140X
25						242A10150X	241A10150X
37						242A10160X	241A10160X
50						242A15610X	241A15720X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A10210X	241A10210X
15						242A10220X	241A10220X
25						242A10230X	241A10230X
37						242A10240X	241A10240X
50						242A15630X	241A15740X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A10170X	241A10170X
15						242A10180X	241A10180X
25						242A10190X	241A10190X
37						242A10200X	241A10200X
50						242A15620X	241A15730X



FILTER D-SUB CONNECTORS
C-Filter Standard


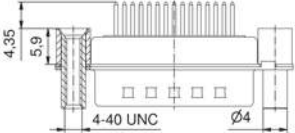
Solder pin, straight
Precision machined contacts

4-40 UNC threaded rear spacer

No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A10370X	241A10370X
15						242A10380X	241A10380X
25						242A10390X	241A10390X
37						242A10400X	241A10400X
50						242A15670X	241A15780X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A10450X	241A10450X
15						242A10460X	241A10460X
25						242A10470X	241A10470X
37						242A10480X	241A10480X
50						242A15690X	241A15800X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A10410X	241A10410X
15						242A10420X	241A10420X
25						242A10430X	241A10430X
37						242A10440X	241A10440X
50						242A15680X	241A15790X

4-40 UNC front, threaded rear spacer

09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A10610X	241A10610X
15						242A10620X	241A10620X
25						242A10630X	241A10630X
37						242A10640X	241A10640X
50						242A15730X	241A15840X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A10690X	241A10690X
15						242A10700X	241A10700X
25						242A10710X	241A10710X
37						242A10720X	241A10720X
50						242A15750X	241A15860X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A10650X	241A10650X
15						242A10660X	241A10660X
25						242A10670X	241A10670X
37						242A10680X	241A10680X
50						242A15740X	241A15850X

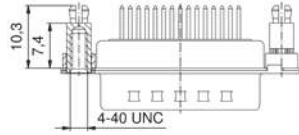
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

FILTER D-SUB CONNECTORS
C-Filter Standard

Solder pin, straight
Precision machined contacts

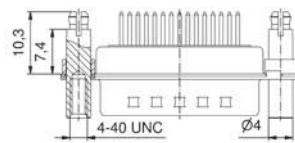
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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



No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A14980X	241A15090X
15						242A14990X	241A15100X
25						242A15000X	241A15110X
37						242A15010X	241A15120X
50						242A15020X	241A15130X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A15080X	241A15190X
15						242A15090X	241A15200X
25						242A15100X	241A15210X
37						242A15110X	241A15220X
50						242A15120X	241A15230X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A15030X	241A15140X
15						242A15040X	241A15150X
25						242A15050X	241A15160X
37						242A15060X	241A15170X
50						242A15070X	241A15180X

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



09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A15280X	241A15390X
15						242A15290X	241A15400X
25						242A15300X	241A15410X
37						242A15310X	241A15420X
50						242A15320X	241A15430X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A15380X	241A15490X
15						242A15390X	241A15500X
25						242A15400X	241A15510X
37						242A15410X	241A15520X
50						242A15420X	241A15530X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A15330X	241A15440X
15						242A15340X	241A15450X
25						242A15350X	241A15460X
37						242A15360X	241A15470X
50						242A15370X	241A15480X

FILTER D-SUB CONNECTORS
C-Filter Standard

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

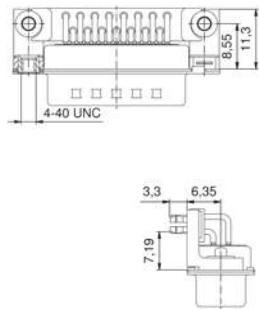
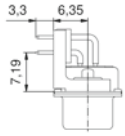
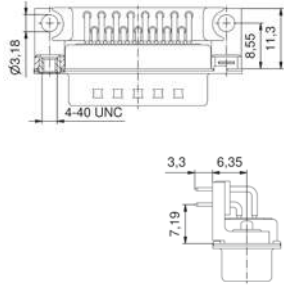
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert

No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A12340X	241A12320X
15						242A12350X	241A12330X
25						242A12360X	241A12340X
37						242A12370X	241A12350X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A12420X	241A12400X
15						242A12430X	241A12410X
25						242A12440X	241A12420X
37						242A12450X	241A12430X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A12380X	241A12360X
15						242A12390X	241A12370X
25						242A12400X	241A12380X
37						242A12410X	241A12390X

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

No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A17740X	241A16140X
15						242A17750X	241A16150X
25						242A17760X	241A16160X
37						242A17770X	241A16170X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A17700X	241A16100X
15						242A17710X	241A16110X
25						242A17720X	241A16120X
37						242A17730X	241A16130X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A17660X	241A16060X
15						242A17670X	241A16070X
25						242A17680X	241A16080X
37						242A17690X	241A16090X


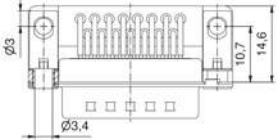

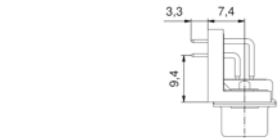
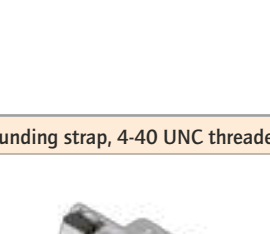



FILTER D-SUB CONNECTORS
C-Filter Standard


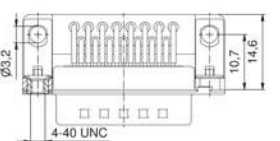

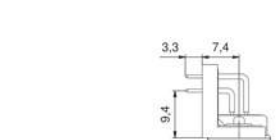


Solder pin, angled, .370" / 9.4 mm
Precision machined contacts, plastic bracket

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

Grounding strap, through-hole Ø 3.4 mm

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

Grounding strap, 4-40 UNC threaded insert


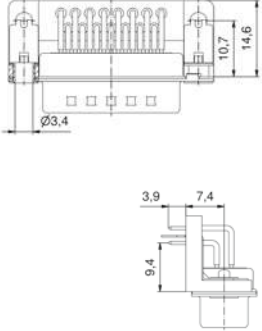
 	09	100	E202784	3	370	242A11090X	241A11090X
	15					242A11100X	241A11100X
	25					242A11110X	241A11110X
	37					242A11120X	241A11120X
 	09	100	E202784	3	830	242A11170X	241A11170X
	15					242A11180X	241A11180X
	25					242A11190X	241A11190X
	37					242A11200X	241A11200X
 	09	100	E202784	3	1300	242A11130X	241A11130X
	15					242A11140X	241A11140X
	25					242A11150X	241A11150X
	37					242A11160X	241A11160X

FILTER D-SUB CONNECTORS
C-Filter Standard


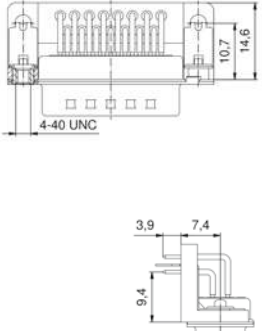
Solder pin, angled, .370" / 9.4 mm
Precision machined contacts, plastic bracket

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

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

		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
 	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A12700X	241A12680X	
	15						242A12710X	241A12690X	
	25						242A12720X	241A12700X	
	37						242A12730X	241A12710X	
	50						242A23990X	241A24090X	
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A12780X	241A12760X	
	15						242A12790X	241A12770X	
	25						242A12800X	241A12780X	
	37						242A12810X	241A12790X	
	50						242A24000X	241A24100X	
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A12740X	241A12720X		
15						242A12750X	241A12730X		
25						242A12760X	241A12740X		
37						242A12770X	241A12750X		
50						242A24010X	241A24110X		

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


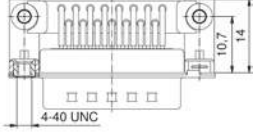
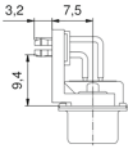
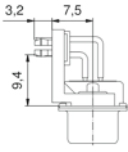
 	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A12820X	241A12800X
	15						242A12830X	241A12810X
	25						242A12840X	241A12820X
	37						242A12850X	241A12830X
	50						242A24030X	241A24130X
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A12900X	241A12880X
	15						242A12910X	241A12890X
	25						242A12920X	241A12900X
	37						242A12930X	241A12910X
	50						242A24040X	241A24140X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A12860X	241A12840X	
15						242A12870X	241A12850X	
25						242A12880X	241A12860X	
37						242A12890X	241A12870X	
50						242A24050X	241A24150X	

FILTER D-SUB CONNECTORS
C-Filter Standard


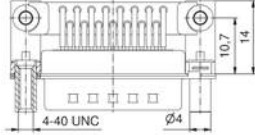
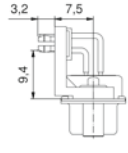
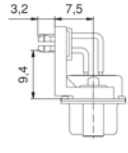
Solder pin, angled, .370" / 9.4 mm
Precision machined contacts, metal bracket

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

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

		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
 	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A21450X	241A21600X	
	15						242A21460X	241A21610X	
	25						242A21470X	241A21620X	
	37						242A21480X	241A21630X	
	50						242A27230X	241A27330X	
		09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A21490X	241A21640X
		15						242A21500X	241A21650X
		25						242A21510X	241A21660X
		37						242A21520X	241A21670X
		50						242A27240X	241A27340X
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A21530X	241A21680X	
	15						242A21540X	241A21690X	
	25						242A21550X	241A21700X	
	37						242A21560X	241A21710X	
	50						242A27250X	241A27350X	

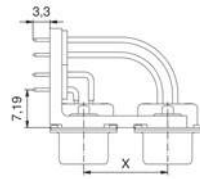
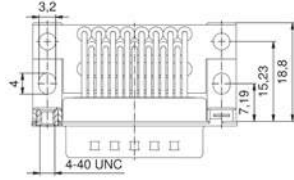
Clip for PCB 1.6 mm, 4-40 UNC front spacer

 	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A22440X	241A22540X	
	15						242A22450X	241A22550X	
	25						242A22460X	241A22560X	
	37						242A22470X	241A22570X	
	50						242A27310X	241A27410X	
		09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A22480X	241A22580X
		15						242A22490X	241A22590X
		25						242A22500X	241A22600X
		37						242A22510X	241A22610X
		50						242A27320X	241A27420X
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A22520X	241A22620X	
	15						242A22530X	241A22630X	
	25						242A22540X	241A22640X	
	37						242A22550X	241A22650X	
	50						242A27330X	241A27430X	


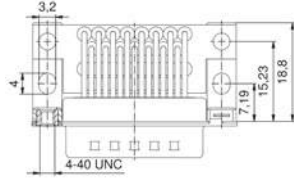
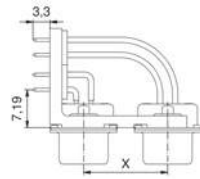
FILTER D-SUB CONNECTORS
C-Filter Dual Port

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

4-40 UNC threaded insert



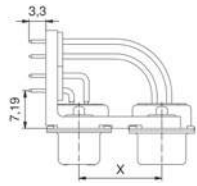
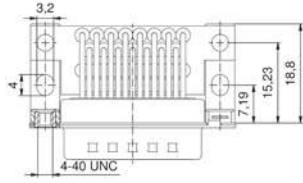
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Part No.	
  	15/15	09/09	15/15	09/09					241A14130X	
	15/15	15/15	15/15	09/09					241A14140X	
	25/25	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	241A14150X
	37/37	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	241A14160X
	15/15	09/09	15/15	09/09					241A14210X	
	15/15	15/15	15/15	09/09					241A14220X	
	25/25	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	241A14230X
	37/37	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	241A14240X
	15/15	09/09	15/15	09/09					241A14170X	
	15/15	15/15	15/15	09/09					241A14180X	
	25/25	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	241A14190X
	37/37	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	241A14200X
	15/15	09/09	15/15	09/09					241A14610X	
	15/15	15/15	15/15	09/09					241A14620X	
	25/25	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	241A14630X
	37/37	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	241A14640X
	15/15	09/09	15/15	09/09					241A14690X	
	15/15	15/15	15/15	09/09					241A14700X	
	25/25	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	241A14710X
	37/37	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	241A14720X
	15/15	09/09	15/15	09/09					241A14650X	
	15/15	15/15	15/15	09/09					241A14660X	
	25/25	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	241A14670X
	37/37	37/37	25/25	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	241A14680X


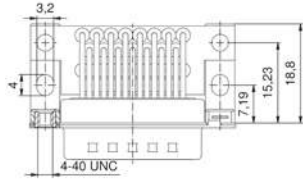
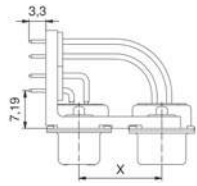
FILTER D-SUB CONNECTORS
C-Filter Dual Port

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

4-40 UNC threaded insert



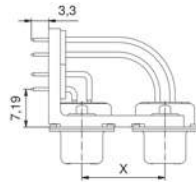
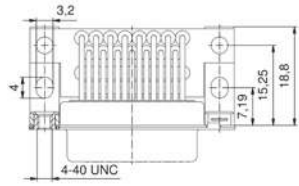
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Part No.	
  	15/15	09/09	15/15	09/09					241A14250X	
	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	370	.625, 15.88	241A14260X	
	37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	370	.625, 15.88	241A14270X
	37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	370	.625, 15.88	241A14280X
	15/15	09/09	15/15	09/09					241A14330X	
	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	830	.625, 15.88	241A14340X	
	37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	830	.625, 15.88	241A14350X
	37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	830	.625, 15.88	241A14360X
	15/15	09/09	15/15	09/09					241A14290X	
	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	1300	.625, 15.88	241A14300X	
	37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	1300	.625, 15.88	241A14310X
	37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	1300	.625, 15.88	241A14320X
	15/15	09/09	15/15	09/09					241A14730X	
	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	370	.750, 19.05	241A14740X	
	37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	370	.750, 19.05	241A14750X
	37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	370	.750, 19.05	241A14760X
	15/15	09/09	15/15	09/09					241A14810X	
	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	830	.750, 19.05	241A14820X	
	37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	830	.750, 19.05	241A14830X
	37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	830	.750, 19.05	241A14840X
15/15	09/09	15/15	09/09					241A14770X		
25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	1300	.750, 19.05	241A14780X		
37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	1300	.750, 19.05	241A14790X	
37/37	25/25	15/15	09/09	75 (UI) / 5 (CSA, VDE)	E202784	3	1300	.750, 19.05	241A14800X	


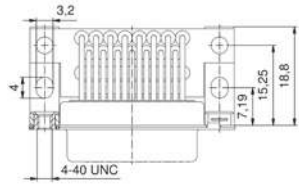
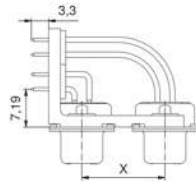
FILTER D-SUB CONNECTORS
C-Filter Dual Port

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

4-40 UNC threaded insert



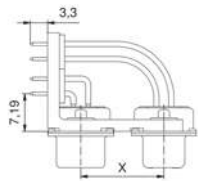
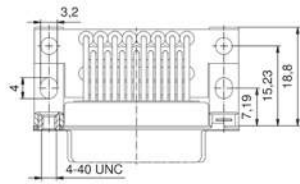
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Part No.		
  	37/37	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	242A14020X	
	15/15	25/25	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	242A14030X
	37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	242A14040X
	37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	242A14050X
	37/37	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	242A14100X	
	15/15	25/25	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	242A14110X
	37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	242A14120X
	37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	242A14130X
	37/37	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	242A14060X	
	15/15	25/25	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	242A14070X
	37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	242A14080X
	37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	242A14090X
	37/37	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	242A14500X	
	15/15	25/25	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	242A14510X
	37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	242A14520X
	37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	242A14530X
	37/37	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	242A14580X	
	15/15	25/25	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	242A14590X
	37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	242A14600X
	37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	242A14610X
37/37	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	242A14540X		
15/15	25/25	15/15	09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	242A14550X	
37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	242A14560X	
37/37	25/25	37/37	25/25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	242A14570X	


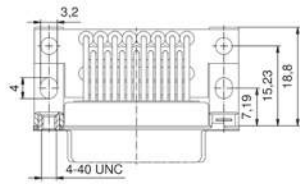
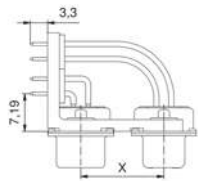
FILTER D-SUB CONNECTORS
C-Filter Dual Port

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

4-40 UNC threaded insert



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


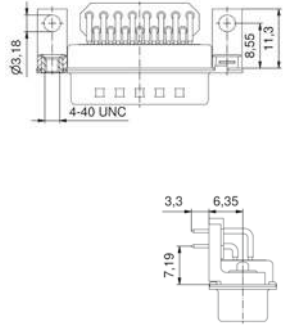
4-40 UNC threaded insert		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Part No.
  	09/09	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	242A14140X
	15/15	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	242A14150X
	25/25	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	242A14160X
	37/37	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	242A14170X
	09/09	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	242A14220X
	15/15	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	242A14230X
	25/25	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	242A14240X
	37/37	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	242A14250X
	09/09	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	242A14180X
	15/15	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	242A14190X
	25/25	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	242A14200X
	37/37	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	242A14210X
	09/09	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	242A14620X
	15/15	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	242A14630X
	25/25	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	242A14640X
	37/37	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	242A14650X
	09/09	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	242A14700X
	15/15	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	242A14710X
	25/25	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	242A14720X
	37/37	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	242A14730X
	09/09	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	242A14660X
	15/15	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	242A14670X
	25/25	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	242A14680X
	37/37	15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	242A14690X

FILTER D-SUB CONNECTORS
LC-Filter Standard


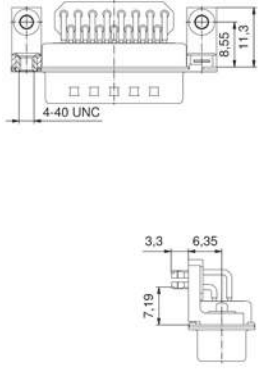
Solder pin, angled, .318"/7.19 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
 	09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A24700X	241A24800X	
	15	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A24710X	241A24810X	
	25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A24720X	241A24820X	
	37	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A24730X	241A24830X	
	09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	242A24740X	241A24840X	
	15	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	242A24750X	241A24850X	
	25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	242A24760X	241A24860X	
	37	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	242A24770X	241A24870X	
	09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A24780X	241A24880X	
	15	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A24790X	241A24890X	
	25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A24800X	241A24900X	
	37	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A24810X	241A24910X	

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


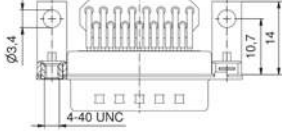
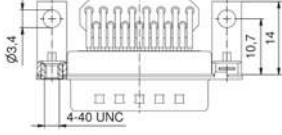
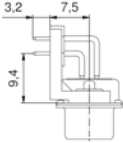
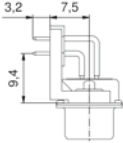
		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
 	09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A24860X	241A24960X	
	15	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A24870X	241A24970X	
	25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A24880X	241A24980X	
	37	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A24890X	241A24990X	
	09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	242A24900X	241A25000X	
	15	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	242A24910X	241A25010X	
	25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	242A24920X	241A25020X	
	37	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	242A24930X	241A25030X	
	09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A24940X	241A25040X	
	15	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A24950X	241A25050X	
	25	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A24960X	241A25060X	
	37	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	242A24970X	241A25070X	

FILTER D-SUB CONNECTORS
LC-Filter Standard


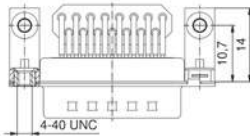
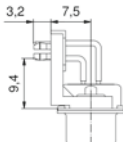
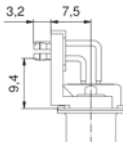
Solder pin, angled, .370" / 9.4 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert

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

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

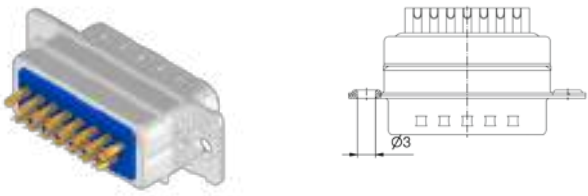
 	09	100	E202784	3	370	242A25340X	241A25440X
	15					242A25350X	241A25450X
	25					242A25360X	241A25460X
	37					242A25370X	241A25470X
	09	100	E202784	3	830	242A25380X	241A25480X
	15					242A25390X	241A25490X
	25					242A25400X	241A25500X
	37					242A25410X	241A25510X
	09	100	E202784	3	1300	242A25420X	241A25520X
	15					242A25430X	241A25530X
	25					242A25440X	241A25540X
	37					242A25450X	241A25550X

FILTER D-SUB CONNECTORS
π-Filter Standard

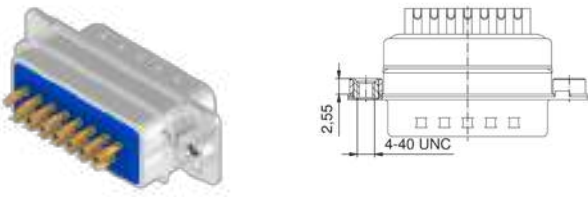
Solder cup
Precision machined contacts, AWG 20

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

Through-hole Ø 3 mm

		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
	09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	2x 370	242A29020X	241A29120X	
	15						242A29030X	241A29130X	
	25						242A29040X	241A29140X	
	37						242A29050X	241A29150X	
	09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	2x 830	242A29060X	241A29160X	
	15						242A29070X	241A29170X	
	25						242A29080X	241A29180X	
	37						242A29090X	241A29190X	
	09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	2x 1300	242A29100X	241A29200X	
	15						242A29110X	241A29210X	
	25						242A29120X	241A29220X	
	37						242A29130X	241A29230X	

4-40 UNC threaded insert

	09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	2x 370	242A29180X	241A29280X
	15						242A29190X	241A29290X
	25						242A29200X	241A29300X
	37						242A29210X	241A29310X
	09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	2x 830	242A29220X	241A29320X
	15						242A29230X	241A29330X
	25						242A29240X	241A29340X
	37						242A29250X	241A29350X
	09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	2x 1300	242A29260X	241A29360X
	15						242A29270X	241A29370X
	25						242A29280X	241A29380X
	37						242A29290X	241A29390X

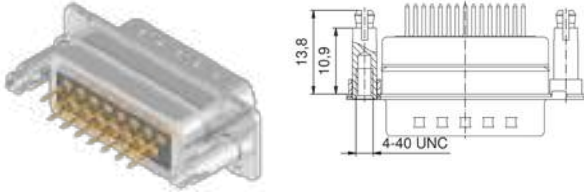
FILTER D-SUB CONNECTORS
π-Filter Standard

Solder pin, straight
Precision machined contacts

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

No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A26300X	241A26400X
15						242A26310X	241A26410X
25						242A26320X	241A26420X
37						242A26330X	241A26430X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 830	242A26340X	241A26440X
15						242A26350X	241A26450X
25						242A26360X	241A26460X
37						242A26370X	241A26470X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 1300	242A26380X	241A26480X
15						242A26390X	241A26490X
25						242A26400X	241A26500X
37						242A26410X	241A26510X

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



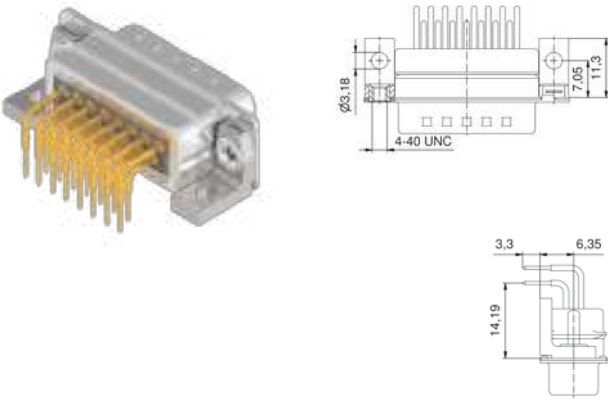
FILTER D-SUB CONNECTORS
π-Filter Standard

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

4-40 UNC threaded insert

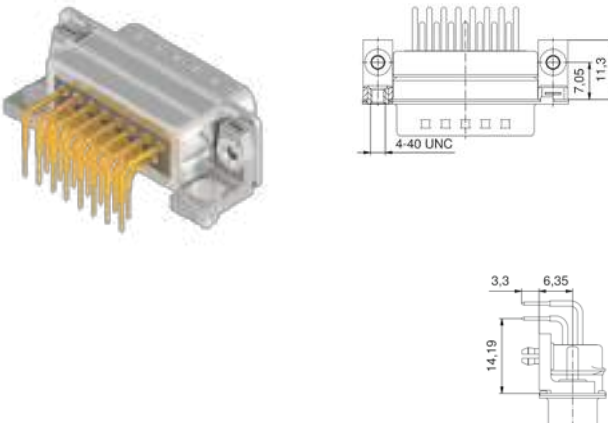
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A25980X	241A26080X
15						242A25990X	241A26090X
25						242A26000X	241A26100X
37						242A26010X	241A26110X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 830	242A26020X	241A26120X
15						242A26030X	241A26130X
25						242A26040X	241A26140X
37						242A26050X	241A26150X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 1300	242A26060X	241A26160X
15						242A26070X	241A26170X
25						242A26080X	241A26180X
37						242A26090X	241A26190X

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



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

No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A26140X	241A26240X
15						242A26150X	241A26250X
25						242A26160X	241A26260X
37						242A26170X	241A26270X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 830	242A26180X	241A26280X
15						242A26190X	241A26290X
25						242A26200X	241A26300X
37						242A26210X	241A26310X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 1300	242A26220X	241A26320X
15						242A26230X	241A26330X
25						242A26240X	241A26340X
37						242A26250X	241A26350X

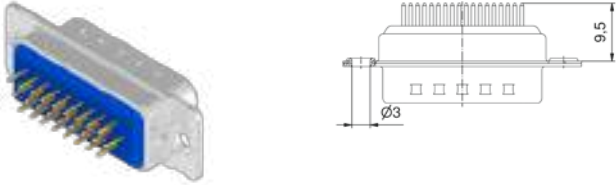


FILTER D-SUB CONNECTORS
C-Filter High Density

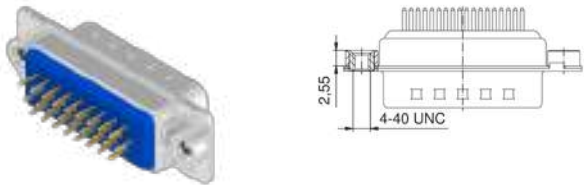
Solder pin, straight
Precision machined contacts

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

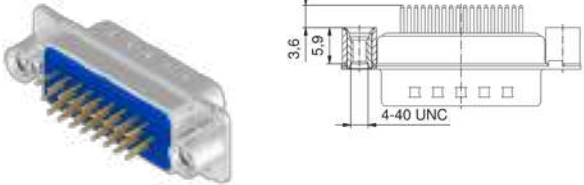
Through-hole Ø 3 mm

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

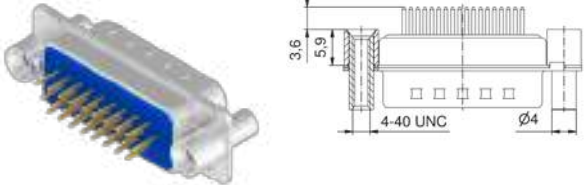
4-40 UNC threaded insert

	15	3 (UL VDE) / 2.5 (CSA)	100	E202784	3	370	242A18060X	241A16460X
	26						242A18070X	241A16470X
	44						242A18080X	241A16480X
	62						242A18090X	241A16490X
	15	3 (UL VDE) / 2.5 (CSA)	100	E202784	3	830	242A18100X	241A16500X
	26						242A18110X	241A16510X
	44						242A18120X	241A16520X
	62						242A18130X	241A16530X

4-40 UNC threaded rear spacer

	15	3 (UL VDE) / 2.5 (CSA)	100	E202784	3	370	242A18220X	241A16620X
	26						242A18230X	241A16630X
	44						242A18240X	241A16640X
	62						242A18250X	241A16650X
	15	3 (UL VDE) / 2.5 (CSA)	100	E202784	3	830	242A18260X	241A16660X
	26						242A18270X	241A16670X
	44						242A18280X	241A16680X
	62						242A18290X	241A16690X

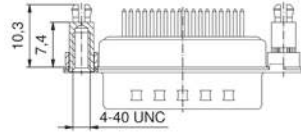
4-40 UNC front, threaded rear spacer

	15	3 (UL VDE) / 2.5 (CSA)	100	E202784	3	370	242A18380X	241A16780X
	26						242A18390X	241A16790X
	44						242A18400X	241A16800X
	62						242A18410X	241A16810X
	15	3 (UL VDE) / 2.5 (CSA)	100	E202784	3	830	242A18420X	241A16820X
	26						242A18430X	241A16830X
	44						242A18440X	241A16840X
	62						242A18450X	241A16850X

FILTER D-SUB CONNECTORS
C-Filter High Density

Solder pin, straight
Precision machined contacts

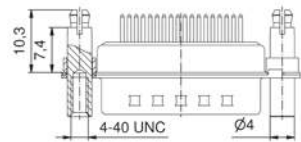
4-40 UNC threaded rear spacer clip for PCB 1.6 mm



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

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

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

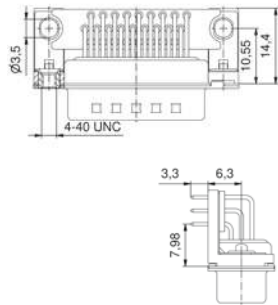


15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A20770X	241A20920X
26	3 (UL, VDE) / 2.5 (CSA)					242A20780X	241A20930X
44	3 (UL, VDE) / 2.5 (CSA)					242A20790X	241A20940X
62	3 (UL, VDE) / 2.5 (CSA)					242A20800X	241A20950X
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	242A20810X	241A20960X
26	3 (UL, VDE) / 2.5 (CSA)					242A20820X	241A20970X
44	3 (UL, VDE) / 2.5 (CSA)					242A20830X	241A20980X
62	3 (UL, VDE) / 2.5 (CSA)					242A20840X	241A20990X

FILTER D-SUB CONNECTORS
C-Filter High Density

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

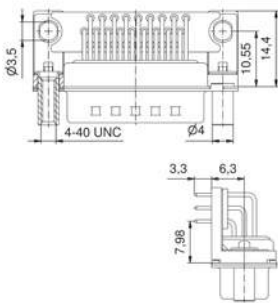
Grounding strap, 4-40 UNC threaded insert



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

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

Grounding strap, 4-40 UNC front spacer


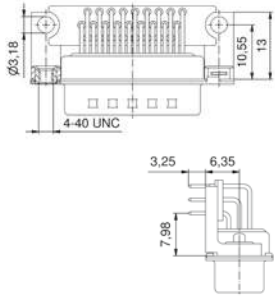


15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A18850X	241A17260X
26	3 (UL, VDE) / 2.5 (CSA)					242A18860X	241A17270X
44	3 (UL, VDE) / 2.5 (CSA)					242A18870X	241A17280X
62	3 (UL, VDE) / 2.5 (CSA)					242A18880X	241A17290X
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	242A18890X	241A17300X
26	3 (UL, VDE) / 2.5 (CSA)					242A18900X	241A17310X
44	3 (UL, VDE) / 2.5 (CSA)					242A18910X	241A17320X
62	3 (UL, VDE) / 2.5 (CSA)					242A18920X	241A17330X


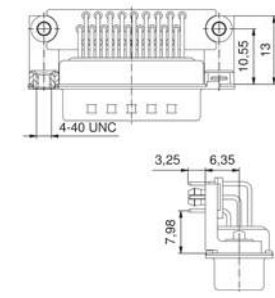
FILTER D-SUB CONNECTORS
C-Filter High Density

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

4-40 UNC threaded insert

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


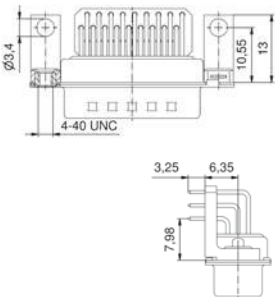
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

 	15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A19490X	241A17900X
	26						242A19500X	241A17910X
	44						242A19510X	241A17920X
	62						242A19520X	241A17930X
	15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	242A19530X	241A17940X
	26						242A19540X	241A17950X
	44						242A19550X	241A17960X
	62						242A19560X	241A17970X


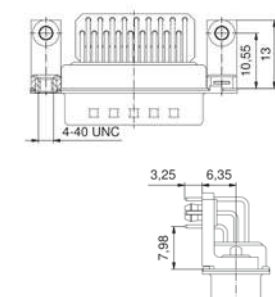
FILTER D-SUB CONNECTORS
LC-Filter High Density

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

4-40 UNC threaded insert

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

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

 	15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A25780X	241A25880X
	26						242A25790X	241A25890X
	44						242A25800X	241A25900X
	62						242A25810X	241A25910X
	15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	242A25820X	241A25920X
	26						242A25830X	241A25930X
	44						242A25840X	241A25940X
	62						242A25850X	241A25950X

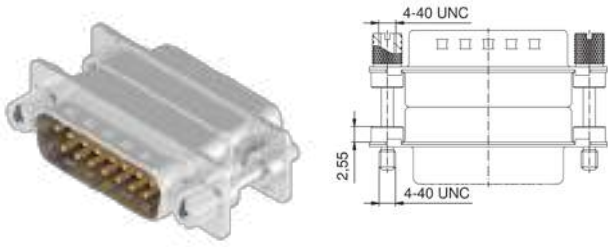
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

FILTER D-SUB CONNECTORS
C-Filter Full Metal Adapter

Socket connector - Plug connector
Precision machined contacts

4-40 UNC jack screw



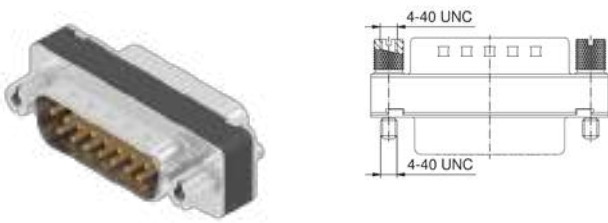
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	243A12200X
15	243A12210X					
25	243A12220X					
37	243A12230X					
09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	243A12240X
15	243A12250X					
25	243A12260X					
37	243A12270X					
09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	243A12280X
15	243A12290X					
25	243A12300X					
37	243A12310X					

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

FILTER D-SUB CONNECTORS
C-Filter Adapter

Socket connector - Plug connector, low profile
Precision machined contacts

4-40 UNC jack screw



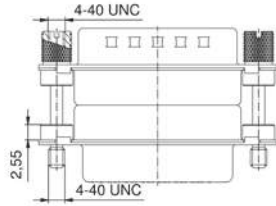
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	243A10010X
15	243A10020X					
25	243A10030X					
37	243A10040X					
50	243A10130X	100	E202784	3	830	243A10090X
09	243A10100X					
15	243A10110X					
25	243A10120X					
37	243A10150X	100	E202784	3	1300	243A10050X
09	243A10060X					
15	243A10070X					
25	243A10080X					
37	243A10140X					

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

FILTER D-SUB CONNECTORS
π-Filter Full Metal Adapter

Socket connector - Plug connector
 Precision machined contacts

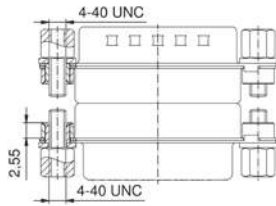
4-40 UNC jack screw



No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 370	MAP1XAAAR02R741X
15	MAP2XAAAR02R741X					
25	MAP3XAAAR02R741X					
37	MAP4XAAAR02R741X					
09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 830	MAP1XAAAR02R162X
15	MAP2XAAAR02R162X					
25	MAP3XAAAR02R162X					
37	MAP4XAAAR02R162X					
09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 1300	MAP1XAAAR02R262X
15	MAP2XAAAR02R262X					
25	MAP3XAAAR02R262X					
37	MAP4XAAAR02R262X					

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

4-40 UNC hex bolt

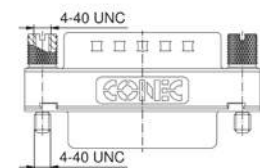


09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 370	MAP1XAAAH02R741X
15	MAP2XAAAH02R741X					
25	MAP3XAAAH02R741X					
37	MAP4XAAAH02R741X					
09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 830	MAP1XAAAH02R162X
15	MAP2XAAAH02R162X					
25	MAP3XAAAH02R162X					
37	MAP4XAAAH02R162X					
09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 1300	MAP1XAAAH02R262X
15	MAP2XAAAH02R262X					
25	MAP3XAAAH02R262X					
37	MAP4XAAAH02R262X					

FILTER D-SUB CONNECTORS
C-Filter Adapter High Density

Socket connector - Plug connector, low profile
 Precision machined contacts

4-40 UNC jack screw




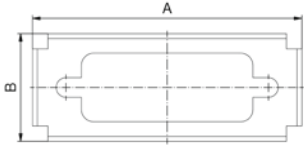
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No.
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	243A11640X
26						243A11650X
44						243A11660X
62						243A11670X
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	243A11680X
26						243A11690X
44						243A11700X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

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

FILTER D-SUB CONNECTORS
Accessories

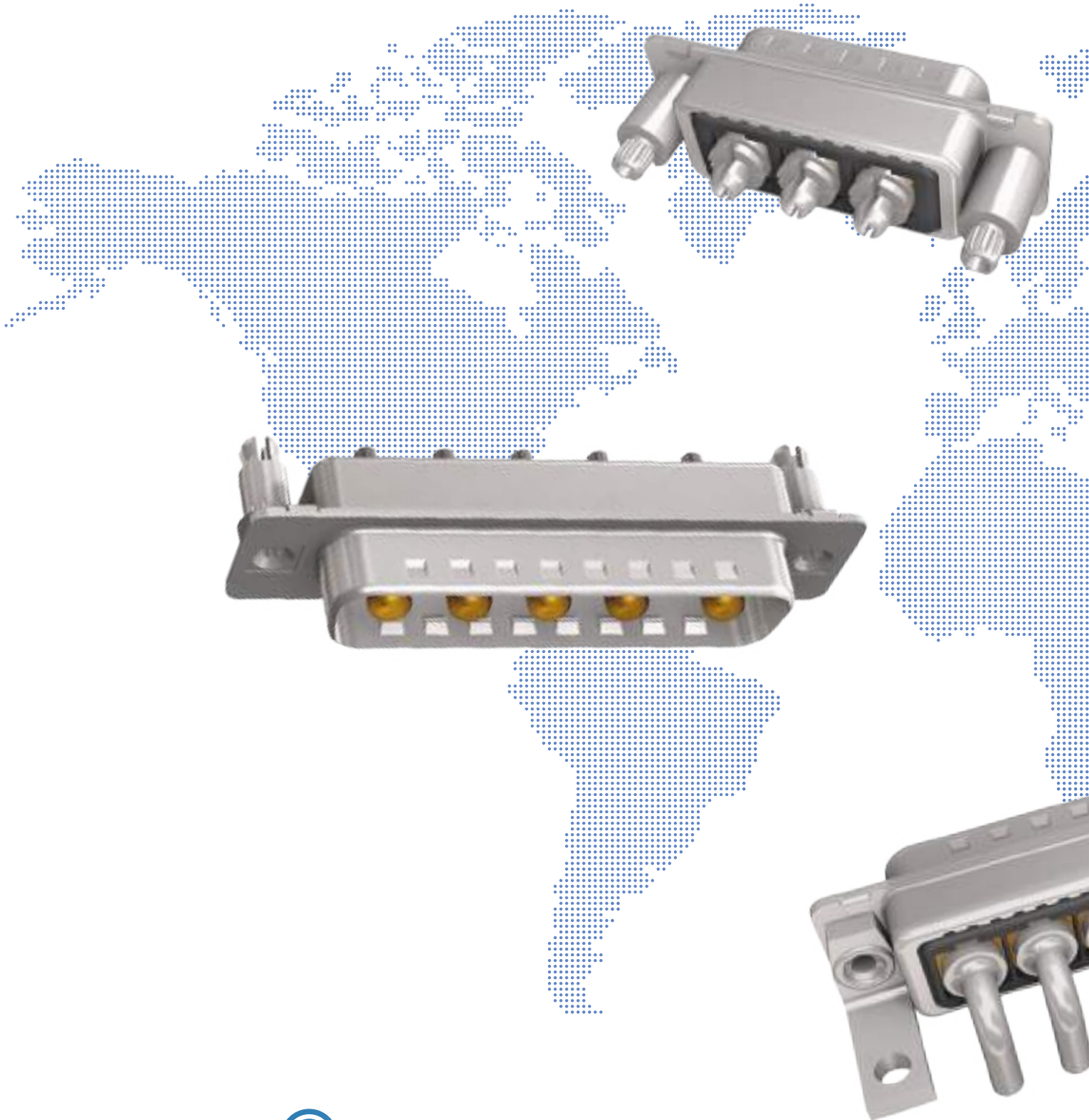
EMI/RFI shielding frames

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

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

SECTION 4

FILTER COMBINATION D-SUB CONNECTORS





FILTER COMBINATION D-SUB CONNECTORS

Part Number Creator

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

Shell size and design

1	= 2F2C (2W2C)*	= Coded
2	= 3F3S (3W3S)*	= Standard
2	= 3F3C (3W3C)*	= Coded
3	= 5F5S (5W5S)*	= Standard
4	= 8F8S (8W8S)*	= Standard

*F = filtered

Contact type

P	= Plug connector
S	= Socket connector

Plaiting code/Quality class for contacts

A	= Quality class 3	= 50 mating cycles
C	= Quality class 1	= 500 mating cycles* *on request

Capacitance

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

Dielectric with standing voltage

S	= 707 VDC standard DWV	U	= 1500 VDC ultra high DWV
H	= 1020 VDC high DWV		

Termination for high current contacts

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

Mounting style

A1	= Riveted	E4	= 4-40 UNC threaded rear spacer with PCB clip, PCB .091"/2.30 mm
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
AA	= Threaded rear spacer with 4-40 UNC press fit	F4	= 4-40 UNC front/threaded rear spacer with PCB clip, PCB .091"/2.30 mm
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
D4	= 4-40 UNC front/threaded rear spacer with PCB clip .091"/2.30 mm	L4	= Metal bracket, 4-40 UNC threaded lock /PCB clip
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

FILTER COMBINATION D-SUB CONNECTORS

Product specification

Basic Material	Variations 2W2C – 3W3C – 3W3 – 5W5 – 8W8			
Contacts	CU alloy			
Contact plating	Mating area gold plated over nickel / termination area tin or gold plated			
Insulator	PBT GF UL 94 V-0			
Shell	Steel tin plated			
Technical Data				
Dielectric with standing voltage	Standard DWV	707 VDC		
	High DWV	1020 VDC		
	Ultra High DWV	1500 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 mΩ prior to stressing, ΔR max. 2 mΩ after stressing refer to IEC 60807-2			
Insulation resistance	≥1 GΩ			
Capacitor values For other capacitance values please contact the factory.	1.3 nF ± 20 % tolerance	12 nF ± 20 % tolerance		
	5 nF ± 20 % tolerance	47 nF ± 20 % tolerance		
	10 nF ± 20 % tolerance	100 nF ± 20 % tolerance		
	other capacitor values on request			
Operating temperature	-55 °C to + 125 °C			
Humidity	40 °C / 85 % relative humidity / RH			
Insertion force per contact	7 N			
Extraction force per contact	approx 5 N			
Quality class	A = Quality class 3 = 50 mating cycles			
	C = Quality class 1 = 500 mating cycles			
Solder parameter	Preheating		Solder terminal dipping parameters	
	max. Temperature	Duration	max. solder bath Temperature	max. Terminal Immersion Time
Recommended wave-solder parameters	120 °C	120 s	260 °C	5 s

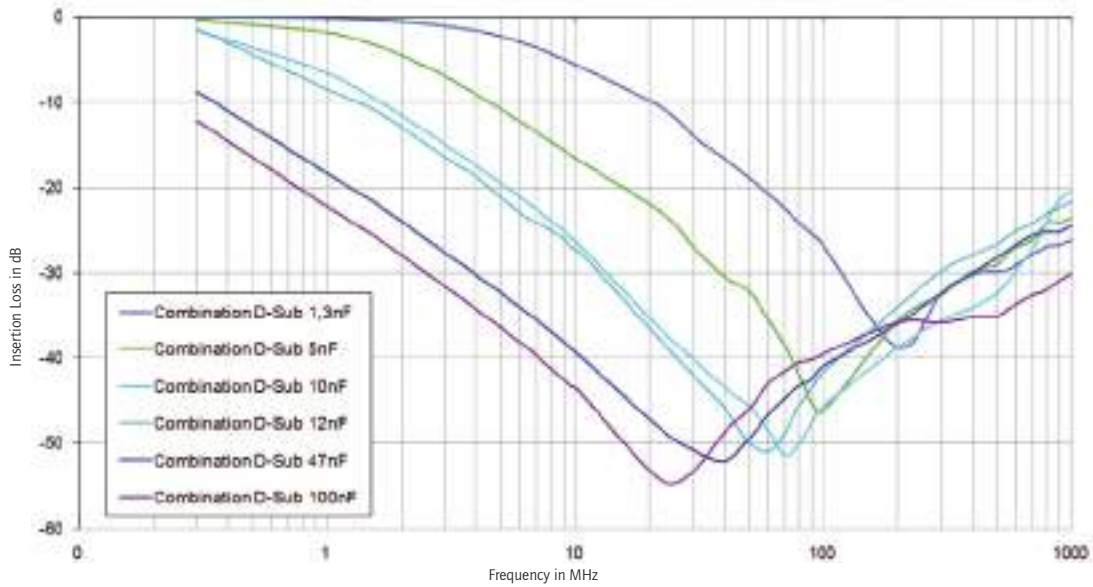
Technical specifications are subject to change without notice.

FILTER COMBINATION D-SUB CONNECTORS

Insertion loss

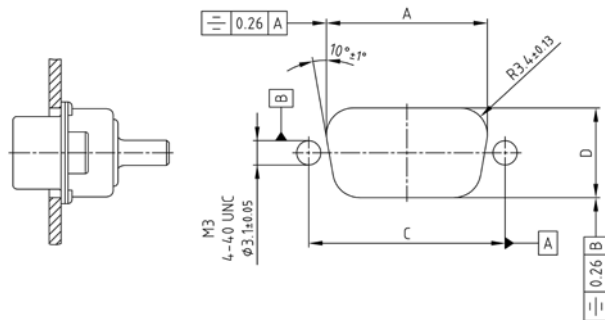
C-Filter

Typical Insertion Loss

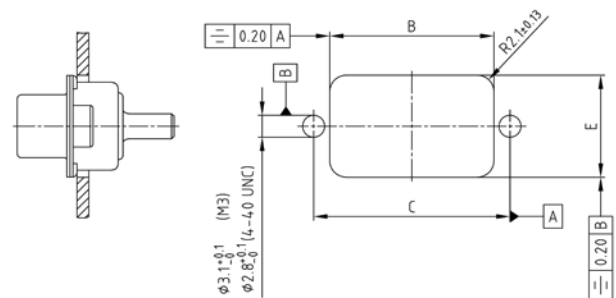


Panel cut-out

Back panel mounting



Front panel mounting



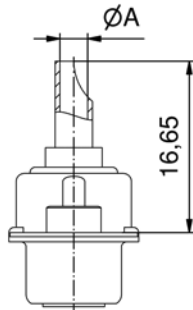
Shell size	Layout	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
1	2W2C	20.50	20.90	25.00	11.40	13.00
2	3W3S, 3W3C	28.80	29.20	33.30	11.40	13.00
3	5W5S	42.50	42.90	47.04	11.40	13.00
4	8W8S	59.10	59.40	63.50	11.40	13.00

Technical specifications are subject to change without notice.

FILTER COMBINATION D-SUB CONNECTORS

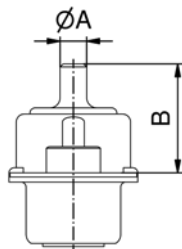
Termination code high power contacts

Solder cup



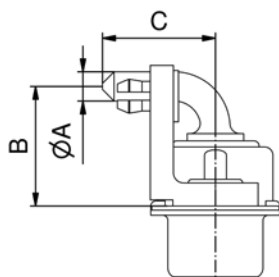
Termination Code	Current rating	AWG	Ø A [mm]
41	10 A	16-20	1.80
42	20 A	12-14	2.70
43	30 A	10-12	3.50
44	40 A	8-10	4.80

Solder pin straight



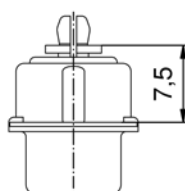
Termination Code	Current rating	Ø A [mm]	B ± 0.3 [mm]	PCB thickness [mm]	Hole diameter in PCB [mm]
48	20 A	1.95	9.65	1.6	2.30 ± 0.1
49	20 A	2.60	10.65	1.6	3.00 ± 0.1
50	20 A	2.85	10.05	1.6	3.20 ± 0.1
51	30 A	3.18	12.85	1.6/2.3/3.2	3.60 ± 0.1
52	40 A	3.75	11.10	1.6/2.3/3.2	4.10 ± 0.1

Solder pin angled

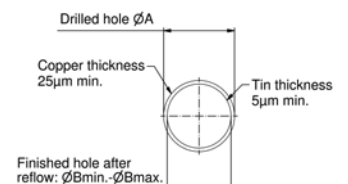


Termination Code	Current rating	Ø A [mm]	B ± 0.3 [mm]	C ± 0.3 [mm]	Hole diameter in PCB [mm]
56	20 A	2.85	11.65	11.00	3.20 ± 0.1
57	30 A	3.18	20.35	9.50	3.60 ± 0.1
58	40 A	3.75	11.65	11.00	4.10 ± 0.1

Press-fit contact



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

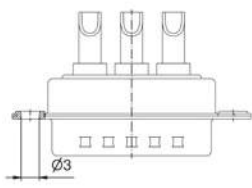


Technical specifications are subject to change without notice.

FILTER COMBINATION D-SUB CONNECTORS C-Filter

Solder cup
Precision machined contacts, AWG 8-20

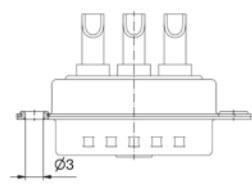
Through-hole Ø 3 mm



For other capacitance values refer to the part number creator.

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

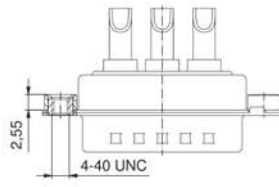
Through-hole Ø 3 mm, coded version



For other capacitance values refer to the part number creator.

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

4-40 UNC threaded insert



For other capacitance values refer to the part number creator.

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

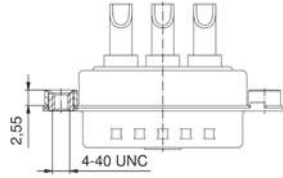
Shell: Steel tin plated
Quality class: 3 (A) = 50 mating cycles
On request:
• higher DWV
• Quality class: 1 (C) = 500 mating cycles
• M3 thread

No. of poles	Current rating [A]	Working voltage [VDC]	AWG	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	10	100	16-20	47	E228329	3	3F3SSA22S41A10X	3F3SPA22S41A10X
	20		12-14				3F3SSA22S42A10X	3F3SPA22S42A10X
	30		10-12				3F3SSA22S43A10X	3F3SPA22S43A10X
	40		8-10				3F3SSA22S44A10X	3F3SPA22S44A10X
5W5	10	100	16-20	47	E228329	3	5F5SSA22S41A10X	5F5SPA22S41A10X
	20		12-14				5F5SSA22S42A10X	5F5SPA22S42A10X
	30		10-12				5F5SSA22S43A10X	5F5SPA22S43A10X
	40		8-10				5F5SSA22S44A10X	5F5SPA22S44A10X
8W8	10	100	16-20	47	E228329	3	8F8SSA22S41A10X	8F8SPA22S41A10X
	20		12-14				8F8SSA22S42A10X	8F8SPA22S42A10X
	30		10-12				8F8SSA22S43A10X	8F8SPA22S43A10X
	40		8-10				8F8SSA22S44A10X	8F8SPA22S44A10X
2W2C	10	100	16-20	47	E228329	3	2F2CSA22S41A10X	2F2CPA22S41A10X
	20		12-14				2F2CSA22S42A10X	2F2CPA22S42A10X
	30		10-12				2F2CSA22S43A10X	2F2CPA22S43A10X
	40		8-10				2F2CSA22S44A10X	2F2CPA22S44A10X
3W3C	10	100	16-20	47	E228329	3	3F3CSA22S41A10X	3F3CPA22S41A10X
	20		12-14				3F3CSA22S42A10X	3F3CPA22S42A10X
	30		10-12				3F3CSA22S43A10X	3F3CPA22S43A10X
	40		8-10				3F3CSA22S44A10X	3F3CPA22S44A10X
3W3	10	100	16-20	47	E228329	3	3F3SSA22S41A30X	3F3SPA22S41A30X
	20		12-14				3F3SSA22S42A30X	3F3SPA22S42A30X
	30		10-12				3F3SSA22S43A30X	3F3SPA22S43A30X
	40		8-10				3F3SSA22S44A30X	3F3SPA22S44A30X
5W5	10	100	16-20	47	E228329	3	5F5SSA22S41A30X	5F5SPA22S41A30X
	20		12-14				5F5SSA22S42A30X	5F5SPA22S42A30X
	30		10-12				5F5SSA22S43A30X	5F5SPA22S43A30X
	40		8-10				5F5SSA22S44A30X	5F5SPA22S44A30X
8W8	10	100	16-20	47	E228329	3	8F8SSA22S41A30X	8F8SPA22S41A30X
	20		12-14				8F8SSA22S42A30X	8F8SPA22S42A30X
	30		10-12				8F8SSA22S43A30X	8F8SPA22S43A30X
	40		8-10				8F8SSA22S44A30X	8F8SPA22S44A30X

FILTER COMBINATION D-SUB CONNECTORS C-Filter

Solder cup
Precision machined contacts, AWG 8-20

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

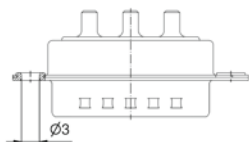
Shell: Steel tin plated
Quality class: 3 (A) = 50 mating cycles
On request:
• higher DWV
• Quality class: 1 (C) = 500 mating cycles
• M3 thread

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

FILTER COMBINATION D-SUB CONNECTORS C-Filter

Solder pin straight
Precision machined contacts

Through-hole Ø 3 mm



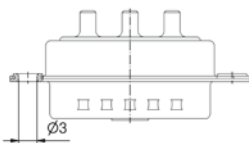
For other capacitance values refer to the part number creator.

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

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

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

Through-hole Ø 3 mm, coded version



For other capacitance values refer to the part number creator.


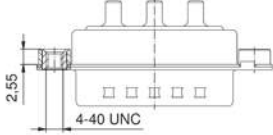
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

2W2C	20	100	1.95	E228329	3	2F2CSA22S48A10X	2F2CPA22S48A10X		
			2.60			2F2CSA22S49A10X	2F2CPA22S49A10X		
	30	2.85	2F2CSA22S50A10X			2F2CPA22S50A10X			
		3.18	2F2CSA22S51A10X			2F2CPA22S51A10X			
	40	3.75	2F2CSA22S52A10X			2F2CPA22S52A10X			
		3W3C	20			100	E228329	3	3F3CSA22S48A10X
	2.60								3F3CSA22S49A10X
	30		2.85			3F3CSA22S50A10X			3F3CPA22S50A10X
3.18			3F3CSA22S51A10X	3F3CPA22S51A10X					
40	3.75		3F3CSA22S52A10X	3F3CPA22S52A10X					

FILTER COMBINATION D-SUB CONNECTORS C-Filter

Solder pin straight
Precision machined contacts

4-40 UNC threaded insert


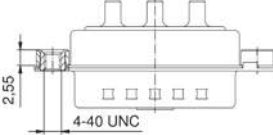
		No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	3W3	20	1.95	100	2.85	47	E228329	3	3F3SSA22S48A30X	3F3SPA22S48A30X
			2.60						3F3SSA22S49A30X	3F3SPA22S49A30X
		3.18	3F3SSA22S50A30X	3F3SPA22S50A30X						
		3.75	3F3SSA22S51A30X	3F3SPA22S51A30X						
	5W5	20	1.95	100	2.85	47	E228329	3	5F5SSA22S48A30X	5F5SPA22S48A30X
			2.60						5F5SSA22S49A30X	5F5SPA22S49A30X
		3.18	5F5SSA22S50A30X	5F5SPA22S50A30X						
		3.75	5F5SSA22S51A30X	5F5SPA22S51A30X						
	8W8	20	1.95	100	2.85	47	E228329	3	8F8SSA22S48A30X	8F8SPA22S48A30X
			2.60						8F8SSA22S49A30X	8F8SPA22S49A30X
		3.18	8F8SSA22S50A30X	8F8SPA22S50A30X						
		3.75	8F8SSA22S51A30X	8F8SPA22S51A30X						
	20	1.95	100	2.85	47	E228329	3	8F8SSA22S52A30X	8F8SPA22S52A30X	
		2.60						8F8SSA22S49A30X	8F8SPA22S49A30X	
	3.18	8F8SSA22S50A30X	8F8SPA22S50A30X							
	3.75	8F8SSA22S51A30X	8F8SPA22S51A30X							

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

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

4-40 UNC threaded insert, coded version

		No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	2W2C	20	1.95	100	2.85	47	E228329	3	2F2CSA22S48A30X	2F2CPA22S48A30X
			2.60						2F2CSA22S49A30X	2F2CPA22S49A30X
		3.18	2F2CSA22S50A30X	2F2CPA22S50A30X						
		3.75	2F2CSA22S51A30X	2F2CPA22S51A30X						
	3W3C	20	1.95	100	2.85	47	E228329	3	3F3CSA22S48A30X	3F3CPA22S48A30X
			2.60						3F3CSA22S49A30X	3F3CPA22S49A30X
		3.18	3F3CSA22S50A30X	3F3CPA22S50A30X						
		3.75	3F3CSA22S51A30X	3F3CPA22S51A30X						
		20	1.95	100	2.85	47	E228329	3	3F3CSA22S52A30X	3F3CPA22S52A30X
			2.60						3F3CSA22S49A30X	3F3CPA22S49A30X
		3.18	3F3CSA22S50A30X	3F3CPA22S50A30X						
		3.75	3F3CSA22S51A30X	3F3CPA22S51A30X						

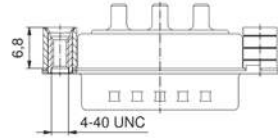
For other capacitance values refer to the part number creator.

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

FILTER COMBINATION D-SUB CONNECTORS C-Filter

Solder pin straight
Precision machined contacts

4-40 UNC threaded rear spacer



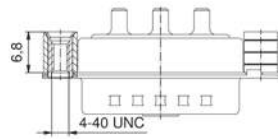
For other capacitance values refer to the part number creator.

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact			
3W3	20	100	2.85	1.95	E228329	3	3F3SSA22S48A50X	3F3SPA22S48A50X			
				2.60			3F3SSA22S49A50X	3F3SPA22S49A50X			
	30	40	3.18	2.85			3F3SSA22S50A50X	3F3SPA22S50A50X			
				3.18			3F3SSA22S51A50X	3F3SPA22S51A50X			
	40	3.75	3.75	2.85			3F3SSA22S52A50X	3F3SPA22S52A50X			
				3.75			3F3SSA22S52A50X	3F3SPA22S52A50X			
	5W5	20	100	2.85			1.95	E228329	3	5F5SSA22S48A50X	5F5SPA22S48A50X
							2.60			5F5SSA22S49A50X	5F5SPA22S49A50X
30		40	3.18	2.85	5F5SSA22S50A50X	5F5SPA22S50A50X					
				3.18	5F5SSA22S51A50X	5F5SPA22S51A50X					
40		3.75	3.75	2.85	5F5SSA22S52A50X	5F5SPA22S52A50X					
				3.75	5F5SSA22S52A50X	5F5SPA22S52A50X					
8W8		20	100	2.85	1.95	E228329	3			8F8SSA22S48A50X	8F8SPA22S48A50X
					2.60					8F8SSA22S49A50X	8F8SPA22S49A50X
	30	40	3.18	2.85	8F8SSA22S50A50X			8F8SPA22S50A50X			
				3.18	8F8SSA22S51A50X			8F8SPA22S51A50X			
	40	3.75	3.75	2.85	8F8SSA22S52A50X			8F8SPA22S52A50X			
				3.75	8F8SSA22S52A50X			8F8SPA22S52A50X			

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

4-40 UNC threaded rear spacer, coded version



For other capacitance values refer to the part number creator.

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact			
2W2C	20	100	2.85	1.95	E228329	3	2F2CSA22S48A50X	2F2CPA22S48A50X			
				2.60			2F2CSA22S49A50X	2F2CPA22S49A50X			
	30	40	3.18	2.85			2F2CSA22S50A50X	2F2CPA22S50A50X			
				3.18			2F2CSA22S51A50X	2F2CPA22S51A50X			
	40	3.75	3.75	2.85			2F2CSA22S52A50X	2F2CPA22S52A50X			
				3.75			2F2CSA22S52A50X	2F2CPA22S52A50X			
	3W3C	20	100	2.85			1.95	E228329	3	3F3CSA22S48A50X	3F3CPA22S48A50X
							2.60			3F3CSA22S49A50X	3F3CPA22S49A50X
30		40	3.18	2.85	3F3CSA22S50A50X	3F3CPA22S50A50X					
				3.18	3F3CSA22S51A50X	3F3CPA22S51A50X					
40		3.75	3.75	2.85	3F3CSA22S52A50X	3F3CPA22S52A50X					
				3.75	3F3CSA22S52A50X	3F3CPA22S52A50X					

FILTER COMBINATION D-SUB CONNECTORS C-Filter

Solder pin straight
Precision machined contacts

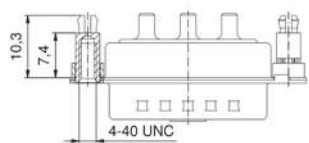
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

No. of poles		Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	100	1.95	47	E228329	3	3F3SSA22S48E20X	3F3SPA22S48E20X	
			2.60				3F3SSA22S49E20X	3F3SPA22S49E20X	
	2.85	3F3SSA22S50E20X	3F3SPA22S50E20X						
	3.18	3F3SSA22S51E20X	3F3SPA22S51E20X						
5W5	20	100	1.95	47	E228329	3	5F5SSA22S48E20X	5F5SPA22S48E20X	
			2.60				5F5SSA22S49E20X	5F5SPA22S49E20X	
	2.85	5F5SSA22S50E20X	5F5SPA22S50E20X						
	3.18	5F5SSA22S51E20X	5F5SPA22S51E20X						
8W8	20	100	1.95	47	E228329	3	8F8SSA22S48E20X	8F8SPA22S48E20X	
			2.60				8F8SSA22S49E20X	8F8SPA22S49E20X	
	2.85	8F8SSA22S50E20X	8F8SPA22S50E20X						
	3.18	8F8SSA22S51E20X	8F8SPA22S51E20X						
40	20	100	3.75	47	E228329	3	3F3SSA22S52E20X	3F3SPA22S52E20X	
			3.75				3F3SSA22S52E20X	3F3SPA22S52E20X	
	3.75	5F5SSA22S52E20X	5F5SPA22S52E20X						
	3.75	8F8SSA22S52E20X	8F8SPA22S52E20X						

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

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



For other capacitance values refer to the part number creator.

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

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

No. of poles		Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	100	1.95	47	E228329	3	2F2CSA22S48E20X	2F2CPA22S48E20X	
			2.60				2F2CSA22S49E20X	2F2CPA22S49E20X	
	2.85	2F2CSA22S50E20X	2F2CPA22S50E20X						
	3.18	2F2CSA22S51E20X	2F2CPA22S51E20X						
3W3C	20	100	1.95	47	E228329	3	3F3CSA22S48E20X	3F3CPA22S48E20X	
			2.60				3F3CSA22S49E20X	3F3CPA22S49E20X	
	2.85	3F3CSA22S50E20X	3F3CPA22S50E20X						
	3.18	3F3CSA22S51E20X	3F3CPA22S51E20X						
40	20	100	3.75	47	E228329	3	3F3CSA22S52E20X	3F3CPA22S52E20X	
			3.75				3F3CSA22S52E20X	3F3CPA22S52E20X	
	3.75	3F3CSA22S52E20X	3F3CPA22S52E20X						
	3.75	3F3CSA22S52E20X	3F3CPA22S52E20X						

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

No. of poles		Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact	
3W3	30	100	3.18	47	E228329	3	3F3SSA22S51E40X	3F3SPA22S51E40X		
	40		3.75				3F3SSA22S52E40X	3F3SPA22S52E40X		
5W5	30	100	3.18	47			E228329	3	5F5SSA22S51E40X	5F5SPA22S51E40X
	40		3.75						5F5SSA22S52E40X	5F5SPA22S52E40X
8W8	30	100	3.18	47	E228329	3			8F8SSA22S51E40X	8F8SPA22S51E40X
	40		3.75						8F8SSA22S52E40X	8F8SPA22S52E40X

For other capacitance values refer to the part number creator.

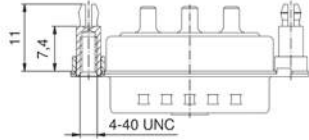
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

FILTER COMBINATION D-SUB CONNECTORS C-Filter

Solder pin straight
Precision machined contacts

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

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

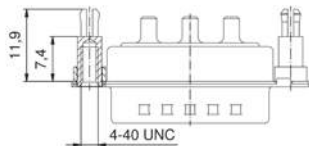


For other capacitance values refer to the part number creator.

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	30	3.18	47	E228329	3	3	2F2CSA22S51E40X	2F2CPA22S51E40X
	100	47					2F2CSA22S52E40X	2F2CPA22S52E40X
	40	3.75					2F2CSA22S52E40X	2F2CPA22S52E40X
3W3C	30	3.18	47	E228329	3	3	3F3CSA22S51E40X	3F3CPA22S51E40X
	100	47					3F3CSA22S52E40X	3F3CPA22S52E40X
	40	3.75					3F3CSA22S52E40X	3F3CPA22S52E40X

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

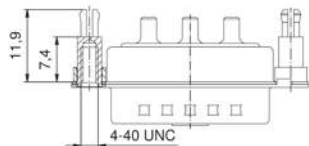


For other capacitance values refer to the part number creator.

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

3W3	30	3.18	47	E228329	3	3	3F3SSA22S51E60X	3F3SPA22S51E60X
	100	47					3F3SSA22S52E60X	3F3SPA22S52E60X
	40	3.75					3F3SSA22S52E60X	3F3SPA22S52E60X
5W5	30	3.18	47	E228329	3	3	5F5SSA22S51E60X	5F5SPA22S51E60X
	100	47					5F5SSA22S52E60X	5F5SPA22S52E60X
	40	3.75					5F5SSA22S52E60X	5F5SPA22S52E60X
8W8	30	3.18	47	E228329	3	3	8F8SSA22S51E60X	8F8SPA22S51E60X
	100	47					8F8SSA22S52E60X	8F8SPA22S52E60X
	40	3.75					8F8SSA22S52E60X	8F8SPA22S52E60X

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



For other capacitance values refer to the part number creator.

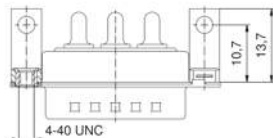
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

2W2C	30	3.18	47	E228329	3	3	2F2CSA22S51E60X	2F2CPA22S51E60X
	100	47					2F2CSA22S52E60X	2F2CPA22S52E60X
	40	3.75					2F2CSA22S52E60X	2F2CPA22S52E60X
3W3C	30	3.18	47	E228329	3	3	3F3CSA22S51E60X	3F3CPA22S51E60X
	100	47					3F3CSA22S52E60X	3F3CPA22S52E60X
	40	3.75					3F3CSA22S52E60X	3F3CPA22S52E60X

FILTER COMBINATION D-SUB CONNECTORS C-Filter

Solder pin angled
Precision machined contacts, metal bracket

4-40 UNC threaded insert



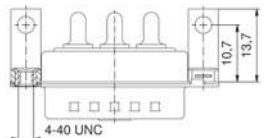
For other capacitance values refer to the part number creator.

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

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	285	3.20	47	E228329	3	3F3SSA22S56K20X	3F3SPA22S56K20X
	30	100					3F3SSA22S57K20X	3F3SPA22S57K20X
	40	3.75					3F3SSA22S58K20X	3F3SPA22S58K20X
5W5	20	285	3.20	47	E228329	3	5F5SSA22S56K20X	5F5SPA22S56K20X
	30	100					5F5SSA22S57K20X	5F5SPA22S57K20X
	40	3.75					5F5SSA22S58K20X	5F5SPA22S58K20X
8W8	20	285	3.20	47	E228329	3	8F8SSA22S56K20X	8F8SPA22S56K20X
	30	100					8F8SSA22S57K20X	8F8SPA22S57K20X
	40	3.75					8F8SSA22S58K20X	8F8SPA22S58K20X

4-40 UNC threaded insert, coded version

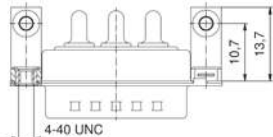


For other capacitance values refer to the part number creator.

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

2W2C	20	285	3.20	47	E228329	3	2F2CSA22S56K20X	2F2CPA22S56K20X
	30	100					2F2CSA22S57K20X	2F2CPA22S57K20X
	40	3.75					2F2CSA22S58K20X	2F2CPA22S58K20X
3W3C	20	285	3.20	47	E228329	3	3F3CSA22S56K20X	3F3CPA22S56K20X
	30	100					3F3CSA22S57K20X	3F3CPA22S57K20X
	40	3.75					3F3CSA22S58K20X	3F3CPA22S58K20X

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



For other capacitance values refer to the part number creator.

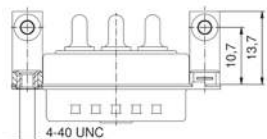
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

3W3	20	285	3.20	47	E228329	3	3F3SSA22S56K40X	3F3SPA22S56K40X
	30	100					3F3SSA22S57K40X	3F3SPA22S57K40X
	40	3.75					3F3SSA22S58K40X	3F3SPA22S58K40X
5W5	20	285	3.20	47	E228329	3	5F5SSA22S56K40X	5F5SPA22S56K40X
	30	100					5F5SSA22S57K40X	5F5SPA22S57K40X
	40	3.75					5F5SSA22S58K40X	5F5SPA22S58K40X
8W8	20	285	3.20	47	E228329	3	8F8SSA22S56K40X	8F8SPA22S56K40X
	30	100					8F8SSA22S57K40X	8F8SPA22S57K40X
	40	3.75					8F8SSA22S58K40X	8F8SPA22S58K40X

FILTER COMBINATION D-SUB CONNECTORS C-Filter

Solder pin angled
Precision machined contacts, metal bracket

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



For other capacitance values refer to the part number creator.

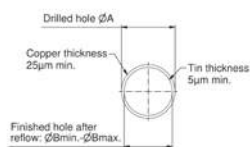
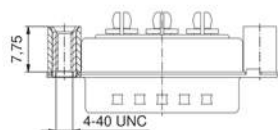
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	285	3.20	47	E228329	3	2F2CSA22S56K40X	2F2CPA22S56K40X
	30	100					2F2CSA22S57K40X	2F2CPA22S57K40X
	40	3.75					2F2CSA22S58K40X	2F2CPA22S58K40X
3W3C	20	285	3.20	47	E228329	3	3F3CSA22S56K40X	3F3CPA22S56K40X
	30	100					3F3CSA22S57K40X	3F3CPA22S57K40X
	40	3.75					3F3CSA22S58K40X	3F3CPA22S58K40X

Press-fit contact straight
Precision machined contacts

4-40 UNC threaded rear spacer



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

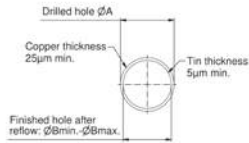
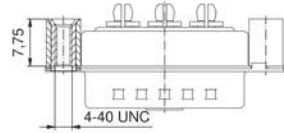
3W3	30	100	3.11	47	E228329	3	3F3SSA22SP1AA0X	3F3SPA22SP1AA0X
			3.25				3F3SSA22SP2AA0X	3F3SPA22SP2AA0X
			3.20				3F3SSA22SP4AA0X	3F3SPA22SP4AA0X
5W5	30	100	3.11	47	E228329	3	5F5SSA22SP1AA0X	5F5SPA22SP1AA0X
			3.25				5F5SSA22SP2AA0X	5F5SPA22SP2AA0X
			3.20				5F5SSA22SP4AA0X	5F5SPA22SP4AA0X
8W8	30	100	3.11	47	E228329	3	8F8SSA22SP1AA0X	8F8SPA22SP1AA0X
			3.25				8F8SSA22SP2AA0X	8F8SPA22SP2AA0X
			3.20				8F8SSA22SP4AA0X	8F8SPA22SP4AA0X

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

FILTER COMBINATION D-SUB CONNECTORS C-Filter

Press-fit contact straight
Precision machined contacts

4-40 UNC threaded rear spacer, coded version



For other capacitance values refer to the part number creator.

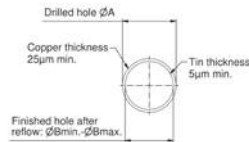
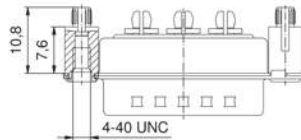
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

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

No. of poles	Current rating [A]	Working voltage [VDC]	Hole diameter PCB [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	30	100	3.11	47	E228329	3	2F2CSA22SP1AA0X	2F2CPA22SP1AA0X
			3.25				2F2CSA22SP2AA0X	2F2CPA22SP2AA0X
			3.20				2F2CSA22SP4AA0X	2F2CPA22SP4AA0X
3W3C	30	100	3.11	47	E228329	3	3F3CSA22SP1AA0X	3F3CPA22SP1AA0X
			3.25				3F3CSA22SP2AA0X	3F3CPA22SP2AA0X
			3.20				3F3CSA22SP4AA0X	3F3CPA22SP4AA0X

Termination Code	ø A	ø B min.	ø B max.
P1	3.13	2.96	3.11
P2	3.27	3.10	3.25
P4	3.22	3.02	3.20

4-40 UNC rear press-fit spacer



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

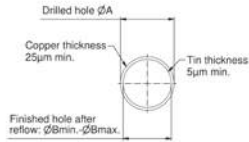
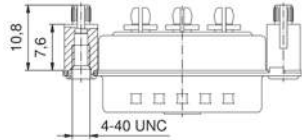
3W3	30	100	3.11	47	E228329	3	3F3SSA22SP1W40X	3F3SPA22SP1W40X
			3.25				3F3SSA22SP2W40X	3F3SPA22SP2W40X
			3.20				3F3SSA22SP4W40X	3F3SPA22SP4W40X
5W5	30	100	3.11	47	E228329	3	5F5SSA22SP1W40X	5F5SPA22SP1W40X
			3.25				5F5SSA22SP2W40X	5F5SPA22SP2W40X
			3.20				5F5SSA22SP4W40X	5F5SPA22SP4W40X
8W8	30	100	3.11	47	E228329	3	8F8SSA22SP1W40X	8F8SPA22SP1W40X
			3.25				8F8SSA22SP2W40X	8F8SPA22SP2W40X
			3.20				8F8SSA22SP4W40X	8F8SPA22SP4W40X

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

FILTER COMBINATION D-SUB CONNECTORS C-Filter

Press-fit contact straight
Precision machined contacts

4-40 UNC rear press-fit spacer, 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

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

No. of poles	Current rating [A]	Working voltage [VDC]	Hole diameter PCB [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	30	100	3.11	47	E228329	3	2F2CSA22SP1W40X	2F2CPA22SP1W40X
			3.25				2F2CSA22SP2W40X	2F2CPA22SP2W40X
			3.20				2F2CSA22SP4W40X	2F2CPA22SP4W40X
3W3C	30	100	3.11	47	E228329	3	3F3CSA22SP1W40X	3F3CPA22SP1W40X
			3.25				3F3CSA22SP2W40X	3F3CPA22SP2W40X
			3.20				3F3CSA22SP4W40X	3F3CPA22SP4W40X

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

