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D-SUB/IP67 D-SUB CONNECTORS



GB D-SUB/IP67 D-SUB CONNECTORS



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

CONEC[®]

TECHNOLOGY IN CONNECTORS[™]

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

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

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

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

CONEC Germany, Lippstadt



CONEC Canada, Brampton



CONEC USA, Garner

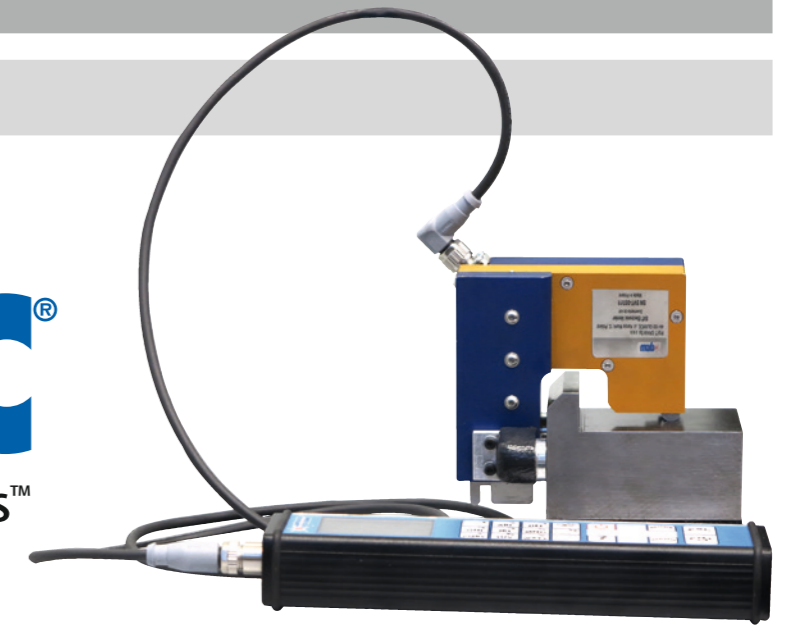


CUSTOMIZED PRODUCTS

Application-specific-solutions

CONEC[®]

TECHNOLOGY IN CONNECTORS[™]




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

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

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





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

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

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



CONTENT

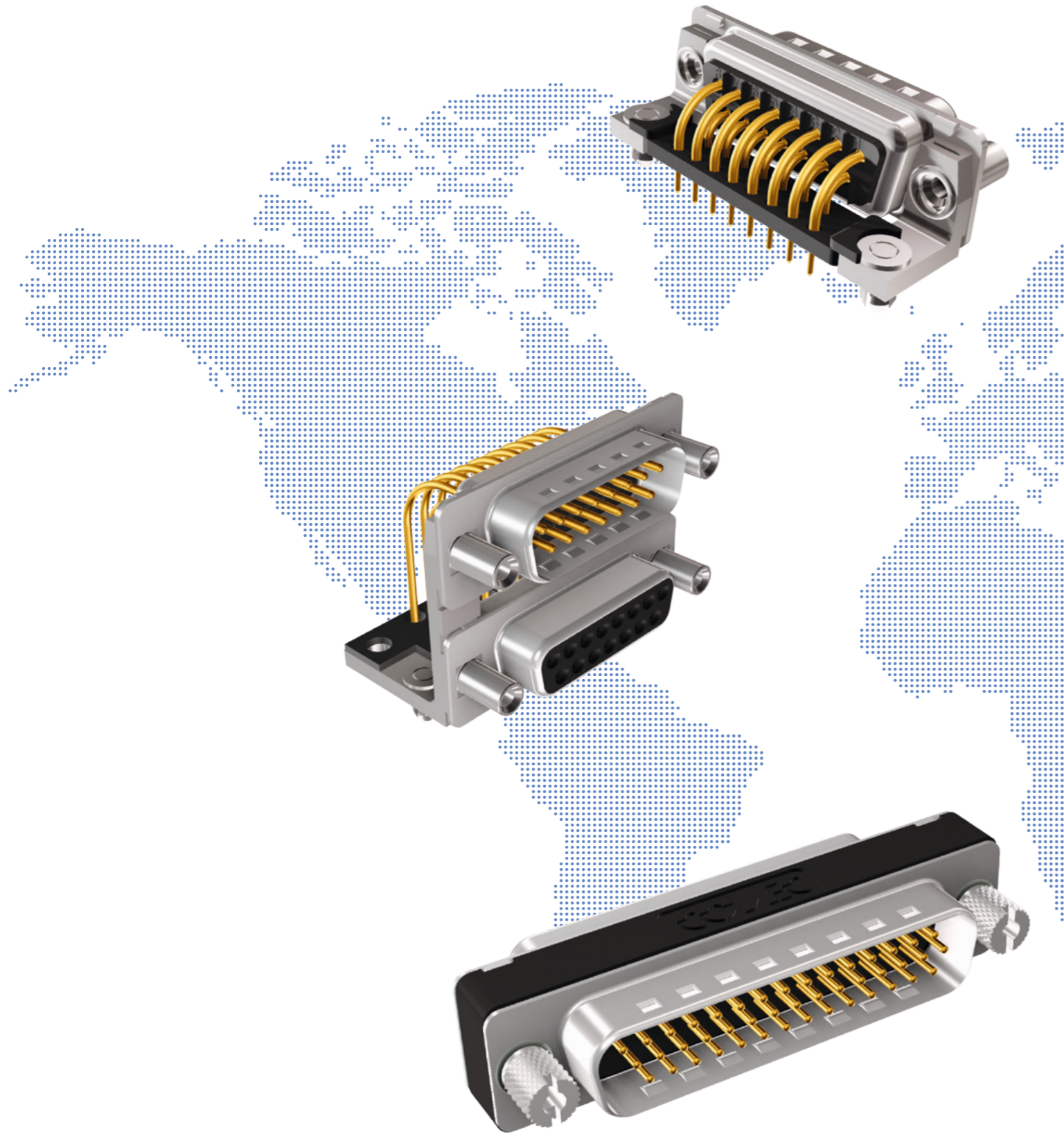
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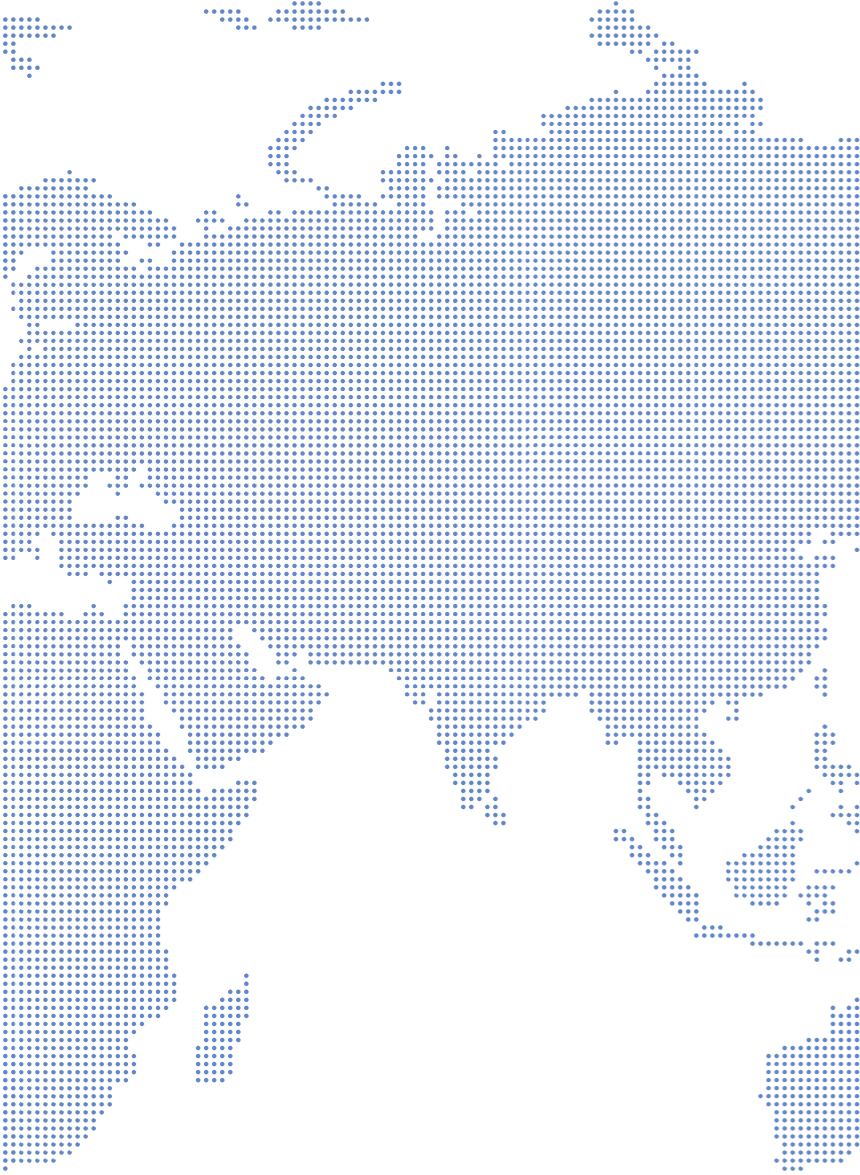
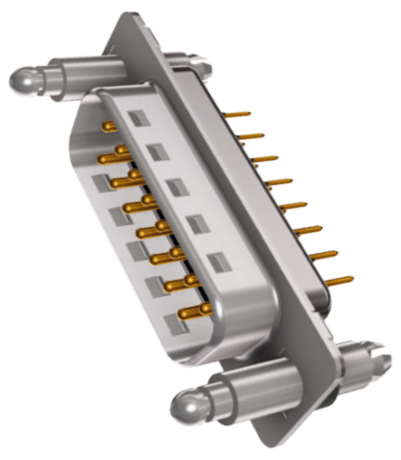
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SECTION 1

D-SUB CONNECTORS





D-SUB CONNECTORS

Product specification

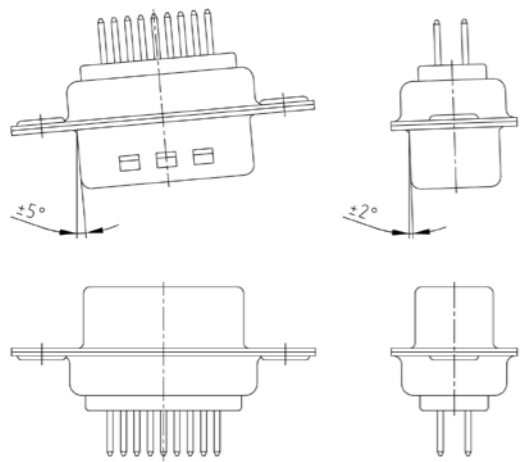
Basic material	D-SUB 9-, 15-, 25-, 37-, 50-pos.	D-SUB High Density 15-, 26-, 44-, 62-, 78-pos.
Contact	Copper alloy	
Contact plating	Gold over nickel	
Insulator	PBT GF UL 94 V-0	
Shell	Steel tin plated / nickel plated (on request brass tin plated or stainless steel)	
Technical Data		
Test voltage	1000 V, 50 Hz, for 1 Minute	
Working voltage	125 V AC/DC depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1	60 V AC/DC
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	3 A (UL, VDE) / 2.5 A (CSA)
Contact resistance	max. 10 mΩ prior to stressing ΔR max. 10 mΩ after stressing per IEC 60807-2	
Insulation resistance	≥ 5 GΩ	
Clearance and creepage distance	Contact - Contact ≥ 1.0 mm / 0.04" 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.

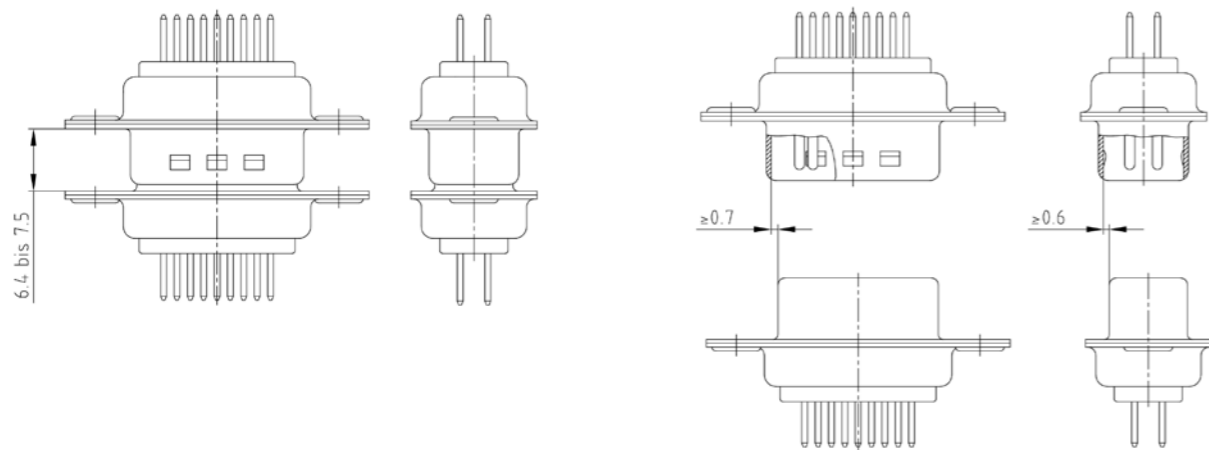
D-SUB CONNECTORS

Mating conditions

Max. tilt angle for connector mating

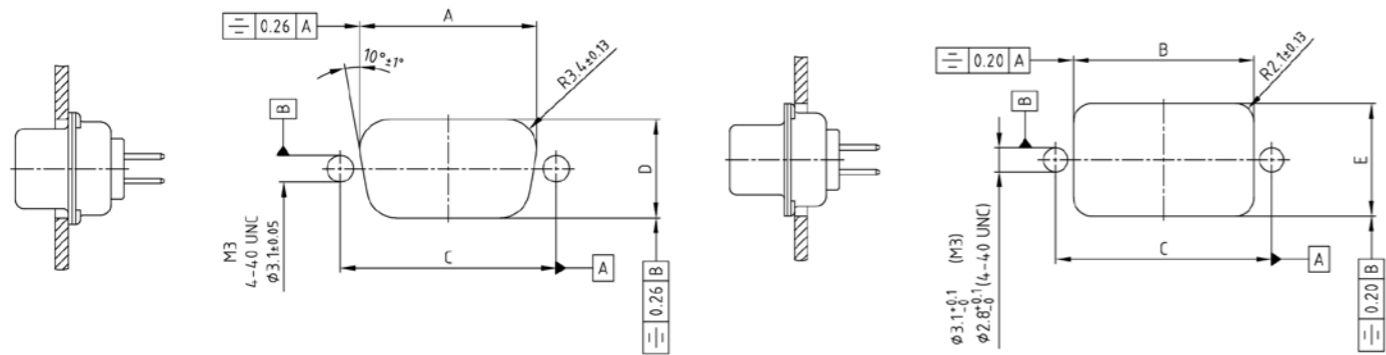


Range for safe contact Lock-in range



Panel cut-out

Back panel mounting Front panel mounting

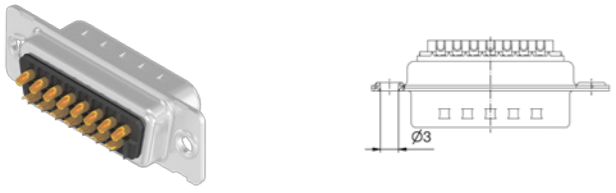
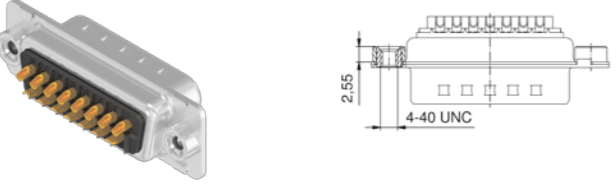


Shell size	No. of poles	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
1	9 15	20.50	20.90	25.00	11.40	13.00
2	15 26	28.80	29.20	33.30	11.40	13.00
3	25 44	42.50	42.90	47.04	11.40	13.00
4	37 62	59.10	59.40	63.50	11.40	13.00
5	50 78	56.30	57.00	61.10	14.10	15.80

Technical specifications are subject to change without notice.

D-SUB CONNECTORS
Standard

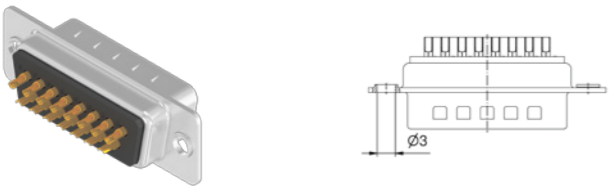
Solder cup
Precision machined contacts, AWG 20

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 Ø 3 mm	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A10069X	163A11119X
	15					164A10079X	163A11129X
	25					164A10089X	163A11139X
	37					164A10099X	163A11149X
	50					164A10109X	163A11159X
4-40 UNC threaded insert							
	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	75 (UI) / 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

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

4-40 UNC threaded rear spacer

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

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

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

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

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

D-SUB CONNECTORS
Standard

Wire wrap
Precision machined 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	75 (UL) / 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

	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A10419X	163A11469X
	15					164A10429X	163A11479X
	25					164A10439X	163A11489X
	37					164A10449X	163A11499X
	50					164A10459X	163A11509X

D-SUB CONNECTORS
Standard

IDC for flat cable
Stamped contacts, AWG 26-28

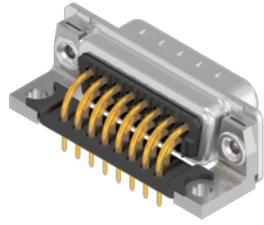
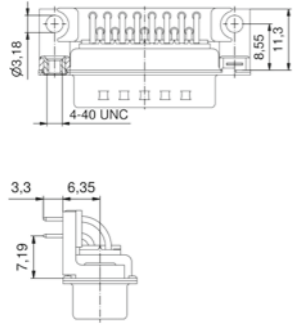
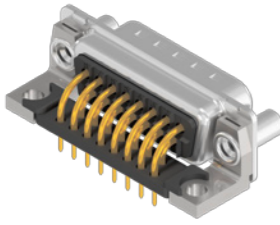
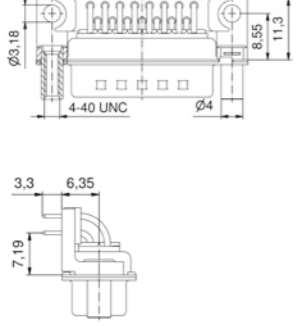
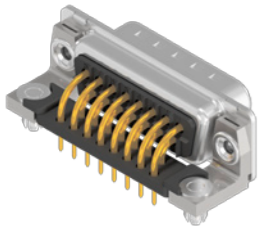
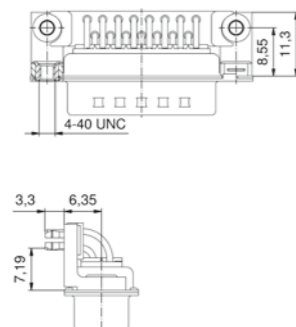
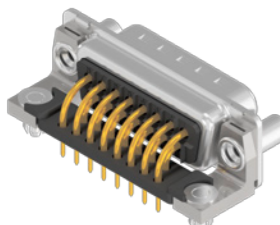
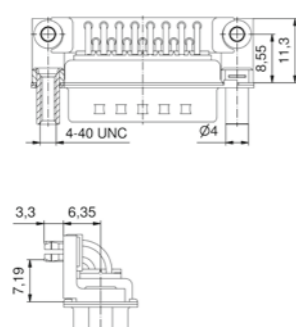
Through-hole Ø 3 mm	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	09	1	125		3	302A10089X	301A10089X
	15					302A10099X	301A10099X
	25					302A10109X	301A10109X
	37					302A10119X	301A10119X

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 (UL) / 5 (CSA VDE)	125	E202784	3	164A11519X	163A13069X	
	15					164A11529X	163A13079X	
	25					164A11539X	163A13089X	
	37					164A11549X	163A13099X	
	50					164A18969X	163A18549X	
4-40 UNC front spacer								
 	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A16929X	163A16519X	
	15					164A16939X	163A16529X	
	25					164A16949X	163A16539X	
	37					164A16959X	163A16549X	
	50					164A19019X	163A18589X	
Clip for PCB 1.6 mm, 4-40 UNC threaded insert								
 	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A17939X	163A17529X	
	15					164A17949X	163A17539X	
	25					164A17959X	163A17549X	
	37					164A17969X	163A17559X	
	50					164A18989X	163A18569X	
Clip for PCB 1.6 mm, 4-40 UNC front spacer								
 	09	75 (UL) / 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
	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
	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
	09	3	125		3	302A11339X	301A11029X	
	15					302A11349X	301A11039X	
	25					302A11359X	301A11049X	
	37					302A11369X	301A11059X	

Clip for PCB 1.6 mm, 4-40 UNC front spacer		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	09	3	125		3	302A11249X	301A10939X	
	15					302A11259X	301A10949X	
	25					302A11269X	301A10959X	
	37					302A11279X	301A10969X	

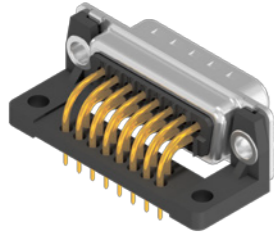
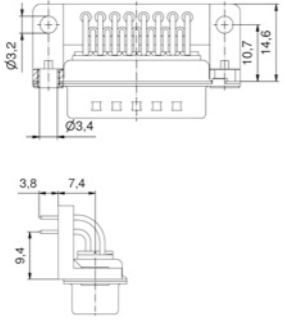
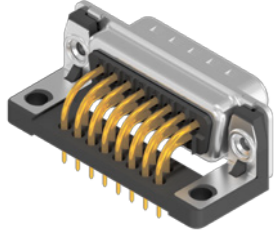
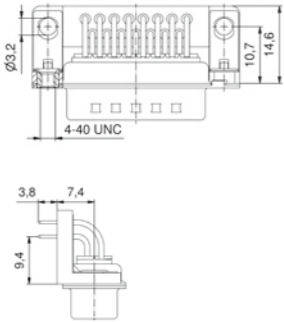
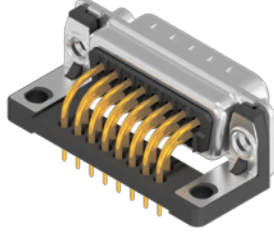
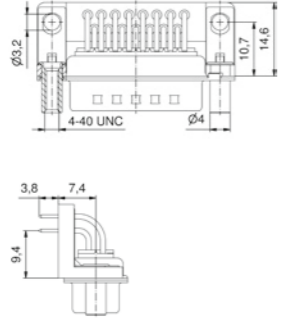
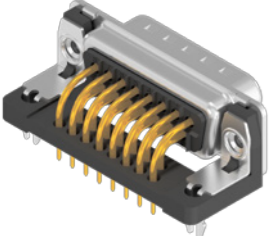
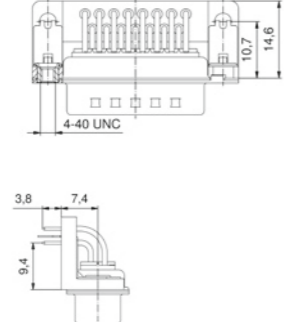
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

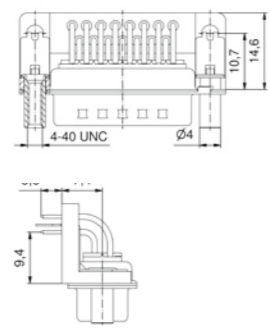
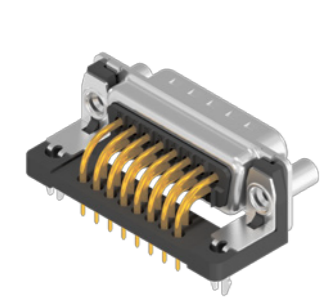
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

Through-hole Ø 3,4 mm		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A10669X	163A11719X	
	15					164A10679X	163A11729X	
	25					164A10689X	163A11739X	
	37					164A10699X	163A11749X	
	50					164A10709X	163A11759X	
Grounding strap, 4-40 UNC threaded insert								
 	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A12329X	163A14119X	
	15					164A12339X	163A14129X	
	25					164A12349X	163A14139X	
	37					164A12359X	163A14149X	
Grounding strap, 4-40 UNC front spacer								
 	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A12229X	163A13829X	
	15					164A12239X	163A13839X	
	25					164A12249X	163A13849X	
	37					164A12259X	163A13859X	
Clip for PCB 1.6 mm, 4-40 UNC threaded insert								
 	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A12969X	163A14489X	
	15					164A12979X	163A14499X	
	25					164A12989X	163A14509X	
	37					164A12999X	163A14519X	
	50					164A19139X	163A18709X	

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

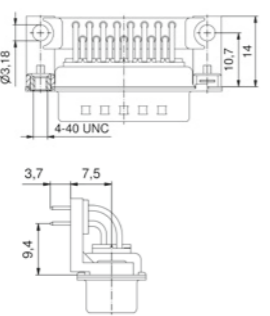
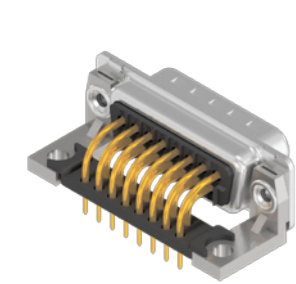


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UI) / 5 (CSA VDE)	125	E202784	3	164A13089X	163A14609X
15					164A13099X	163A14619X
25					164A13109X	163A14629X
37					164A13119X	163A14639X
50					164A19159X	163A18729X

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

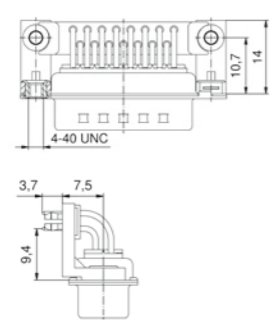
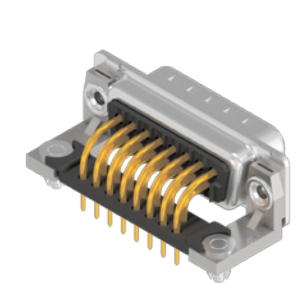
Solder pin, angled, .370"/9.4 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert



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	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

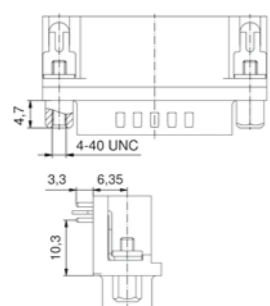
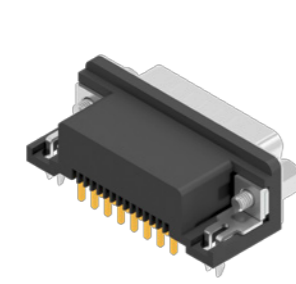


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UI) / 5 (CSA VDE)	125	E202784	3	164A16769X	163A16359X
15					164A16779X	163A16369X
25					164A16789X	163A16379X
37					164A16799X	163A16389X
50					164A18759X	163A18339X

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



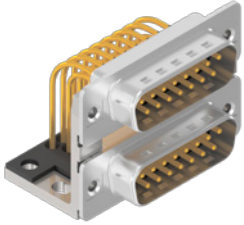
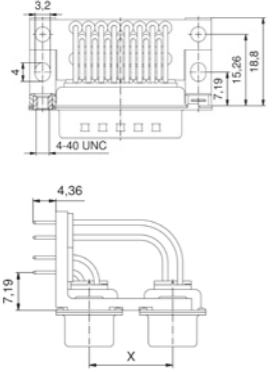
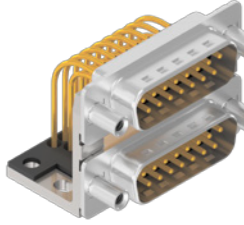
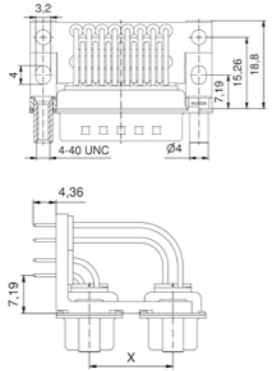
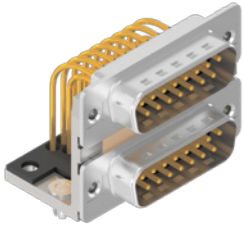
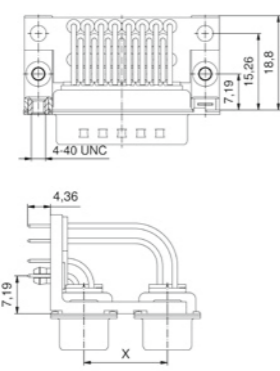
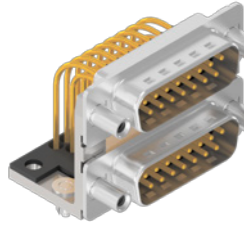
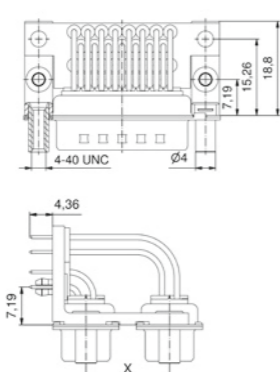
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	3	125		3	302A10779X	301A10679X
15					302A10789X	301A10689X
25					302A10799X	301A10699X
37					302A10809X	301A10709X

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

D-SUB CONNECTORS
Dual Port

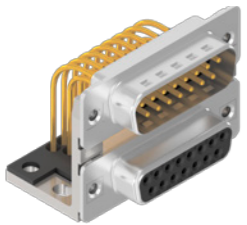
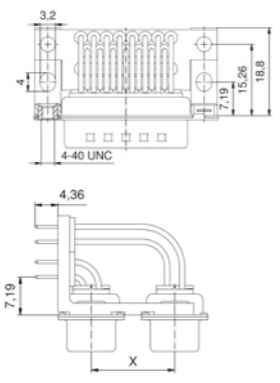
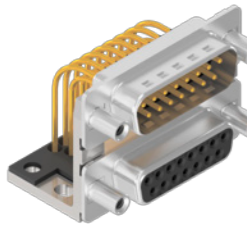
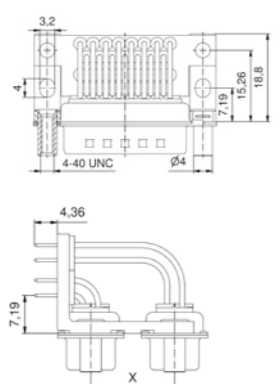
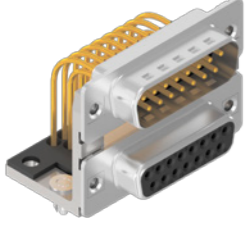
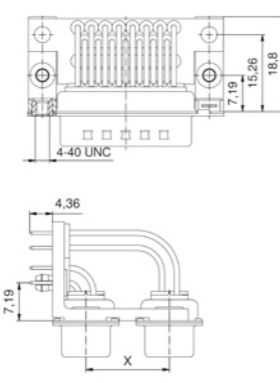
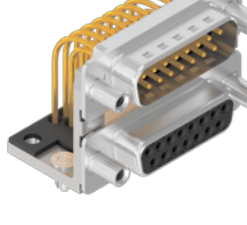
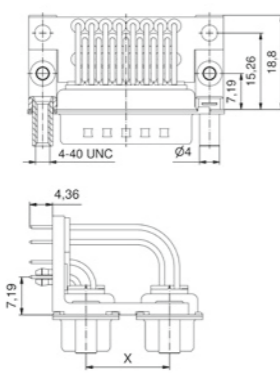
Plug upper - Plug bottom
Solder pin, angled, precision machined contacts

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

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
4-40 UNC threaded insert								
		09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A15199X
		15/15						163A15209X
		25/25						163A15219X
		37/37						163A15229X
		09/09						163A15519X
		15/15						163A15529X
		25/25						163A15539X
		37/37						163A15549X
4-40 UNC front spacer								
		09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A15359X
		15/15						163A15369X
		25/25						163A15379X
		37/37						163A15389X
		09/09						163A15679X
		15/15						163A15689X
		25/25						163A15699X
		37/37						163A15709X
Clip for PCB 1.6 mm, 4-40 UNC threaded insert								
		09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A19969X
		15/15						163A19979X
		25/25						163A19989X
		37/37						163A19999X
		09/09						163A19489X
		15/15						163A19499X
		25/25						163A19509X
		37/37						163A19519X
Clip for PCB 1.6 mm, 4-40 UNC front spacer								
		09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A19329X
		15/15						163A19339X
		25/25						163A19349X
		37/37						163A19359X
		09/09						163A19649X
		25/25						163A19659X
		25/25						163A19669X
		37/37						163A19679X

D-SUB CONNECTORS
Dual Port

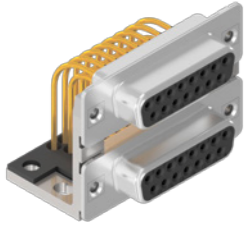
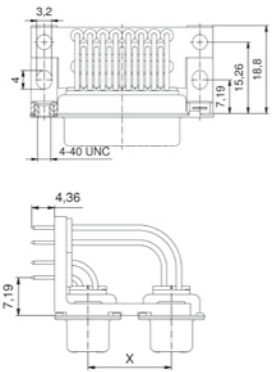
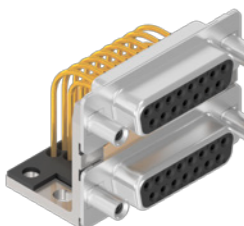
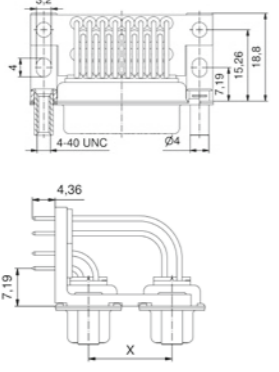
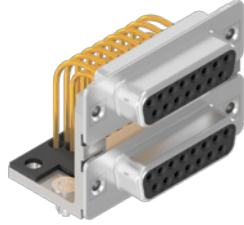
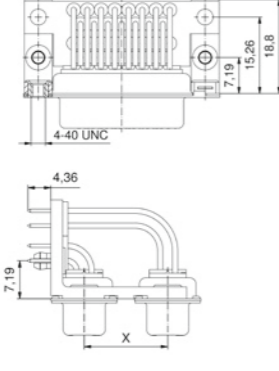
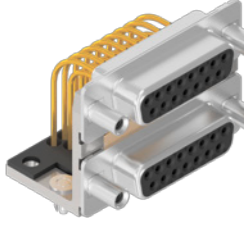
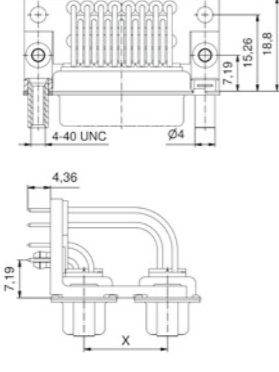
Plug upper - Socket bottom
Solder pin, angled, precision machined contacts

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
4-40 UNC threaded insert								
		09/09	75 (UII) / 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 (UII) / 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 (UII) / 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 (UII) / 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

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
Dual Port

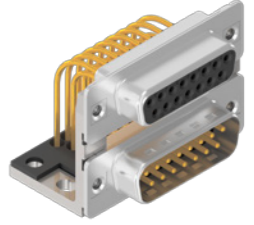
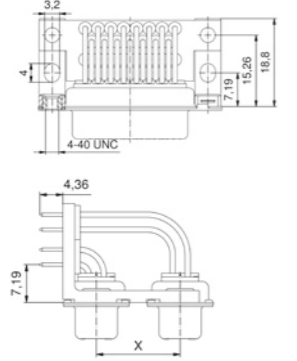
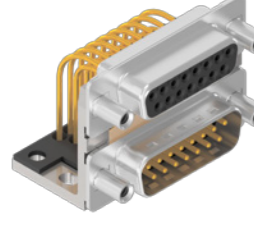
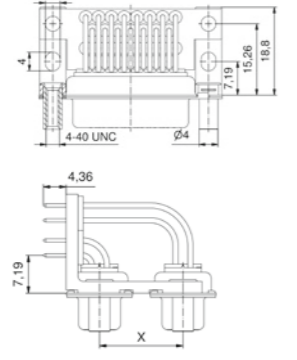
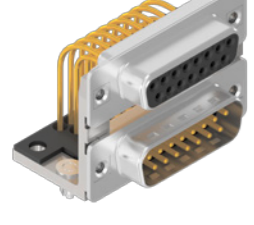
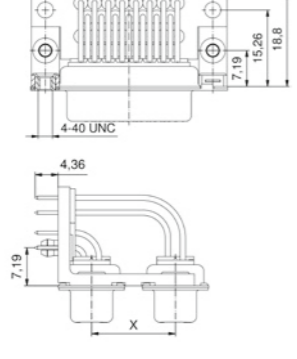
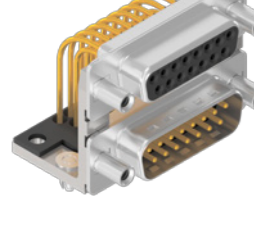
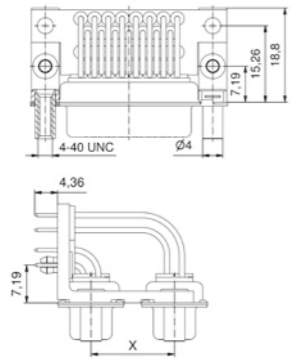
Socket upper - Socket bottom
Solder pin, angled, precision machined contacts

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
4-40 UNC threaded insert								
 	09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3		164A15609X	
	15/15						.625	164A15619X
	25/25						15.88	164A15629X
	37/37							164A15639X
	09/09							164A15929X
	15/15						.750	164A15939X
	25/25						19.05	164A15949X
37/37		164A15959X						
4-40 UNC front spacer								
 	09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3		164A15769X	
	15/15						.625	164A15779X
	25/25						15.88	164A15789X
	37/37							164A15799X
	09/09							164A16089X
	15/15						.750	164A16099X
	25/25						19.05	164A16109X
37/37		164A16119X						
Clip for PCB 1.6 mm, 4-40 UNC threaded insert								
 	09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3		164A20409X	
	15/15						.625	164A20419X
	25/25						15.88	164A20429X
	37/37							164A20439X
	09/09							164A19919X
	15/15						.750	164A19929X
	25/25						19.05	164A19939X
37/37		164A19949X						
Clip for PCB 1.6 mm, 4-40 UNC front spacer								
 	09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3		164A19759X	
	15/15						.625	164A19769X
	25/25						15.88	164A19779X
	37/37							164A19789X
	09/09							164A20079X
	15/15						.750	164A20089X
	25/25						19.05	164A20099X
37/37		164A20109X						

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
Dual Port

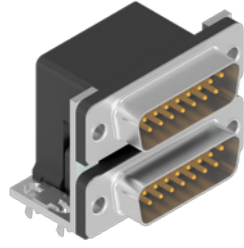
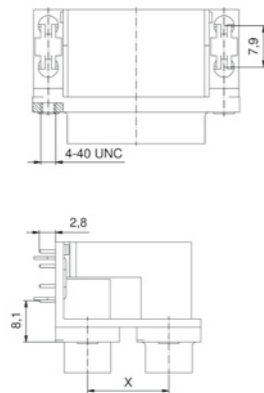
Socket upper - Plug bottom
Solder pin, angled, precision machined contacts

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
4-40 UNC threaded insert								
 	09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A15649X	
	15/15						164A15659X	
	25/25						164A15669X	
	37/37						164A15679X	
	09/09						.750 19.05	164A15969X
	15/15					164A15979X		
	25/25					164A15989X		
	37/37					164A15999X		
4-40 UNC front spacer								
 	09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A15809X	
	15/15						164A15819X	
	25/25						164A15829X	
	37/37						164A15839X	
	09/09						.750 19.05	164A16129X
	15/15					164A16139X		
	25/25					164A16149X		
	37/37					164A16159X		
Clip for PCB 1.6 mm, 4-40 UNC threaded insert								
 	09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A20449X	
	15/15						164A20459X	
	25/25						164A20469X	
	37/37						164A20479X	
	09/09						.750 19.05	164A19959X
	15/15					164A19969X		
	25/25					164A19979X		
	37/37					164A19989X		
Clip for PCB 1.6 mm, 4-40 UNC front spacer								
 	09/09	75 (UII) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A19799X	
	15/15						164A19809X	
	25/25						164A19819X	
	09/09						164A20119X	
	15/15					164A20129X	.750 19.05	
	25/25					164A20139X		
	37/37					164A20149X		

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

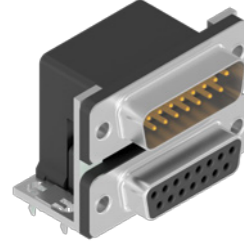
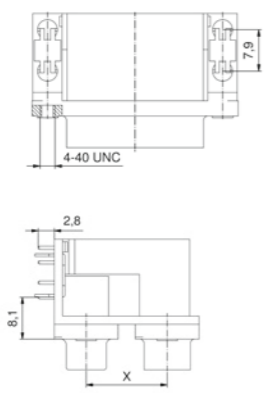
D-SUB CONNECTORS
Dual Port

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

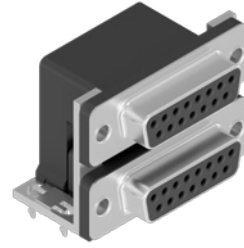
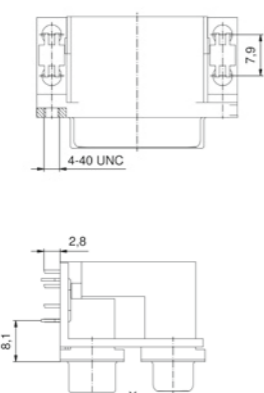
Clip for PCB 1.6 mm, 4-40 UNC threaded insert		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.					
 	09/09	3	125	3		3	.625	DLS1PP5AN21X					
	15/15						15.88	DLS2PP5AN21X					
	25/25							DLS3PP5AN21X					
	37/37							DLS4PP5AN21X					
	09/09												DLS1PP5AN23X
	15/15											.750	DLS2PP5AN23X
	25/25											19.05	DLS3PP5AN23X
	37/37												DLS4PP5AN23X

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

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

Clip for PCB 1.6 mm, 4-40 UNC threaded insert		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.					
 	09/09	3	125	3		3	.625	DLS1PS5AN21X					
	15/15						15.88	DLS2PS5AN21X					
	25/25							DLS3PS5AN21X					
	37/37							DLS4PS5AN21X					
	09/09												DLS1PS5AN23X
	15/15											.750	DLS2PS5AN23X
	25/25											19.05	DLS3PS5AN23X
	37/37												DLS4PS5AN23X

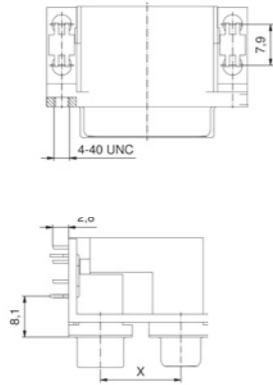
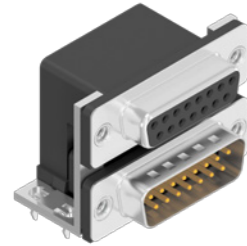
Socket upper - Socket bottom
Solder pin, angled, stamped contacts

Clip for PCB 1.6 mm, 4-40 UNC threaded insert		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		3	.625	DLS1SS5AN21X					
	15/15						15.88	DLS2SS5AN21X					
	25/25							DLS3SS5AN21X					
	37/37							DLS4SS5AN21X					
	09/09												DLS1SS5AN23X
	15/15											.750	DLS2SS5AN23X
	25/25											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



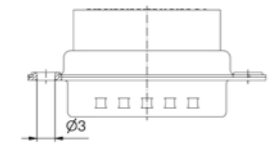
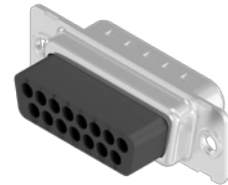
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
09/09	3	125		3	.625 15.88	DLS1SP5AN21X
15/15						DLS2SP5AN21X
25/25						DLS3SP5AN21X
37/37						DLS4SP5AN21X
09/09					.750 19.05	DLS1SP5AN23X
15/15						DLS2SP5AN23X
25/25						DLS3SP5AN23X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

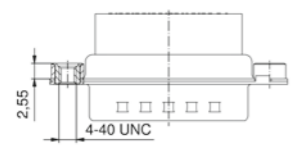
Through-hole \varnothing 3 mm



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

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

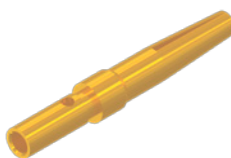
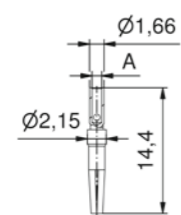

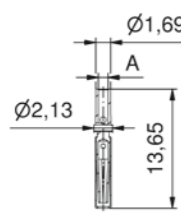
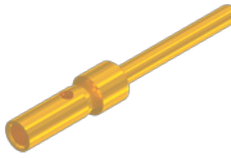
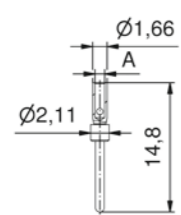
4-40 UNC threaded insert



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

D-SUB CONNECTORS
Standard

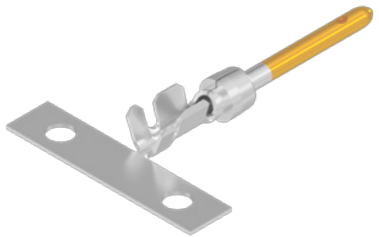
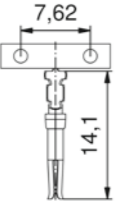
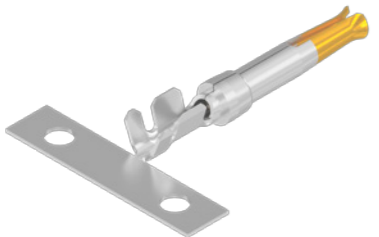
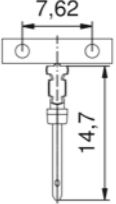
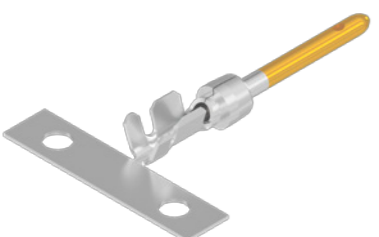
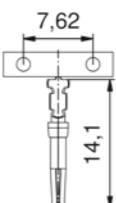
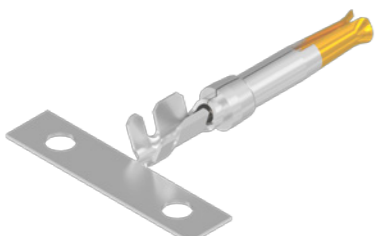
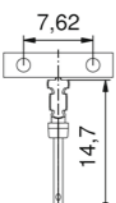
Crimp-contacts, precision machined

		Quantity [pcs]		Current rating [A]		Crimp inner Ø A = [mm]		Quality class		Loose contacts		Part No.	
		AWG											
Female contact													
 	500	24-20	7,5	1,12	3	✓	162A18709X						
	100						16-001653						
	500	28-24	5	0,64			162A18719X						
	100						16-001663						
Female contact closed entry													
 	24-20	7,5	1,12	1	✓	132C15019X							
	100	28-24	5			0,6	132C15029X						
Male contact													
 	500	24-20	7,5	1,12	3	✓	161A18299X						
	100						16-001673						
	500	28-24	5	0,64			161A18309X						
	100						16-001683						

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)

D-SUB CONNECTORS
Standard

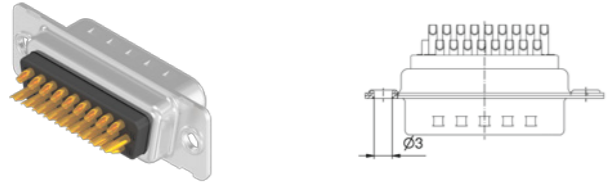
Crimp-contacts, stamped

		Quantity [pcs]	Current rating [A]	Loose contacts	Small reel wheeled left	Big reel wheeled left	Big reel wheeled right	Quality class	Part No.
Female contact, AWG 24-20									
 	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	

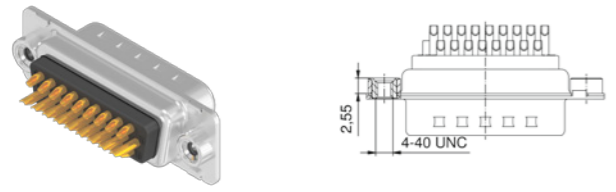
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

D-SUB CONNECTORS
High Density

Solder cup
Precision machined contacts, AWG 22

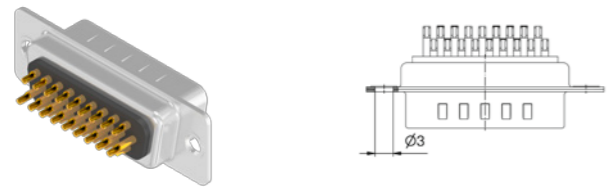
Through-hole Ø 3 mm	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL VDE) / 2.5 (CSA)	60	E202784	3	164A17009X	163A16599X
	26					164A17019X	163A16609X
	44					164A17029X	163A16619X
	62					164A17039X	163A16629X
	78					164A17049X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

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


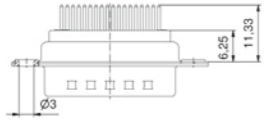
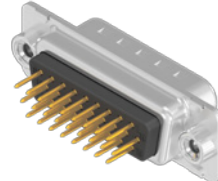
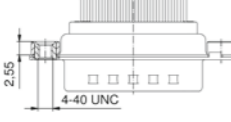
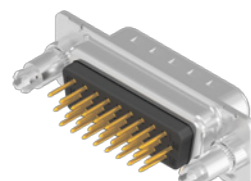
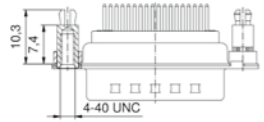
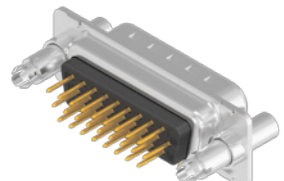
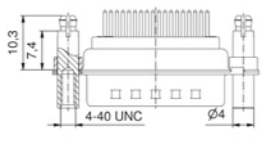
Through-hole Ø 3 mm	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3	60		3	302A10129X	301A10129X
	26					302A10139X	301A10139X
	44					302A10149X	301A10149X
	62					302A10159X	301A10159X
	78					302A11329X	301A11019X

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

D-SUB CONNECTORS
High Density

Solder pin, straight
Precision machined contacts

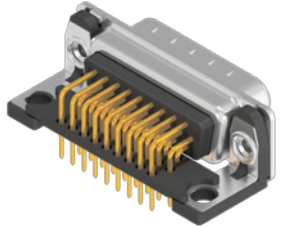
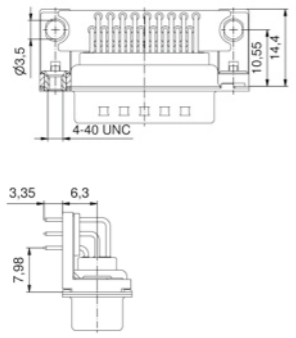
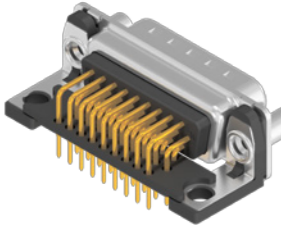
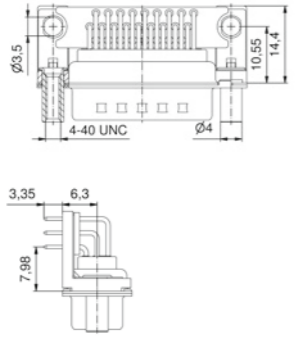
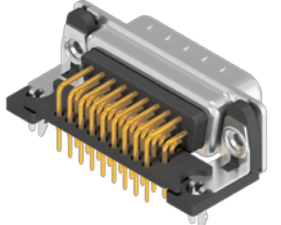
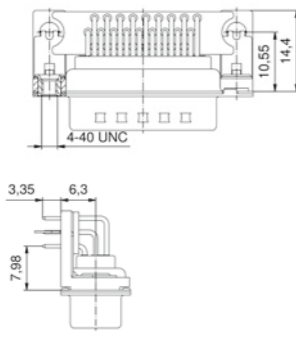
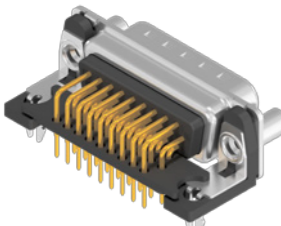
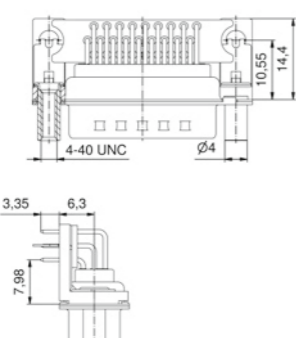
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

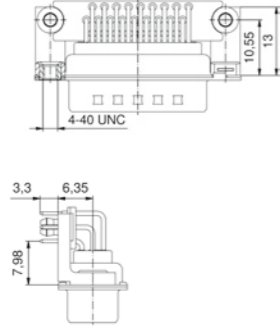
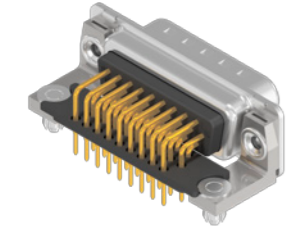
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

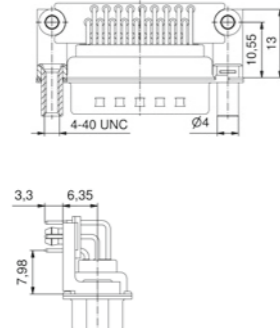
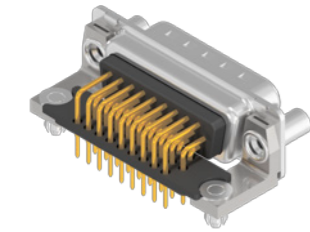
Clip for PCB 1.6 mm, 4-40 UNC threaded insert



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

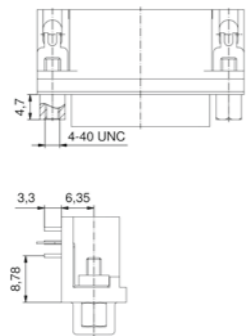
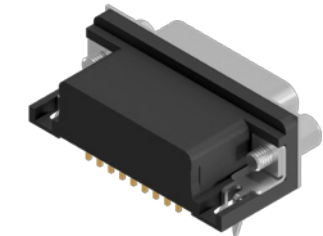


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A18259X	163A17849X
26					164A18269X	163A17859X
44					164A18279X	163A17869X
62					164A18289X	163A17879X
78					164A18649X	163A18239X

D-SUB CONNECTORS
High Density

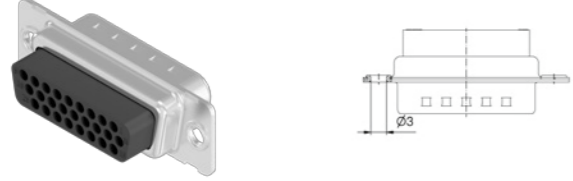
Solder pin, angled, .350"/8.78 mm
Precision machined contacts, plastic bracket

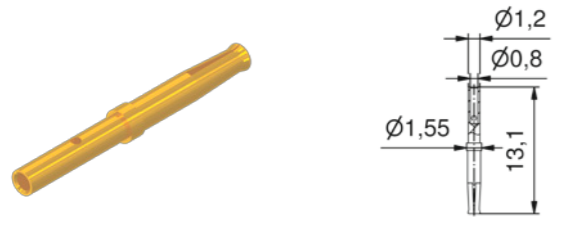
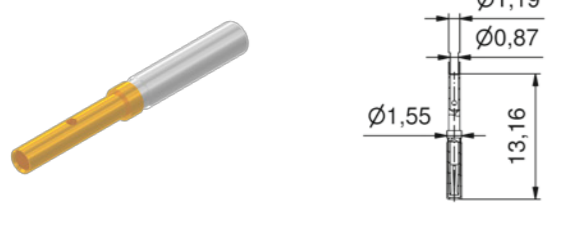

Clip for PCB 1.6 mm, 4-40 UNC front spacer


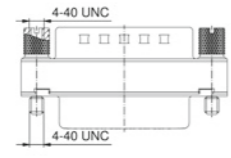


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3	60		3	302A10869X	301A10869X
26					302A10879X	301A10879X
44					302A10889X	301A10889X
62					302A10899X	301A10899X
78					302A11629X	301A11369X


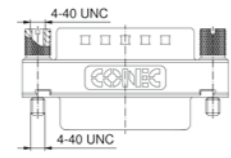
Shell: Steel nickel plated
Quality class 3 (A) = 50 mating cycles

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

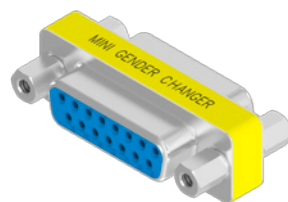
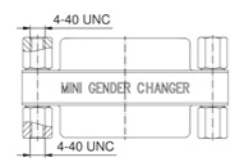
D-SUB CONNECTORS High Density		Quantity [pcs]	Current rating [A]	Loose contacts	Quality class	Quality class 3 (A) = 50 mating cycles On request: • Quality class 1 (C) = 500 mating cycles
Crimp-contacts, precision machined						Part No.
Female contact, AWG 28-22						
		500	3	✓	3	162A18419X
Female contact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

D-SUB CONNECTORS Standard		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
Interface adapter, connector saver Plug connector - socket connector							
4-40 UNC threaded lock							
 	09	75 (UL, 5 (CSA, VDE)	125	E202784	3	163A50009X	
	15					163A50019X	
	25					163A50029X	
	37					163A50039X	
	50					163A50049X	


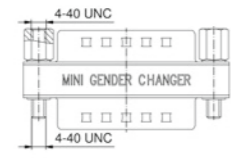
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles
• M3 thread

D-SUB CONNECTORS High Density		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
Interface adapter, connector saver Plug connector - socket connector							
4-40 UNC threaded lock							
 	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

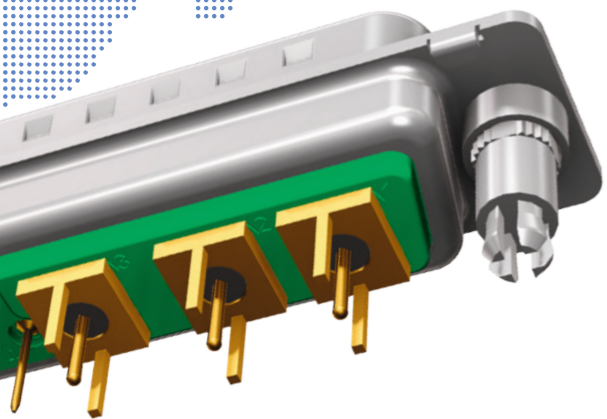
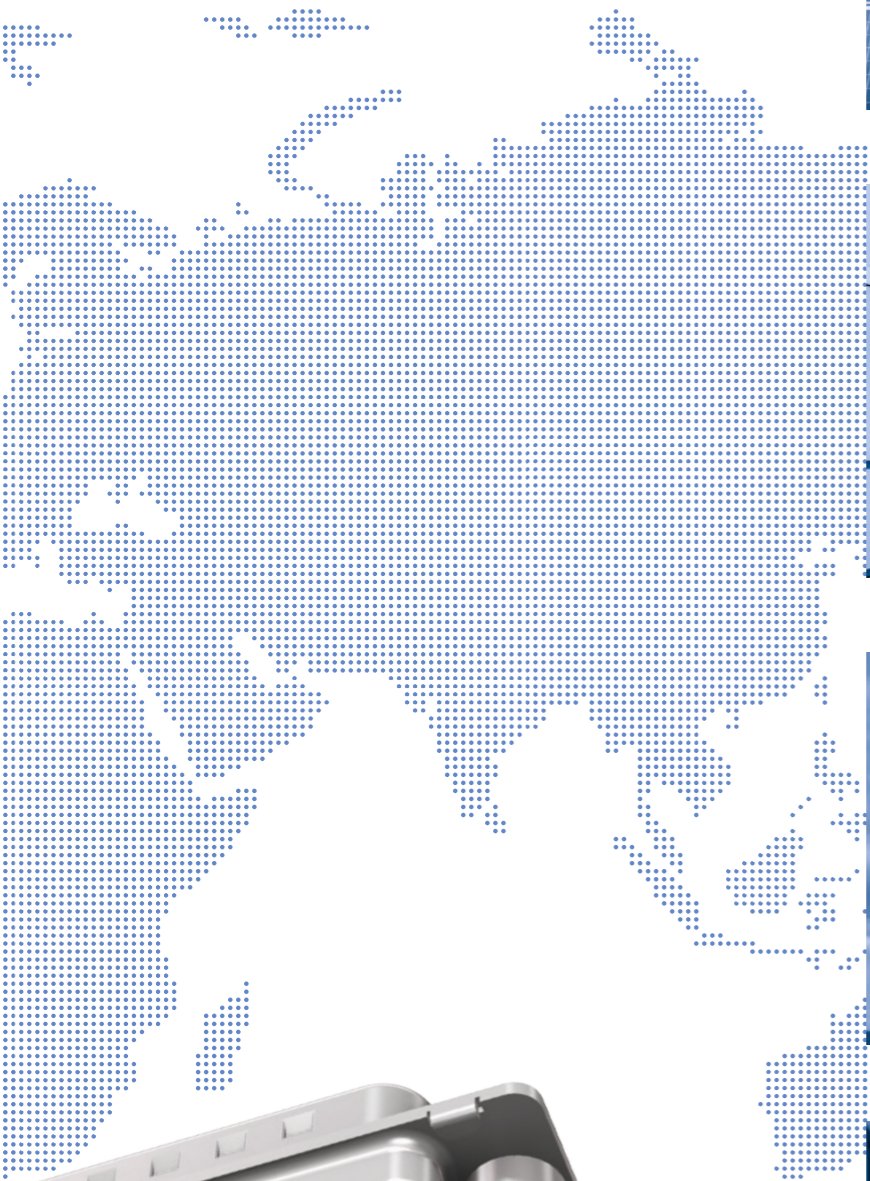
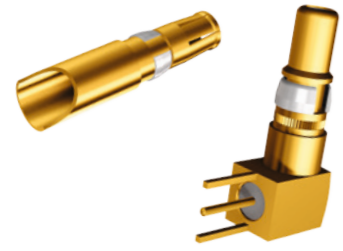
D-SUB CONNECTORS Standard		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
Interface adapter, gender changer Socket connector - socket connector							
4-40 UNC threaded lock							
 	09	3	125		3	320X12519X	
	15					320X12539X	
	25					320X10559X	
	37					320X12559X	

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

Interface adapter, gender changer Plug connector- plug connector		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
4-40 UNC threaded lock							
 	09	3	125		3	320X12509X	
	15					320X12529X	
	25					320X10549X	
	37					320X12549X	

COMBINATION D-SUB CONNECTORS





COMBINATION D-SUB CONNECTORS

Part Number Creator Standard

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

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

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

Contact type
 P = Plug connector
 S = Socket connector

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

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

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

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

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

OX = Standard

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	Quality class 3/Quality class 1
61/41 = Solder cup 10 A	G7/76 = 3 Solder pins Straight 50 Ω
62/42 = Solder cup 20 A	G9/78 = 3 Solder pins angled 50 Ω
63/43 = Solder cup 30 A	H4/80 = 5 Solder pins angled 50 Ω
64/44 = Solder cup 40 A	G8/86 = 3 Solder pins Straight 75 Ω
68/48 = Solder pin, straight 20 A, D = .077"/1.95 mm	H2/88 = 3 Solder pins angled 75 Ω
69/49 = Solder pin, straight 20 A, D = .102"/2.60 mm	H5/90 = 5 Solder pins angled 75 Ω
70/50 = Solder pin, straight 20 A, D = .110"/2.85 mm	91 = Screw termination 20 A
71/51 = Solder pin, straight 30 A, D = .130"/3.18 mm	
72/52 = Solder pin, straight 40 A, D = .150"/3.75 mm	Quality class 1
59/55 = Solder pin, angled 15 A	P1 = press fit 30 A
73/56 = Solder pin, angled 20 A	P2 = press fit 30 A
74/57 = Solder pin, angled 30 A	P4 = press fit 30 A
75/58 = Solder pin, angled 40 A	99 = no high power, coax or crimp contacts loaded

Mounting style

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

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	
5W1		3W3		5W5	
2W2C		3W3C		9W4	
		7W2		13W3	
		11W1		17W2	
		HD 19W1		21W1	
				HD 15W4	

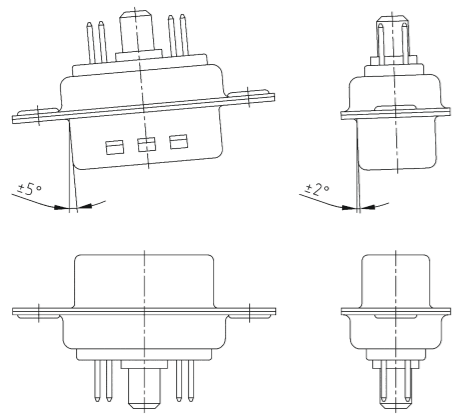
Shell size 4		Shell size 5	
8W8		24W7	
13W6		36W4	
17W5		43W2	
21WA4		47W1	
25W3			
27W2			
HD 45W2			

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

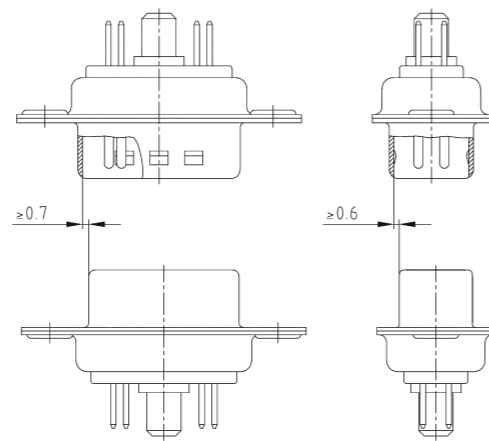
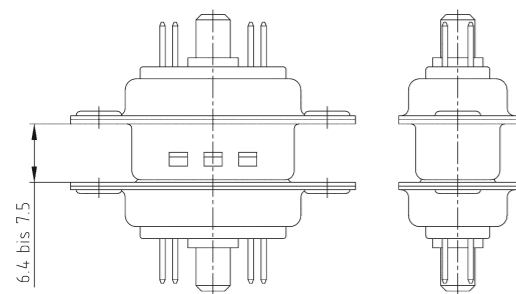
COMBINATION D-SUB CONNECTORS

Mating conditions

Max. tilt angle for connector mating

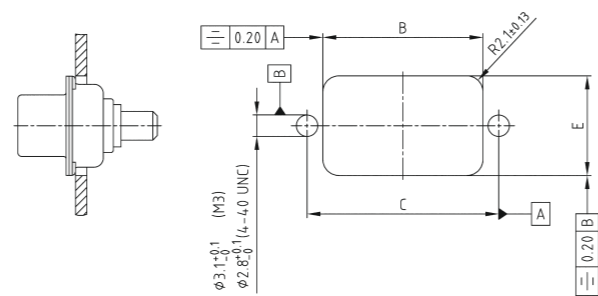
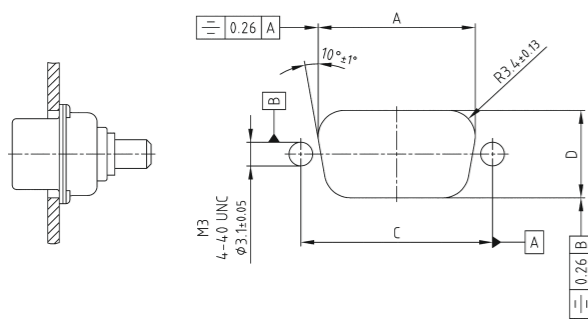


Range for safe contact Lock-in range



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

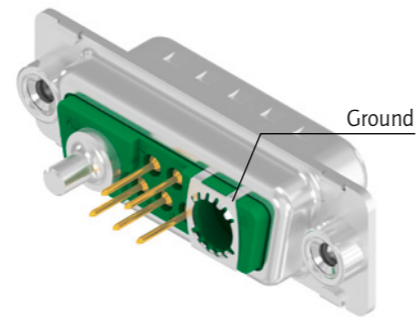
Technical specifications are subject to change without notice.

COMBINATION D-SUB CONNECTORS

Accessories

Grounding for coaxial contacts

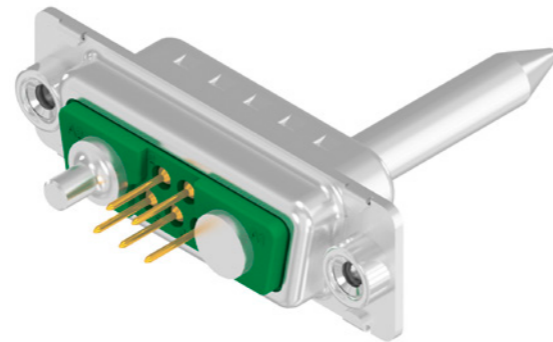
To optimize a perfect ground connection from the coaxial contact (outer conductor) to the metal shell. (Factory installed).



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

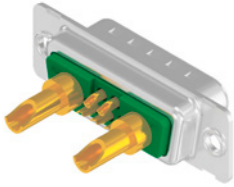
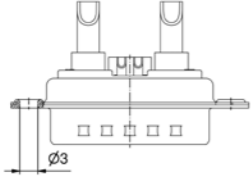
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAM99A30X	3005W1PAM99A30X
7W2					3007W2SAM99A30X	3007W2PAM99A30X
9W4					3009W4SAM99A30X	3009W4PAM99A30X
11W1					3011W1SAM99A30X	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

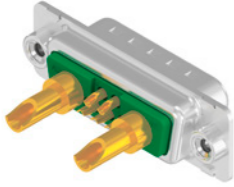
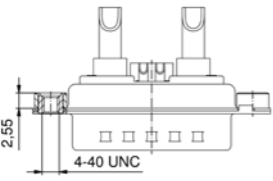
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

Through-hole Ø 3 mm			No. of poles	Current rating 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

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		

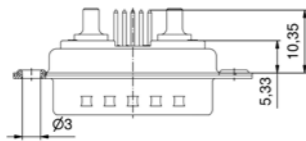
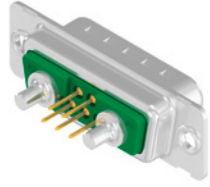
For other Power contacts select code from spread sheet

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



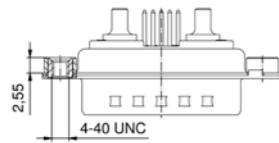
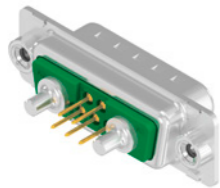
For other Power contacts select code from spread sheet

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

No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	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

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



For other Power contacts select code from spread sheet

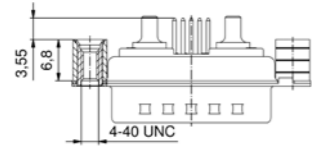
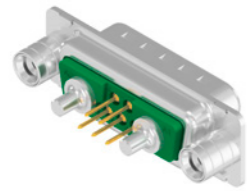
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	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

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

Solder pin, straight
Precision machined contacts

4-40 UNC threaded rear spacer



For other Power contacts select code from spread sheet

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

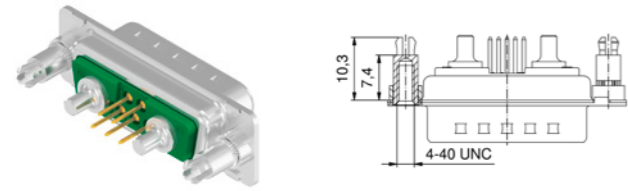
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UI) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR69A50X	3005W1PAR69A50X
7W2					3007W2SAR69A50X	3007W2PAR69A50X
9W4					3009W4SAR69A50X	3009W4PAR69A50X
11W1					3011W1SAR69A50X	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

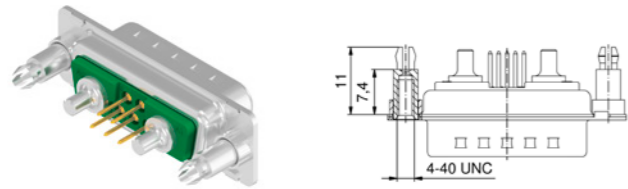


No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAR69E20X	3005W1PAR69E20X
7W2					3007W2SAR69E20X	3007W2PAR69E20X
9W4					3009W4SAR69E20X	3009W4PAR69E20X
11W1					3011W1SAR69E20X	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



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

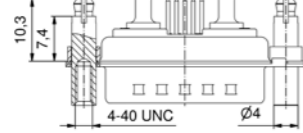
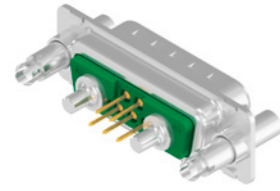
Code	Current rating	Diameter solder pin
69	20 A	2,60
71	30 A	3,18
72	40 A	3,75

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 front, threaded rear spacer clip for PCB 1.6 mm



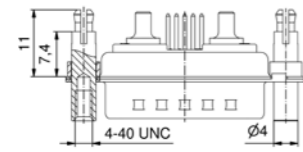
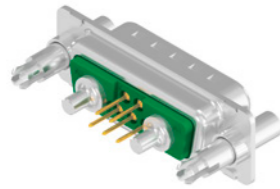
For other Power contacts select code from spread sheet

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

No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UI) / 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

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



For other Power contacts select code from spread sheet

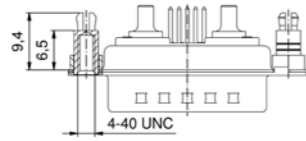
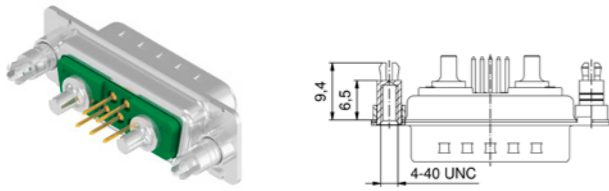
Code	Current rating	Diameter solder pin
69	20 A	2,60
71	30 A	3,18
72	40 A	3,75

No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UI) / 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

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



For other Power contacts select code from spread sheet

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

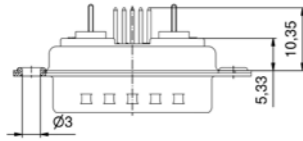
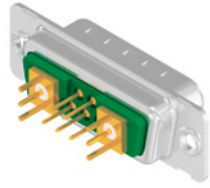
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UI)/ 5 (CSA, VDE)	250	E228329	3	3005W1SAR69C20X	3005W1PAR69C20X
7W2					3007W2SAR69C20X	3007W2PAR69C20X
9W4					3009W4SAR69C20X	3009W4PAR69C20X
11W1					3011W1SAR69C20X	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

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, straight
Precision machined contacts

Through-hole Ø 3 mm



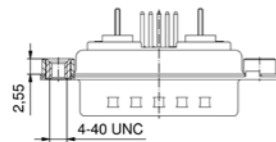
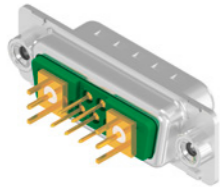
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UI) / 5 (CSA VDE)	250	E228329	3	3005W1SAR76A10X	3005W1PAR76A10X
7W2					3007W2SAR76A10X	3007W2PAR76A10X
9W4					3009W4SAR76A10X	3009W4PAR76A10X
11W1					3011W1SAR76A10X	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



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 (UI) / 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

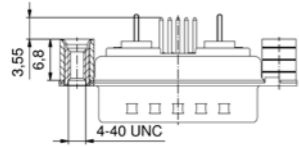
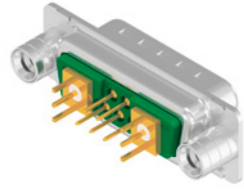
For other coaxial contacts select code from spread sheet

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



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 (UI) / 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

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

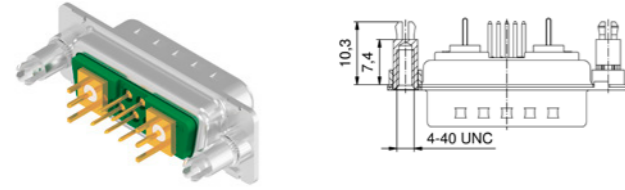
For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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



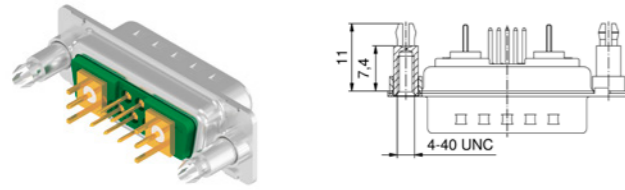
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UI) / 5 (CSA VDE)	250	E228329	3	3005W1SAR76E20X	3005W1PAR76E20X
7W2					3007W2SAR76E20X	3007W2PAR76E20X
9W4					3009W4SAR76E20X	3009W4PAR76E20X
11W1					3011W1SAR76E20X	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



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 (UI) / 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

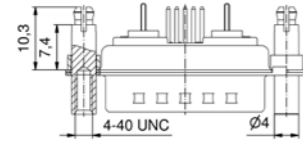
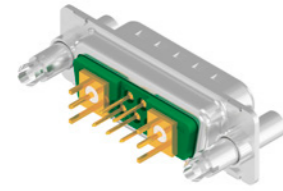
For other coaxial contacts select code from spread sheet

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

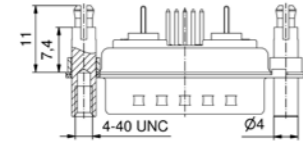
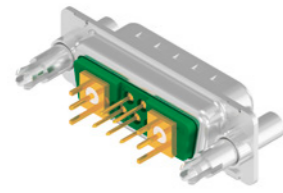


No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAR76F20X	3005W1PAR76F20X
7W2					3007W2SAR76F20X	3007W2PAR76F20X
9W4					3009W4SAR76F20X	3009W4PAR76F20X
11W1					3011W1SAR76F20X	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

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

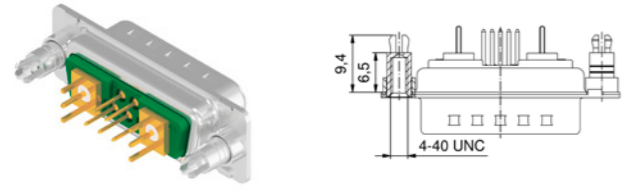
Code	Impedance
76	50 Ω
86	75 Ω

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

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

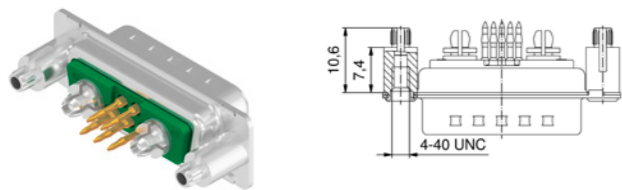
For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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



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	3005W1SAPP1W20X	3005W1PAPP1W20X
7W2					3007W2SAPP1W20X	3007W2PAPP1W20X
9W4					3009W4SAPP1W20X	3009W4PAPP1W20X
11W1					3011W1SAPP1W20X	3011W1PAPP1W20X
13W3					3013W3SAPP1W20X	3013W3PAPP1W20X
13W6					3013W6SAPP1W20X	3013W6PAPP1W20X
17W2					3017W2SAPP1W20X	3017W2PAPP1W20X
17W5					3017W5SAPP1W20X	3017W5PAPP1W20X
21W1					3021W1SAPP1W20X	3021W1PAPP1W20X
24W7					3024W7SAPP1W20X	3024W7PAPP1W20X
25W3					3025W3SAPP1W20X	3025W3PAPP1W20X
27W2					3027W2SAPP1W20X	3027W2PAPP1W20X
36W4					3036W4SAPP1W20X	3036W4PAPP1W20X
43W2					3043W2SAPP1W20X	3043W2PAPP1W20X
47W1					3047W1SAPP1W20X	3047W1PAPP1W20X
21WA4					321WA4SAPP1W20X	321WA4PAPP1W20X

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

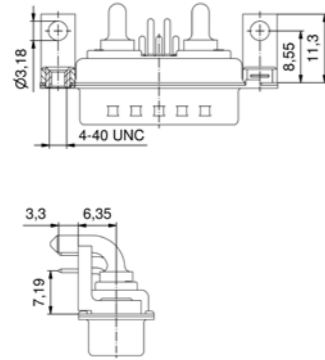
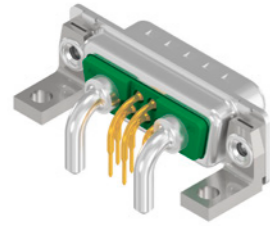
For other Power contacts select code from spread sheet

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

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

5W1
7W2
9W4
11W1
13W3
13W6
17W2
17W5
21W1
24W7
25W3
27W2
36W4
43W2
47W1
21WA4

75 (UI) / 5 (CSA VDE)
250
E228329
3

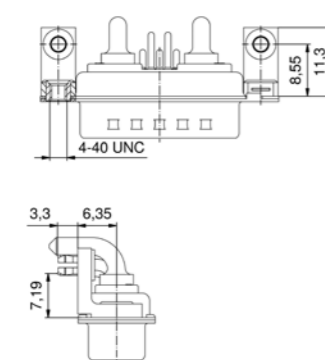
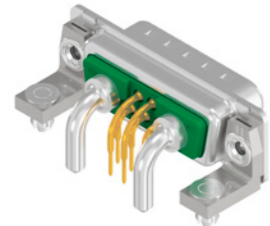
3005W1SAT73N20X
3007W2SAT73N20X
3009W4SAT73N20X
3011W1SAT73N20X
3013W3SAT73N20X
3013W6SAT73N20X
3017W2SAT73N20X
3017W5SAT73N20X
3021W1SAT73N20X
3024W7SAT81N20X
3025W3SAT73N20X
3027W2SAT73N20X
3036W4SAT81N20X
3043W2SAT81N20X
3047W1SAT81N20X
321WA4SAT73N20X

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



No. of poles
Current rating signal contacts [A]
Working voltage [V]
UL-File
Quality class
Part No. Socket contact

5W1
7W2
9W4
11W1
13W3
13W6
17W2
17W5
21W1
24W7
25W3
27W2
36W4
43W2
47W1
21WA4

75 (UI) / 5 (CSA VDE)
250
E228329
3

3005W1SAT73N40X
3007W2SAT73N40X
3009W4SAT73N40X
3011W1SAT73N40X
3013W3SAT73N40X
3013W6SAT73N40X
3017W2SAT73N40X
3017W5SAT73N40X
3021W1SAT73N40X
3024W7SAT81N40X
3025W3SAT73N40X
3027W2SAT73N40X
3036W4SAT81N40X
3043W2SAT81N40X
3047W1SAT81N40X
321WA4SAT73N40X

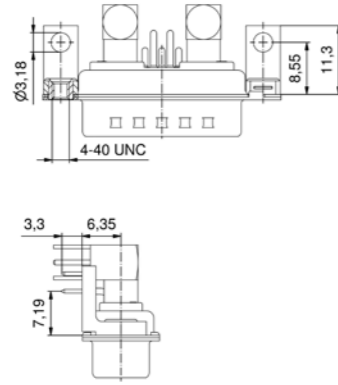
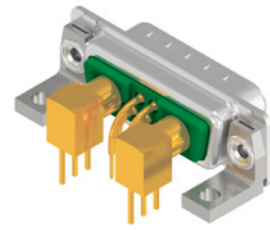
For other Power contacts select code from spread sheet

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, 3.18"/7.19 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert



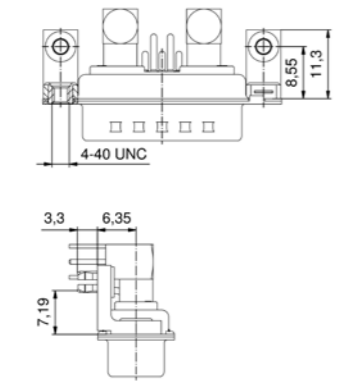
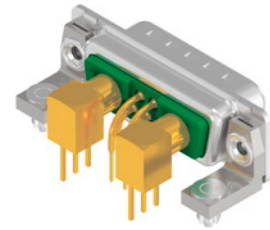
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
5W1	75 (UI) / 5 (CSA VDE)	250	E228329	3	3005W1SAT78N20X
7W2					3007W2SAT78N20X
9W4					3009W4SAT78N20X
11W1					3011W1SAT78N20X
13W3					3013W3SAT78N20X
13W6					3013W6SAT78N20X
17W2			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

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



No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	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

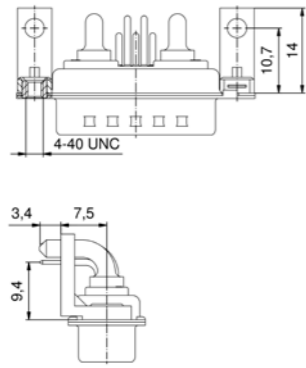
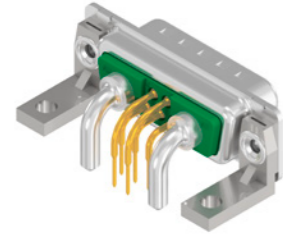
For other coaxial contacts select code from spread sheet

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

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

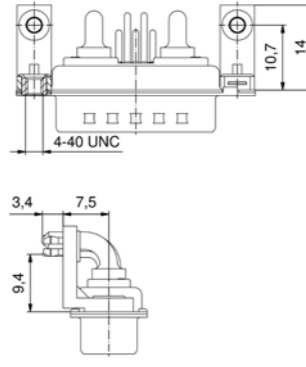
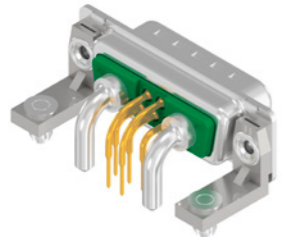


No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
5W1	75 (UI) / 5 (CSA VDE)	250	E228329	3	3005W1SAU73G20X
7W2					3007W2SAU73G20X
9W4					3009W4SAU73G20X
11W1					3011W1SAU73G20X
13W3					3013W3SAU73G20X
13W6					3013W6SAU73G20X
17W2			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

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



No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
5W1	75 (UI) / 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

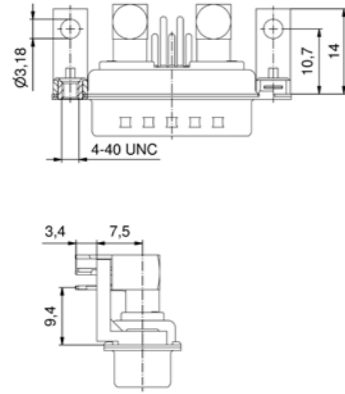
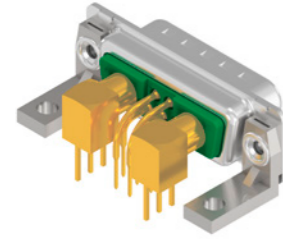
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

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, 3.70"/9.4 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

5W1
7W2
9W4
11W1
13W3
13W6
17W2
17W5
21W1
24W7
25W3
27W2
36W4
43W2
47W1
21WA4

75 (UI) / 5 (CSA VDE)
250
E228329
3

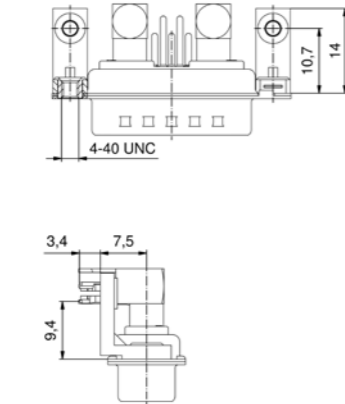
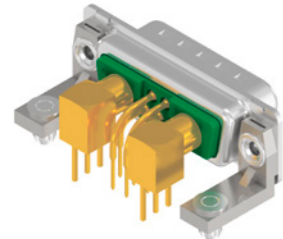
3005W1SAU78G20X
3007W2SAU78G20X
3009W4SAU78G20X
3011W1SAU78G20X
3013W3SAU78G20X
3013W6SAU78G20X
3017W2SAU78G20X
3017W5SAU78G20X
3021W1SAU78G20X
3024W7SAU79G20X
3025W3SAU78G20X
3027W2SAU78G20X
3036W4SAU79G20X
3043W2SAU79G20X
3047W1SAU79G20X
321WA4SAU78G20X

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



No. of poles
Current rating signal contacts [A]
Working voltage [V]
UL-File
Quality class
Part No. Socket contact

5W1
7W2
9W4
11W1
13W3
13W6
17W2
17W5
21W1
24W7
25W3
27W2
36W4
43W2
47W1
21WA4

75 (UI) / 5 (CSA VDE)
250
E228329
3

3005W1SAU78G40X
3007W2SAU78G40X
3009W4SAU78G40X
3011W1SAU78G40X
3013W3SAU78G40X
3013W6SAU78G40X
3017W2SAU78G40X
3017W5SAU78G40X
3021W1SAU78G40X
3024W7SAU79G40X
3025W3SAU78G40X
3027W2SAU78G40X
3036W4SAU79G40X
3043W2SAU79G40X
3047W1SAU79G40X
321WA4SAU78G40X

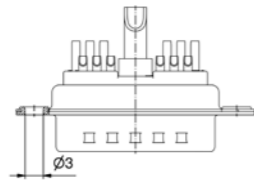
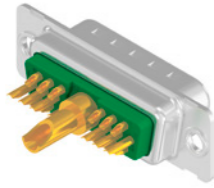
For other coaxial contacts select code from spread sheet

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



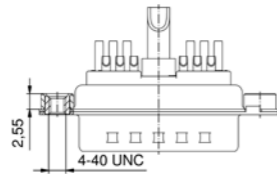
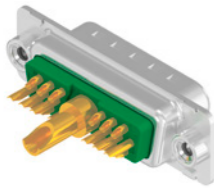
For other Power contacts select code from spread sheet

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

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

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



For other Power contacts select code from spread sheet

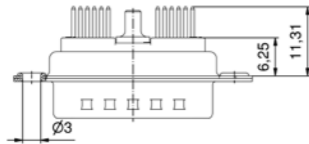
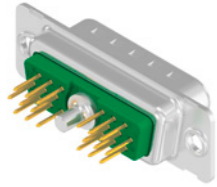
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A
63	10-12	30 A
64	8-10	40 A

No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAM62A30X	3H15W4PAM62A30X
19W1				3H19W1SAM62A30X	3H19W1PAM62A30X
45W2				3H45W2SAM62A30X	3H45W2PAM62A30X

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



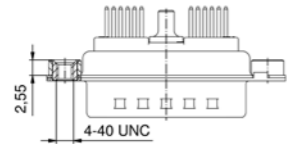
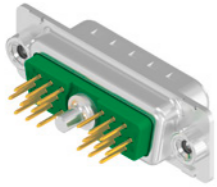
No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL VDE) / 2.5 (CSA)	60	3	3H15W4SAR69A10X	3H15W4PAR69A10X
19W1				3H19W1SAR69A10X	3H19W1PAR69A10X
45W2				3H45W2SAR69A10X	3H45W2PAR69A10X

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

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

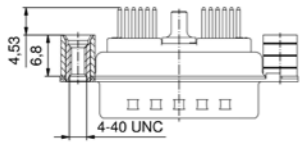
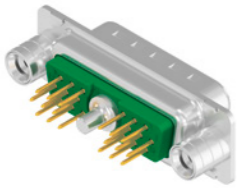


No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL VDE) / 2.5 (CSA)	60	3	3H15W4SAR69A30X	3H15W4PAR69A30X
19W1				3H19W1SAR69A30X	3H19W1PAR69A30X
45W2				3H45W2SAR69A30X	3H45W2PAR69A30X

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



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	3H15W4SAR69A50X	3H15W4PAR69A50X
19W1				3H19W1SAR69A50X	3H19W1PAR69A50X
45W2				3H45W2SAR69A50X	3H45W2PAR69A50X

For other Power contacts select code from spread sheet

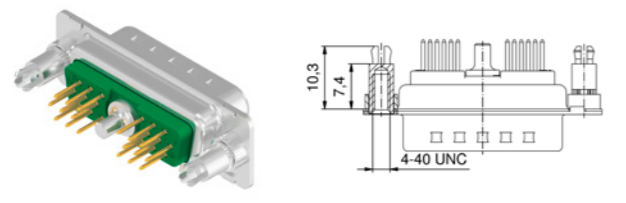
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

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

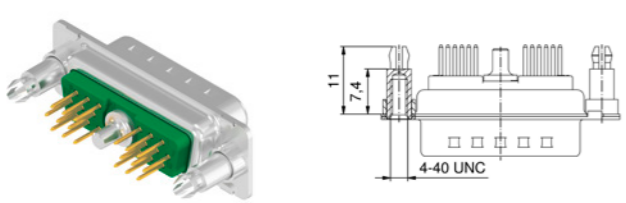
Solder pin, straight
Precision machined contacts

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

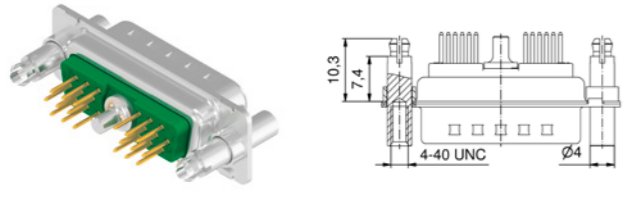
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

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																	
 <table border="1" data-bbox="105 559 438 735"> <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	15W4	3 (UL VDE) / 2.5 (CSA)	60	3	3H15W4SAR69E20X	3H15W4PAR69E20X
	Code	Current rating	Diameter solder pin																					
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69	20 A	2.60																						
70	20 A	2.85																						
71	30 A	3.18																						
72	40 A	3.75																						
19W1	3H19W1SAR69E20X	3H19W1PAR69E20X																						
45W2	3H45W2SAR69E20X	3H45W2PAR69E20X																						

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											
 <table border="1" data-bbox="105 1098 438 1232"> <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	3H15W4SAR69E40X	3H15W4PAR69E40X
	Code	Current rating	Diameter solder pin															
	69	20 A	2.60															
71	30 A	3.18																
72	40 A	3.75																
19W1	3H19W1SAR69E40X	3H19W1PAR69E40X																
45W2	3H45W2SAR69E40X	3H45W2PAR69E40X																

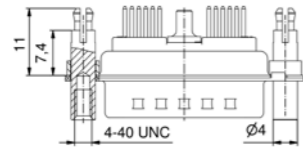
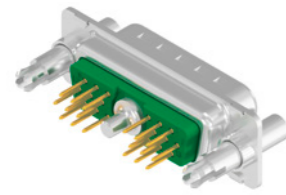
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm

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																	
 <table border="1" data-bbox="105 1543 438 1719"> <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	15W4	3 (UL VDE) / 2.5 (CSA)	60	3	3H15W4SAR69F20X	3H15W4PAR69F20X
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19W1	3H19W1SAR69F20X	3H19W1PAR69F20X																						
45W2	3H45W2SAR69F20X	3H45W2PAR69F20X																						

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
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69F40X	3H15W4PAR69F40X
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

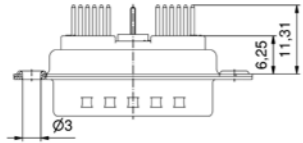
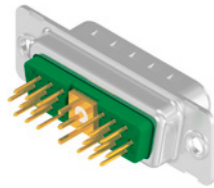
For other Power contacts select code from spread sheet

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

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

Solder pin, straight
Precision machined contacts

Through-hole Ø 3 mm



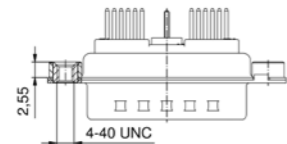
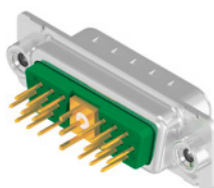
No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR76A10X	3H15W4PAR76A10X
19W1				3H19W1SAR76A10X	3H19W1PAR76A10X
45W2				3H45W2SAR76A10X	3H45W2PAR76A10X

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

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

4-40 UNC threaded insert



No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR76A30X	3H15W4PAR76A30X
19W1				3H19W1SAR76A30X	3H19W1PAR76A30X
45W2				3H45W2SAR76A30X	3H45W2PAR76A30X

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 & coaxial contacts 50 Ω

Solder pin, straight
Precision machined contacts

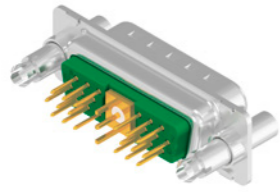
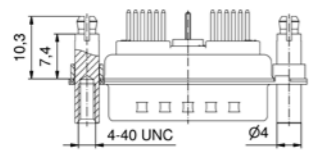
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

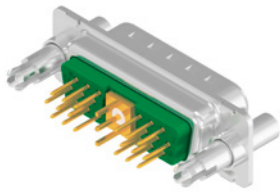
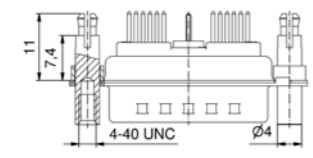
4-40 UNC threaded rear spacer		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact					
 	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR76A50X	3H15W4PAR76A50X						
	19W1				3H19W1SAR76A50X	3H19W1PAR76A50X						
	45W2				3H45W2SAR76A50X	3H45W2PAR76A50X						
<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					
Code	Impedance											
76	50 Ω											
86	75 Ω											
4-40 UNC threaded rear spacer clip for PCB 1.6 mm												
 	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR76E20X	3H15W4PAR76E20X						
	19W1				3H19W1SAR76E20X	3H19W1PAR76E20X						
	45W2				3H45W2SAR76E20X	3H45W2PAR76E20X						
<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					
Code	Impedance											
76	50 Ω											
86	75 Ω											
4-40 UNC threaded rear spacer clip for PCB 2.3 mm												
 	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR76E40X	3H15W4PAR76E40X						
	19W1				3H19W1SAR76E40X	3H19W1PAR76E40X						
	45W2				3H45W2SAR76E40X	3H45W2PAR76E40X						
<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					
Code	Impedance											
76	50 Ω											
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COMBINATION D-SUB CONNECTORS HIGH DENSITY
With signal contacts & coaxial contacts 50 Ω

Solder pin, straight
Precision machined contacts

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

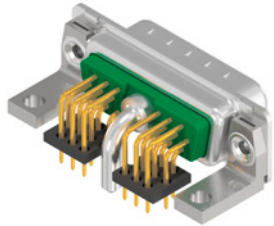
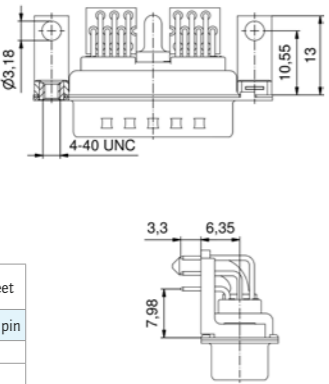
4-40 UNC front, threaded rear spacer clip for PCB 1,6 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact					
 	15W4	3 (UL VDE) / 2.5 (CSA)	60	3	3H15W4SAR76F20X	3H15W4PAR76F20X						
	19W1				3H19W1SAR76F20X	3H19W1PAR76F20X						
	45W2				3H45W2SAR76F20X	3H45W2PAR76F20X						
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Code	Impedance											
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86	75 Ω											

4-40 UNC front, threaded rear spacer clip for PCB 2,3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact					
 	15W4	3 (UL VDE) / 2.5 (CSA)	60	3	3H15W4SAR76F40X	3H15W4PAR76F40X						
	19W1				3H19W1SAR76F40X	3H19W1PAR76F40X						
	45W2				3H45W2SAR76F40X	3H45W2PAR76F40X						
<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					
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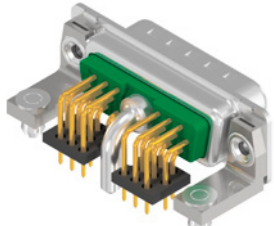
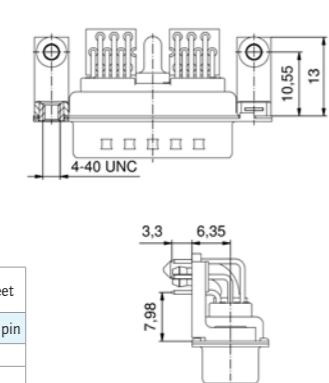
COMBINATION D-SUB CONNECTORS HIGH DENSITY
With signal contacts & high power contacts 20 A

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

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"> <caption>For other Power contacts select code from spread sheet</caption> <thead> <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>	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	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAT73G60X	3H15W4PAT73G60X
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45W2	3H45W2SAT73G60X	3H45W2PAT73G60X																			

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

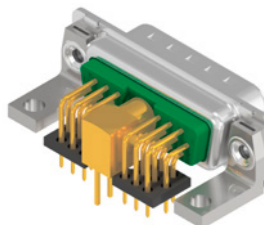
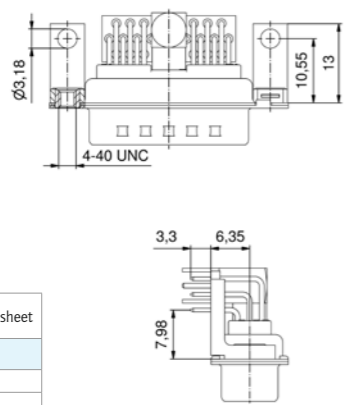
Clip for PCB 1.6 mm, 4-40 UNC threaded insert			No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact													
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73	20 A	2.85																			
74	30 A	3.20																			
75	40 A	3.75																			
19W1	3H19W1SAT73G80X	3H19W1PAT73G80X																			
45W2	3H45W2SAT73G80X	3H45W2PAT73G80X																			

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

4-40 UNC threaded insert

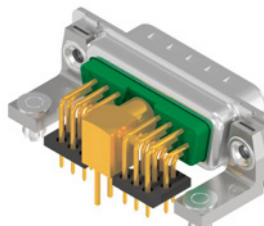
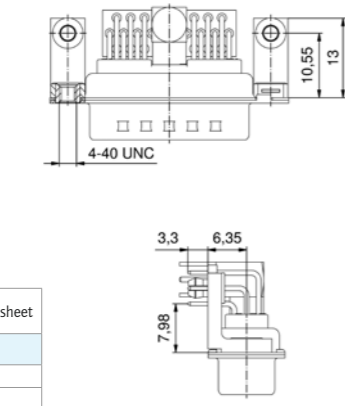



Code	Impedance
78	50 Ω
88	75 Ω

No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAT78G60X	3H15W4PAT78G60X
19W1				3H19W1SAT78G60X	3H19W1PAT78G60X
45W2				3H45W2SAT78G60X	3H45W2PAT78G60X

For other coaxial contacts select code from spread sheet

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

Code	Impedance
78	50 Ω
88	75 Ω

No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAT78G80X	3H15W4PAT78G80X
19W1				3H19W1SAT78G80X	3H19W1PAT78G80X
45W2				3H45W2SAT78G80X	3H45W2PAT78G80X

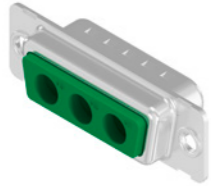
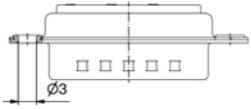

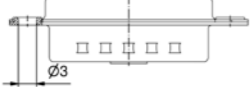

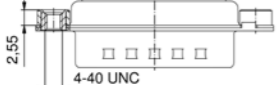

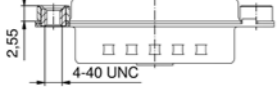
For other coaxial contacts select code from spread sheet

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
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

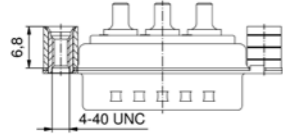
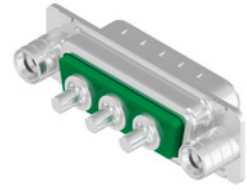
Through-hole Ø 3 mm		No. of poles	UL-File	Part No. Socket contact	Part No. Plug contact
 	3W3	E228329		3003W3SXX99A10X	3003W3PXX99A10X
	5W5			3005W5SXX99A10X	3005W5PXX99A10X
	8W8			3008W8SXX99A10X	3008W8PXX99A10X
Through-hole Ø 3 mm, coded version					
 	2W2C	E228329		302W2CSXX99A10X	302W2CPXX99A10X
	3W3C			303W3CSXX99A10X	303W3CPXX99A10X
4-40 UNC threaded insert					
 	3W3	E228329		3003W3SXX99A30X	3003W3PXX99A30X
	5W5			3005W5SXX99A30X	3005W5PXX99A30X
	8W8			3008W8SXX99A30X	3008W8PXX99A30X
4-40 UNC threaded insert, coded version					
 	2W2C	E228329		302W2CSXX99A30X	302W2CPXX99A30X
	3W3C			303W3CSXX99A30X	303W3CPXX99A30X

COMBINATION D-SUB CONNECTORS
With high power contacts 20 A

Solder pin, straight

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



No. of poles

UL-File

Quality class

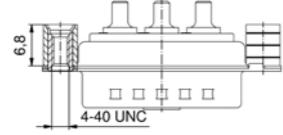
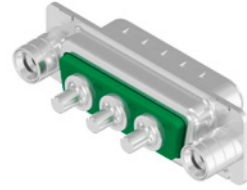
Part No. Socket contact Part No. Plug contact

3W3	E228329	3	3003W3SXX69A50X	3003W3PXX69A50X
5W5			3005W5SXX69A50X	3005W5PXX69A50X
8W8			3008W8SXX69A50X	3008W8PXX69A50X

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, coded version

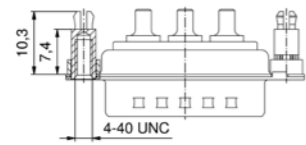
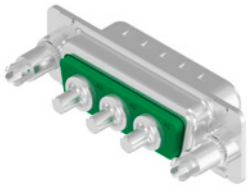


2W2C	E228329	3	302W2CSXX69A50X	302W2CPXX69A50X
3W3C			303W3CSXX69A50X	303W3CPXX69A50X

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 1.6 mm



3W3	E228329	3	3003W3SXX69E20X	3003W3PXX69E20X
5W5			3005W5SXX69E20X	3005W5PXX69E20X
8W8			3008W8SXX69E20X	3008W8PXX69E20X

For other Power contacts select code from spread sheet

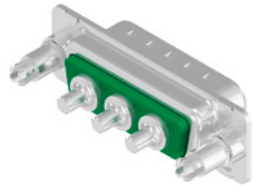
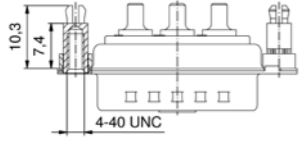
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

COMBINATION D-SUB CONNECTORS
With high power contacts 20 A

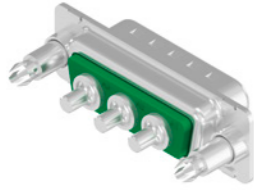
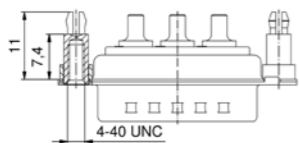
Solder pin, straight

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

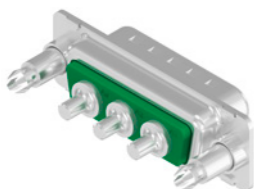
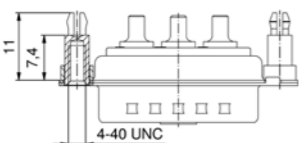
4-40 UNC threaded rear spacer clip for PCB 1.6 mm, coded version

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																	
 	2W2C	E228329	3	302W2CSXX69E20X	302W2CPXX69E20X																			
	3W3C			303W3CSXX69E20X	303W3CPXX69E20X																			
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>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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68	20 A	1.95																						
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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	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact											
 	3W3	E228329	3	3003W3SXX69E40X	3003W3PXX69E40X													
	5W5			3005W5SXX69E40X	3005W5PXX69E40X													
	8W8			3008W8SXX69E40X	3008W8PXX69E40X													
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				
Code	Current rating	Diameter solder pin																
69	20 A	2,60																
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72	40 A	3,75																

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											
 	2W2C	E228329	3	302W2CSXX69E40X	302W2CPXX69E40X													
	3W3C			303W3CSXX69E40X	303W3CPXX69E40X													
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				
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 high power contacts 20 A

Solder pin, straight

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

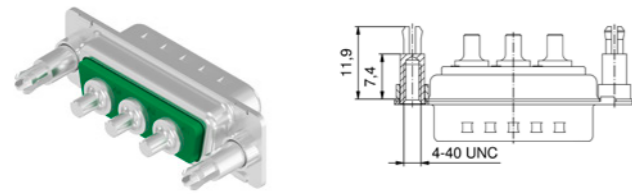
No. of poles

UL-File

Quality class

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



3W3

E228329

3

3003W3SXX69E60X 3003W3PXX69E60X

5W5

3005W5SXX69E60X 3005W5PXX69E60X

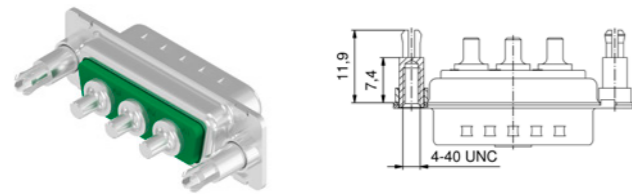
8W8

3008W8SXX69E60X 3008W8PXX69E60X

For other Power contacts select code from spread sheet

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

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



2W2C

E228329

3

302W2CSXX69E60X 302W2CPXX69E60X

3W3C

303W3CSXX69E60X 303W3CPXX69E60X

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 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

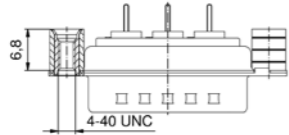
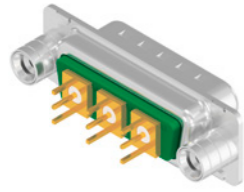
4-40 UNC threaded rear spacer

No. of poles

UL-File

Quality class

Part No. Socket contact Part No. Plug contact



3W3

E228329

3

3003W3SXX76A50X 3003W3PXX76A50X

5W5

3005W5SXX76A50X 3005W5PXX76A50X

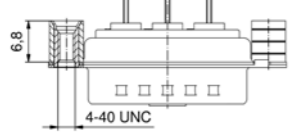
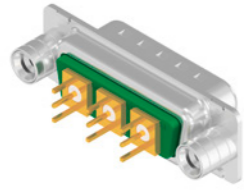
8W8

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

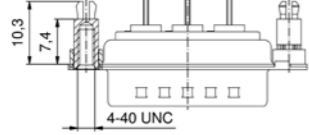
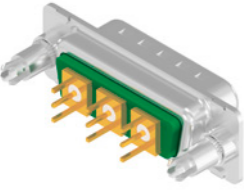
3W3C

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

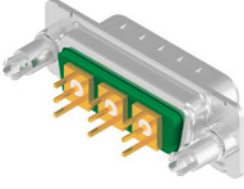
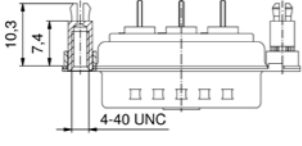
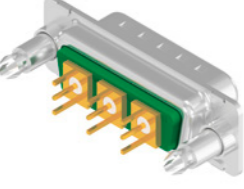
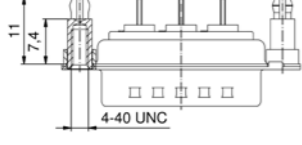
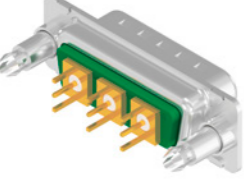
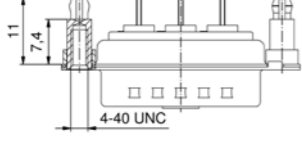
For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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						
<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				
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						
<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				
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						
<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				
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

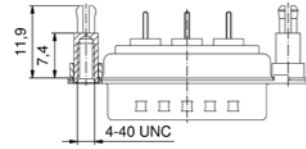
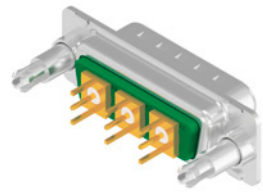
No. of poles

UL-File

Quality class

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

Part No. Socket contact Part No. Plug contact



3W3

E228329

3

3003W3SXX76E60X

3003W3PXX76E60X

5W5

3005W5SXX76E60X

3005W5PXX76E60X

8W8

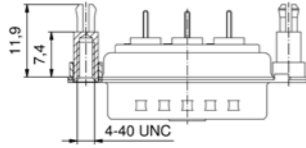
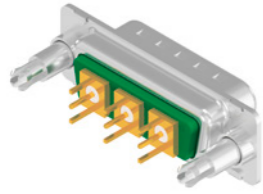
3008W8SXX76E60X

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

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

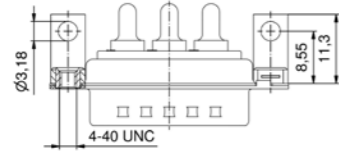
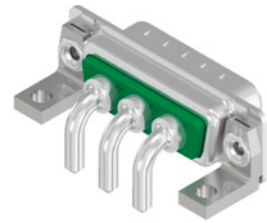
4-40 UNC threaded insert

No. of poles

UL-File

Quality class

Part No. Socket contact Part No. Plug contact



3W3

E228329

3

3003W3SXX73N20X 3003W3PXX73N20X

5W5

3005W5SXX73N20X 3005W5PXX73N20X

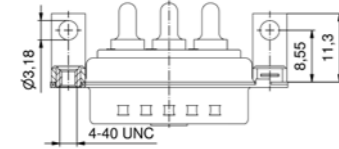
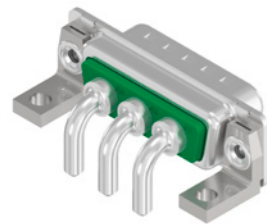
8W8

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



2W2C

E228329

3

302W2CSXX73N20X 302W2CPXX73N20X

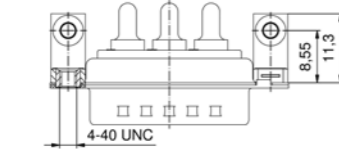
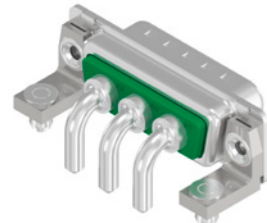
3W3C

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



3W3

E228329

3

3003W3SXX73N40X 3003W3PXX73N40X

5W5

3005W5SXX73N40X 3005W5PXX73N40X

8W8

3008W8SXX73N40X 3008W8PXX73N40X

For other Power contacts select code from spread sheet

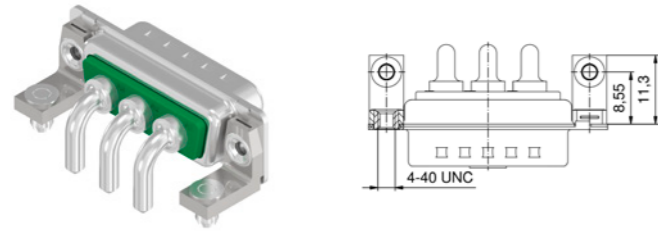
Code	Current rating	Diameter solder pin
59	15 A	1.90
73	20 A	2.85
74	30 A	3.20
75	40 A	3.75

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

No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	E228329	3	302W2CSXX73N40X	302W2CPXX73N40X
3W3C			303W3CSXX73N40X	303W3CPXX73N40X



For other Power contacts select code from spread sheet

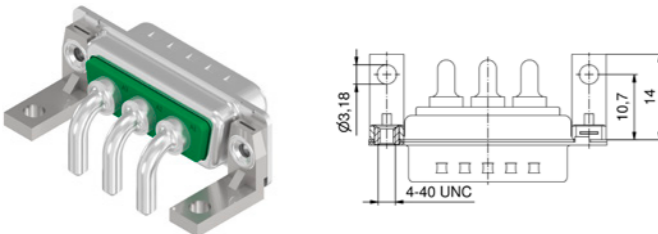
Code	Current rating	Diameter solder pin
59	15 A	1.90
73	20 A	2.85
74	30 A	3.20
75	40 A	3.75

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

Solder pin, angled
Long 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	3003W3SXX73G20X	3003W3PXX73G20X
5W5			3005W5SXX73G20X	3005W5PXX73G20X
8W8			3008W8SXX73G20X	3008W8PXX73G20X

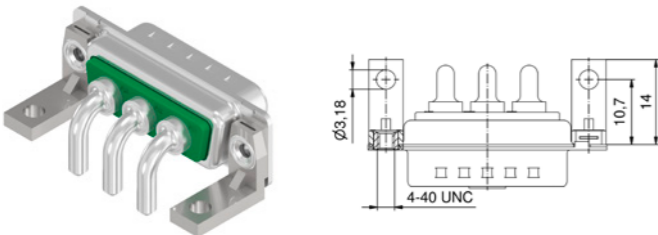


For other Power contacts select code from spread sheet

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	302W2CSXX73G20X	302W2CPXX73G20X
3W3C			303W3CSXX73G20X	303W3CPXX73G20X



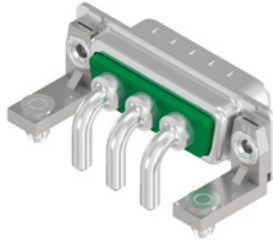
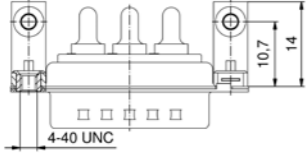
For other Power contacts select code from spread sheet

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

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

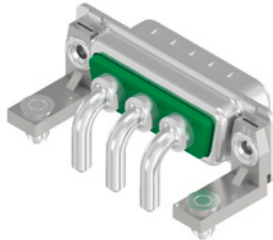
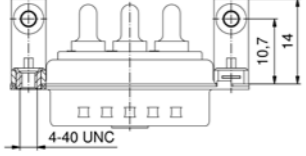
			No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	3W3	E228329	3	3003W3SXX73G40X	3003W3PXX73G40X		
	5W5					3005W5SXX73G40X	3005W5PXX73G40X
	8W8					3008W8SXX73G40X	3008W8PXX73G40X

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	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, coded Version

			No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	2W2C	E228329	3	302W2CSXX73G40X	302W2CPXX73G40X		
	3W3C					303W3CSXX73G40X	303W3CPXX73G40X

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

COMBINATION D-SUB CONNECTORS
With coaxial contacts 50 Ω

Solder pin, angled
Short metal bracket

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

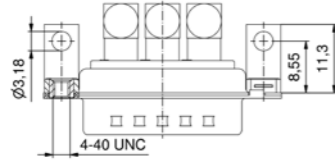
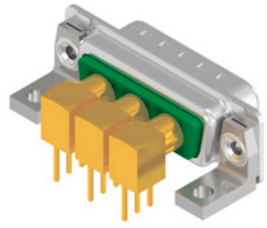
4-40 UNC threaded insert

No. of poles

UL-File

Quality class

Part No. Socket contact Part No. Plug contact



3W3

5W5

8W8

E228329

3

3003W3SXX78N20X 3003W3PXX78N20X

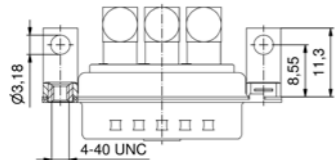
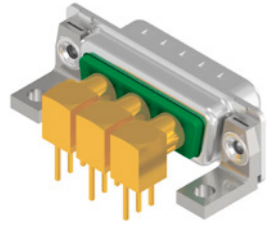
3005W5SXX78N20X 3005W5PXX78N20X

3008W8SXX78N20X 3008W8PXX78N20X

For other coaxial contacts select code from spread sheet

Code	Impedance
78	50 Ω
88	75 Ω

4-40 UNC threaded insert, coded version



2W2C

3W3C

E228329

3

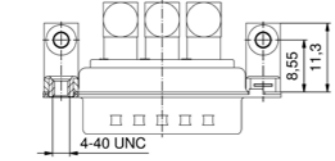
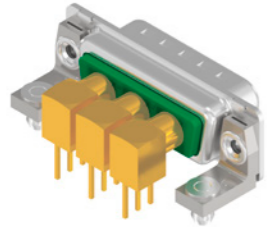
302W2CSXX78N20X 302W2CPXX78N20X

303W3CSXX78N20X 303W3CPXX78N20X

For other coaxial contacts select code from spread sheet

Code	Impedance
78	50 Ω
88	75 Ω

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



3W3

5W5

8W8

E228329

3

3003W3SXX78N40X 3003W3PXX78N40X

3005W5SXX78N40X 3005W5PXX78N40X

3008W8SXX78N40X 3008W8PXX78N40X

For other coaxial contacts select code from spread sheet

Code	Impedance
78	50 Ω
88	75 Ω

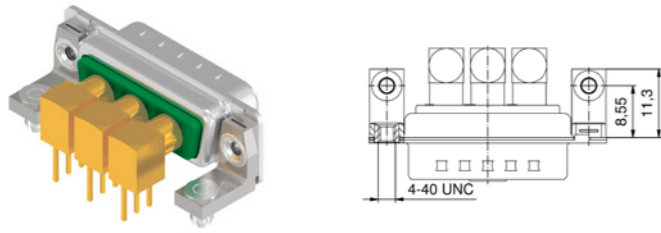
COMBINATION D-SUB CONNECTORS
With coaxial contacts 50 Ω

Solder pin, angled
Short metal bracket

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

No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	E228329	3	302W2CSXX78N40X	302W2CPXX78N40X
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



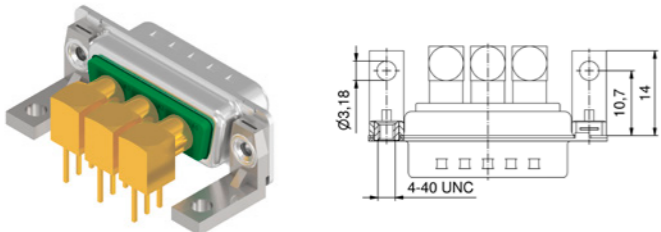
For other coaxial contacts select code from spread sheet

Code	Impedance
78	50 Ω
88	75 Ω

Solder pin, angled
Long metal bracket

4-40 UNC threaded insert

3W3	E228329	3	3003W3SXX78G20X	3003W3PXX78G20X
5W5			3005W5SXX78G20X	3005W5PXX78G20X
8W8			3008W8SXX78G20X	3008W8PXX78G20X

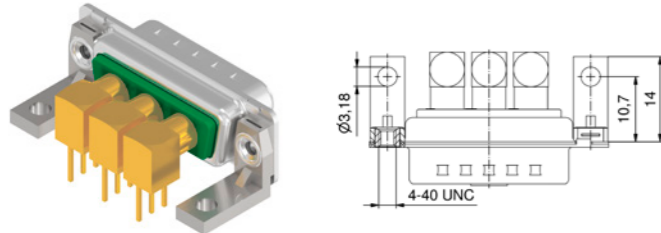


For other coaxial contacts select code from spread sheet

Code	Impedance
78	50 Ω
88	75 Ω

4-40 UNC threaded insert, coded version

2W2C	E228329	3	302W2CSXX78G20X	302W2CPXX78G20X
3W3C			303W3CSXX78G20X	303W3CPXX78G20X



For other coaxial contacts select code from spread sheet

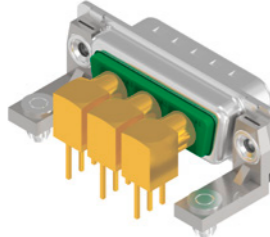
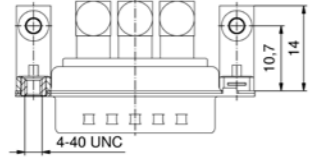
Code	Impedance
78	50 Ω
88	75 Ω

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

No. of poles		UL-File	Quality class	Part No. Socket contact		Part No. Plug contact	
3W3				E228329	3	3003W3SXX78G40X	
5W5		3005W5SXX78G40X				3005W5PXX78G40X	
8W8		3008W8SXX78G40X				3008W8PXX78G40X	

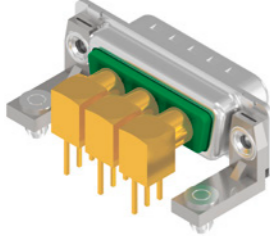
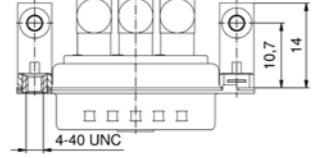



For other coaxial contacts select code from spread sheet

Code	Impedance
78	50 Ω
88	75 Ω

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	
2W2C				E228329	3	302W2CSXX78G40X	
3W3C		303W3CSXX78G40X				303W3CPXX78G40X	

For other coaxial contacts select code from spread sheet

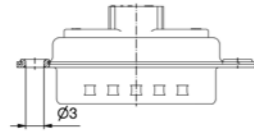
Code	Impedance
78	50 Ω
88	75 Ω

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
Without contacts

Crimp body
AWG 20-24 and AWG 26-28

Through-hole \varnothing 3 mm



No. of poles

UL-File

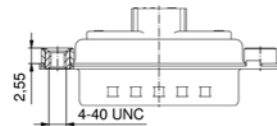
Shell: Steel tin plated
On request:
• Brass tin plated or stainless steel
• M3 thread

Part No. Socket contact	Part No. Plug contact
3005W1SXX99A10X	3005W1PXX99A10X
3007W2SXX99A10X	3007W2PXX99A10X
3009W4SXX99A10X	3009W4PXX99A10X
3011W1SXX99A10X	3011W1PXX99A10X
3013W3SXX99A10X	3013W3PXX99A10X
3013W6SXX99A10X	3013W6PXX99A10X
3017W2SXX99A10X	3017W2PXX99A10X
3017W5SXX99A10X	3017W5PXX99A10X
3021W1SXX99A10X	3021W1PXX99A10X
3024W7SXX99A10X	3024W7PXX99A10X
3025W3SXX99A10X	3025W3PXX99A10X
3027W2SXX99A10X	3027W2PXX99A10X
3036W4SXX99A10X	3036W4PXX99A10X
3043W2SXX99A10X	3043W2PXX99A10X
3047W1SXX99A10X	3047W1PXX99A10X
321WA4SXX99A10X	321WA4PXX99A10X

5W1
7W2
9W4
11W1
13W3
13W6
17W2
17W5
21W1
24W7
25W3
27W2
36W4
43W2
47W1
21WA4

E228329

4-40 UNC threaded insert



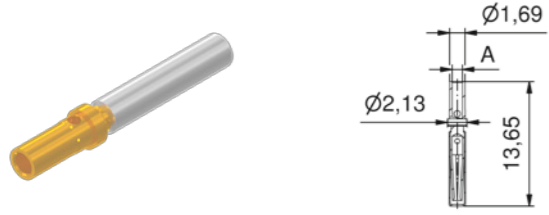

5W1
7W2
9W4
11W1
13W3
13W6
17W2
17W5
21W1
24W7
25W3
27W2
36W4
43W2
47W1
21WA4

E228329

3005W1SXX99A30X	3005W1PXX99A30X
3007W2SXX99A30X	3007W2PXX99A30X
3009W4SXX99A30X	3009W4PXX99A30X
3011W1SXX99A30X	3011W1PXX99A30X
3013W3SXX99A30X	3013W3PXX99A30X
3013W6SXX99A30X	3013W6PXX99A30X
3017W2SXX99A30X	3017W2PXX99A30X
3017W5SXX99A30X	3017W5PXX99A30X
3021W1SXX99A30X	3021W1PXX99A30X
3024W7SXX99A30X	3024W7PXX99A30X
3025W3SXX99A30X	3025W3PXX99A30X
3027W2SXX99A30X	3027W2PXX99A30X
3036W4SXX99A30X	3036W4PXX99A30X
3043W2SXX99A30X	3043W2PXX99A30X
3047W1SXX99A30X	3047W1PXX99A30X
321WA4SXX99A30X	321WA4PXX99A30X

**COMBINATION D-SUB CONNECTORS
Contacts**


**Signal contacts
crimp**

		AWG	Current rating [A]	ØA [mm]	Quality class	UL-File	Part No.
Socket contact closed entry							
	20-24	1.12	C	E228329	132C15019X		
	24-28	0.6			132C15029X		
Socket contact							
	20-24	1.12	A	E228329	162A18709X		
	24-28	0.64			162A18719X		

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

**COMBINATION D-SUB CONNECTORS
Contacts**

**Signal contacts
crimp**

		AWG	Current rating [A]	ØA [mm]	Quality class	UL-File	Part No.
Plug contact							
	20-24	1.1	A	E228329	131A15019X		
	24-28	0.65			131A15029X		

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

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

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

COMBINATION D-SUB CONNECTORS
Contacts

High power contacts
Solder cup, straight


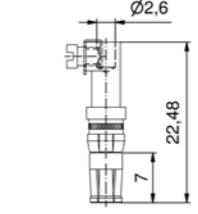
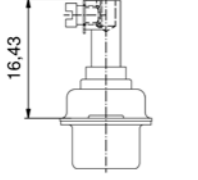

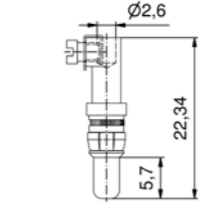
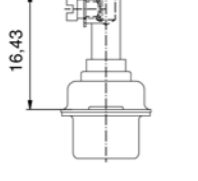

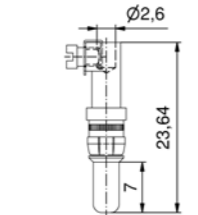
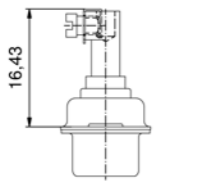
Plug contact, premating		AWG	Current rating [A]	Ø Termination A= [mm]	Quality class	UL-File	Part No.
	16-20	10	1.8	C	E228329	131C10119X	
	12-14	20	2.7			131C10129X	
	10-12	30	3.5			131C10139X	
	8-10	40	4.8			131C10149X	

Quality class 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	E228329	132C36009X
				A	
Plug contact		AWG	Current rating [A]	UL-File	Part No.
  	14	20	C	E228329	131C36009X
				A	
Plug contact, pre mating		AWG	Current rating [A]	UL-File	Part No.
  	14	20	C	E228329	131C36109X

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		AWG	Current rating [A]	Ø Termination A= [mm]	Quality class	UL-File	Part No.
		16-20	10	1.7	C	E228329	132C11019X
					A		132A11019X
		12-14	20	2.6	C		132C11029X
					A		132A11029X
		10-12	30	3.7	C		132C11039X
					A		132A11039X
	8-10	40	4.6	C	132C11049X		
				A	132A11049X		
Plug contact							
		16-20	10	1.7	C	E228329	131C11019X
					A		131A11019X
		12-14	20	2.6	C		131C11029X
					A		131A11029X
		10-12	30	3.7	C		131C11039X
					A		131A11039X
	8-10	40	4.6	C	131C11049X		
				A	131A11049X		
Plug contact, premating							
		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	AWG	Current rating [A]	Ø Termination A= [mm]	Quality class	UL-File	Part No.
	16-20	10	1.7	C	E228329	131C16019X
				A		131A16019X
	12-14	20	2.6	C		131C16029X
				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
	10-12	30	3.7	C		131C16039X

COMBINATION D-SUB CONNECTORS
Contacts

High power contacts
Crimp, angled

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

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

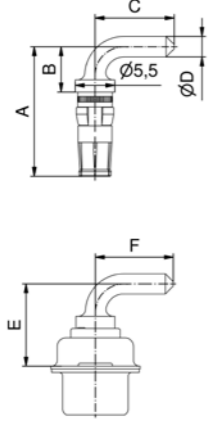
COMBINATION D-SUB CONNECTORS
Contacts

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	Part No.
1-4	15	55	2.3	C	E228329	132C13009X
		59		A		132A13009X
	20	56	3.2	C		132C13019X
		73		A		132A13019X
	30	57	3.6	C		132C13029X
		74		A		132A13029X
40	58	4.1	C	132C13039X		
	75		A	132A13039X		
5	20	66	3.2	C		132C13060X
		81		A		132A13060X
	30	67	3.6	C		132C13070X
		82		A		132A13070X
		65		C	132C13059X	
	40	85	4.1	A	132A13059X	
60		C		132C13049X		
77	A	132A13049X				



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

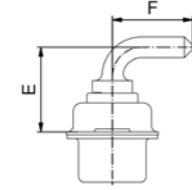
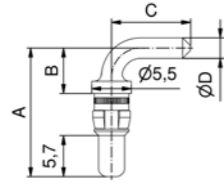
COMBINATION D-SUB CONNECTORS
Contacts

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	Part No.
1-4	15	55	2.3	C	E228329	131C13009X
		59		A		131A13009X
	20	56	3.2	C		131C13019X
		73		A		131A13019X
	30	57	3.6	C		131C13029X
		74		A		131A13029X
40	58	4.1	C	131C13039X		
	75		A	131A13039X		
5	20	66	3.2	C		131C13060X
		81		A		131A13060X
	30	67	3.6	C		131C13070X
		82		A		131A13070X
		65		C	131C13059X	
	40	85	4.1	A	131A13059X	
		60		C	131C13049X	
		77		A	131A13049X	



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

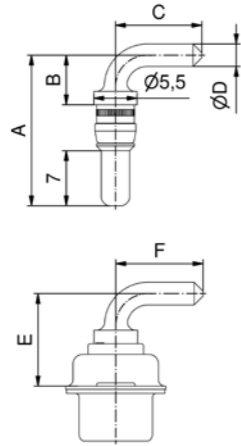
COMBINATION D-SUB CONNECTORS
Contacts

High power contacts
Solder pin, angled

Plug contact, premating

Shell size	Current rating [A]	Hole diameter of PCB [mm]	Quality class
1-4	15	2.3	C
	20	3.2	
	30	3.6	
	40	4.1	
5	20	3.2	
	30	3.6	
	40	4.1	

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.
1-4	15	2.3	C	131C13109X
	20	3.2		131C13119X
	30	3.6		131C13129X
	40	4.1		131C13139X
5	20	3.2		131C13160X
	30	3.6		131C13170X
	40	4.1		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

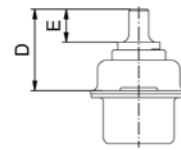
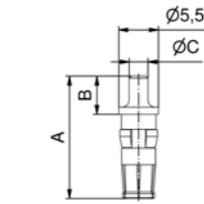
**COMBINATION D-SUB CONNECTORS
Contacts**

High power contacts
Solder pin, straight

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

Socket contact

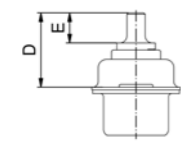
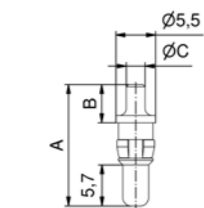
Shell size	Current rating [A]	Code use with part no. creator	Hole diameter of PCB [mm]	Quality class	UL-File	Part No.
1-5	20	48	2.3	C	E228329	132C12019X
		68		A		132A12019X
	30	49	3	C		132C12029X
		69		A		132A12029X
	40	50	3.2	C		132C12039X
		70		A		132A12039X
		51	3.6	C		132C12049X
		71		A		132A12049X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



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

Plug contact

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

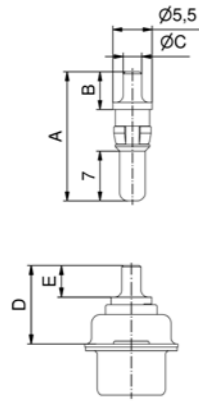


Current rating [A]	Termination	A	B	C Ø	D	E
20	48/68	15.84	4.60	1.95	9.65	3.80
20	49/69	16.84	5.30	2.60	10.65	4.30
20	50/70	16.24	4.70	2.85	10.05	3.70
30	51/71	19.04	7.50	3.18	12.85	6.70
40	52/72	17.29	5.75	3.75	11.10	4.75

COMBINATION D-SUB CONNECTORS
Contacts

High power contacts
Solder pin, straight

Plug contact, premating



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


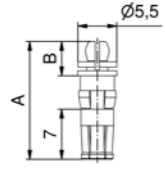
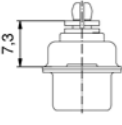
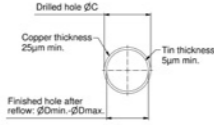
Quality class 1 (C) = 500 mating cycles
On request:
• Quality class 3 (A) = 50 mating cycles

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


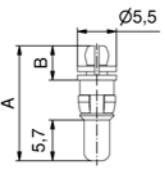
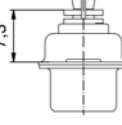
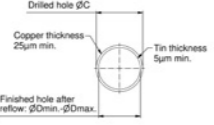
**COMBINATION D-SUB CONNECTORS
Contacts**

**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	E228329	C	132C00229A	
			P2	3.25			132C00299A	
			P4	3.2			132C19019X	

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


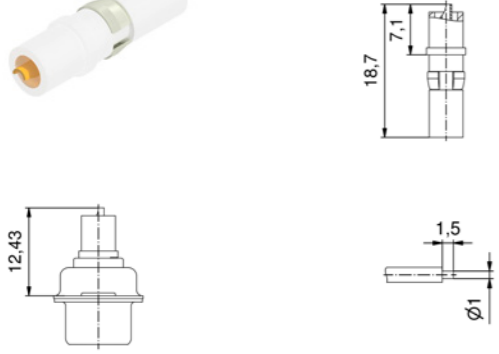

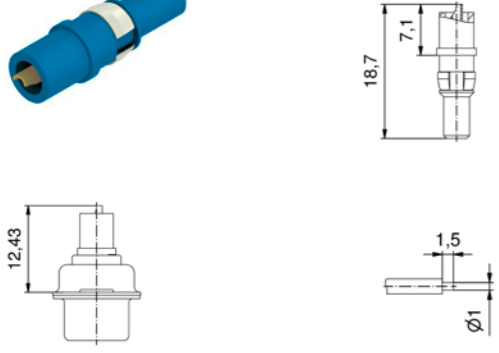
Plug contact		Shell size	Current rating [A]	Code use with part no. creator	Hole diameter of PCB [mm]	Quality class	UL-File	Part No.
   	1-5	30	P1	3.11	E228329	C	131C00319A	
			P2	3.25			131C00389A	
			P4	3.2			131C19019X	

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 >= 500 mating cycles

Socket contact		AWG	Working voltage max. [kV]	Quality class	UL-File	Part No.
 	20	2.8	J	E228329	132J14019X	
Plug contact						
 	20	2.8	J	E228329	131J14019X	

**COMBINATION D-SUB CONNECTORS
Contacts**

High voltage contacts
Solder termination, angled

Quality class J >= 500 mating cycles

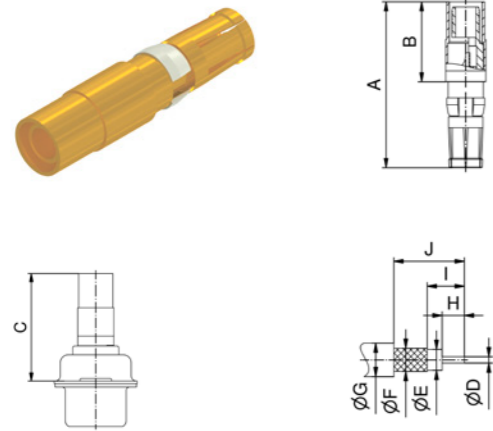
Socket contact		AWG	Working voltage max. [kV]	Quality class	UL-File	Part No.
		20	2.8	J	E228329	132J14519X
Plug contact						
		20	2.8	J	E228329	131J14519X

**COMBINATION D-SUB CONNECTORS
Contacts**

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

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

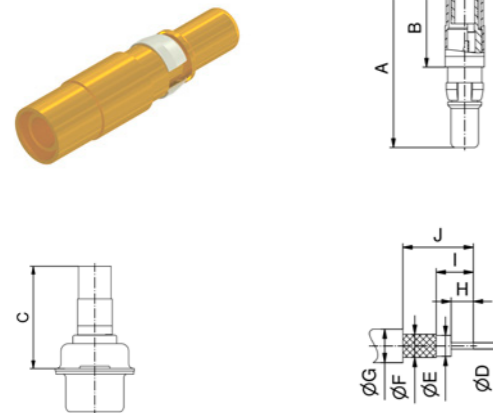
Socket contact



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

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

Plug contact



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

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

**COMBINATION D-SUB CONNECTORS
Contacts**

Coaxial contacts, straight
Inner and outer conductor crimp termination

Quality class J >= 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 Ø	E Ø	F Ø	G Ø	H
50	174U, 188AU, 316U	23.00	11.20	16.60	0.60	1.90	2.30	3.20	9.30
	316U double braided	23.00	11.20	16.60	0.60	1.90	3.00	3.80	9.30
	58CU, 141AU	22.70	10.90	16.30	1.30	3.70	4.30	5.20	9.30
75	179BU, 187AU	22.95	11.20	16.70	0.60	1.90	2.30	3.20	9.30
	180BU	22.15	10.40	15.90	0.60	2.80	4.50	4.50	8.80

Plug contact

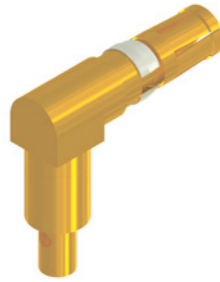
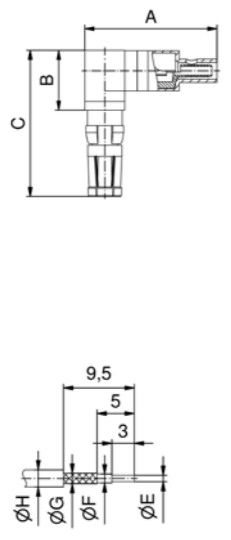
Impedance Ω	Cable	Quality class	UL-File	Part No.
50	174 /U, 188 A/U, 316 /U	J	E228329	131J21019X
		A		131A21019X
	316 /U double braided	J		131J21029X
		A		131A21029X
	58 C/U, 141 A/U	J		131J21039X
		A		131A21039X
75	179 B/U, 187 A/U	J		131J31019X
		A		131A31019X
	180 B/U	J		131J31029X
		A		131A31029X


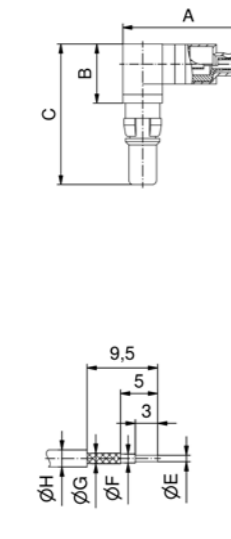
Impedance Ω	Usable Cable RG	A	B	C	D Ø	E Ø	F Ø	G Ø	H
50	174U, 188AU, 316U	22.50	11.20	16.60	0.60	1.90	2.30	3.20	9.30
	316U double braided	22.50	11.20	16.60	0.60	1.90	3.00	3.80	9.30
	58CU, 141AU	22.20	10.90	16.30	1.30	3.70	4.30	5.20	9.30
75	179BU, 187AU	22.45	11.20	16.70	0.60	1.90	2.30	3.20	9.30
	180BU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

**COMBINATION D-SUB CONNECTORS
Contacts**

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

Quality class J >= 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						
			J		132J22029X						
			A		132A22029X						
			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						
			J		131J22029X						
			A		131A22029X						
			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 >= 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**

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	

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

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

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

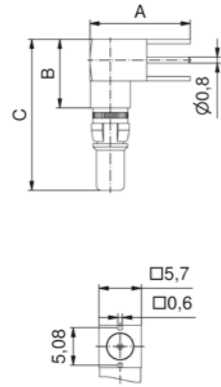
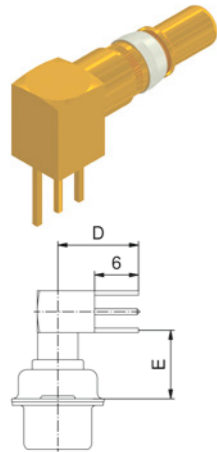
Socket contact		Impedance [Ω]	Shell size	Code use with part no. creator	Quality class	UL-File	Part No.
	50	1-4	78	J	E228329	132J25019X	
			G9	A		132A25019X	
	5	1-4	79	J		132J25029X	
			H1	A		132A25029X	
	75	5	1-4	88		J	132J35019X
				H2		A	132A35019X
				89		J	132J35029X
				H3		A	132A35029X

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	14	78	J	E228329	131J25019X	
		G9	A		131A25019X	
	5	79	J		131J25029X	
		H1	A		131A25029X	
	75	14	88		J	131J35019X
			H2		A	131A35019X
5		89	J	131J35029X		
		H3	A	131A35029X		

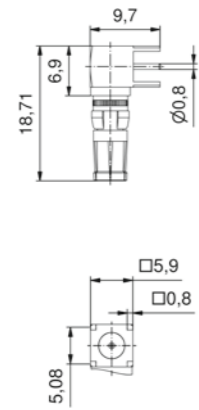
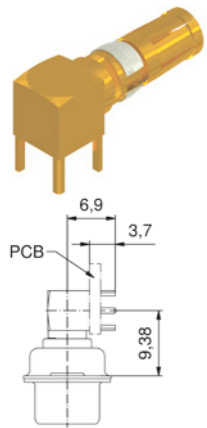
Shellsize	A	B	C	D	E
1-4	13.80	9.30	20.70	11.00	9.30
5	16.80	11.80	23.20	14.00	11.80

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

**COMBINATION D-SUB CONNECTORS
Contacts**

Coaxial contacts, straight
PCB termination, 5 solder pins

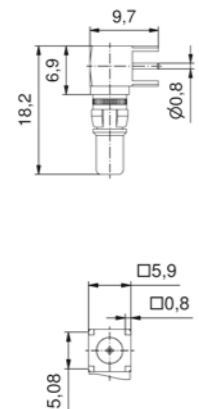
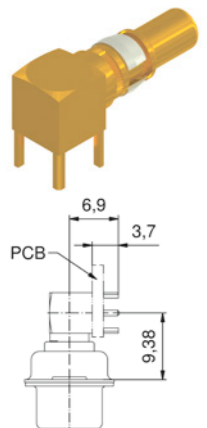
Socket contact



Impedance [Ω]	Shell size	Code use with part no. creator	Quality class	UL-File	Part No.
50	14	80	J	E228329	132J25519X
		H4	A		132A25519X
	75	90	J		132J35519X
		H5	A		132A35519X

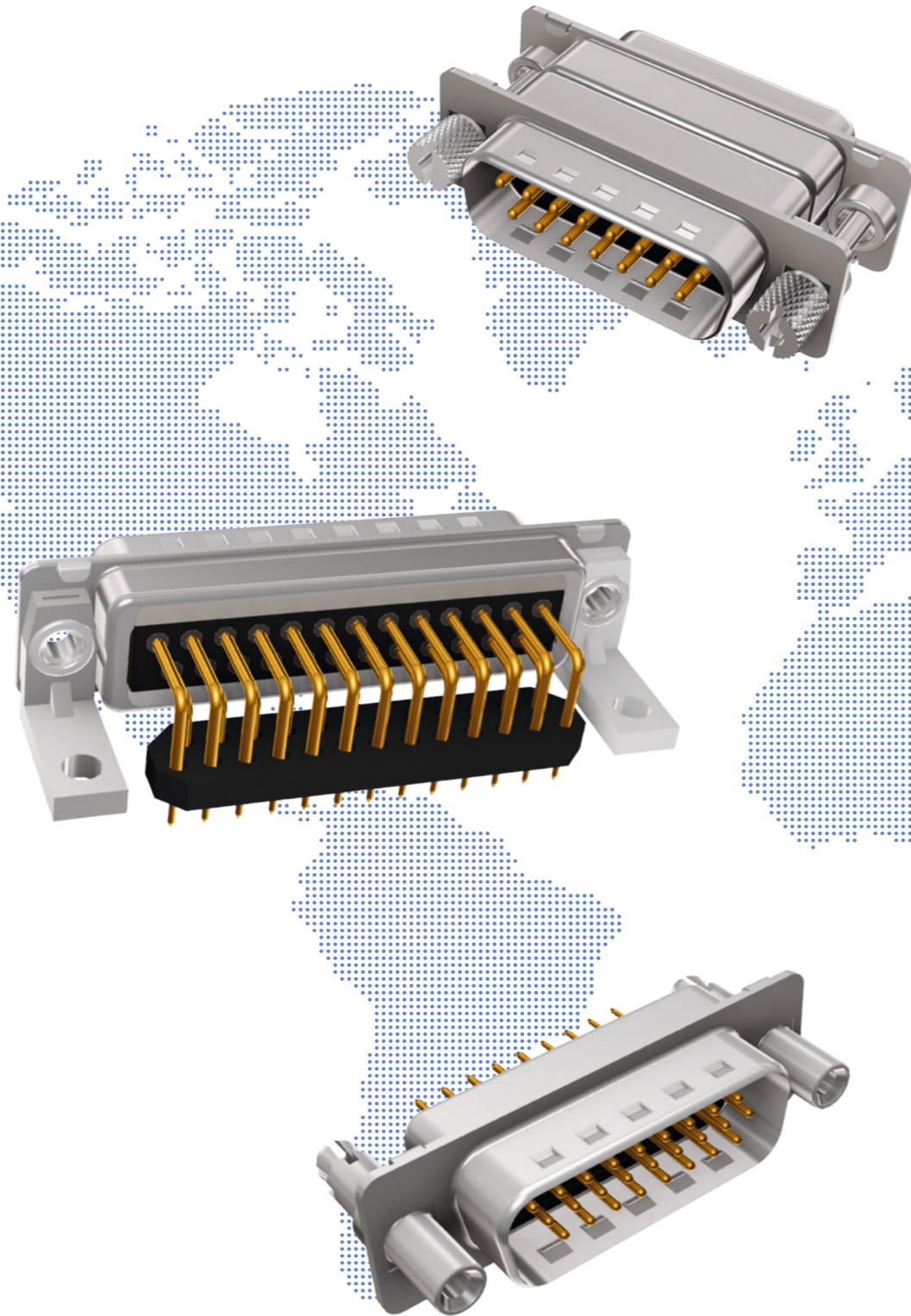
Quality class J >= 500 mating cycles
Quality class 3 (A) = 50 mating cycles

Plug contact



Impedance [Ω]	Shell size	Code use with part no. creator	Quality class	UL-File	Part No.
50	14	80	J	E228329	131J25519X
		H4	A		131A25519X
	75	90	J		131J35519X
		H5	A		131A35519X

FILTER D-SUB CONNECTORS





FILTER D-SUB CONNECTORS

Product specification

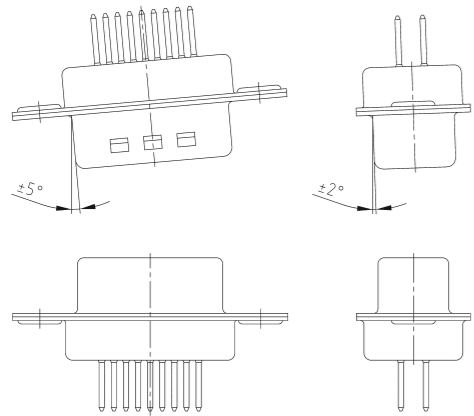
Basic material	Filter D-SUB Standard 9-, 15-, 25-, 37-, 50-position	Filter D-SUB High Density 15-, 25-, 44-, 62-, 78-position		
Contacts	Copper alloy			
Contact plating	Gold over nickel			
Insulator	PBT GF UL 94 V-0			
Shell	Steel tin plated (on request: brass tin plated)			
Technical data				
Dielectric 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* <small>*Depending on isolation coordination (refer to DIN VDE 0110/IEC 664-1)</small>	<ul style="list-style-type: none"> • Standard 100 VDC* 		
Voltage surge 10/700 µs	<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 mΩ vor Beanspruchung, Δ R max. 10 mΩ nach Beanspruchung refer to IEC 60807-2			
Insulation resistance	≥ 1GΩ			
Capacitor values	370 pF ± 20 % tolerance 830 pF ± 20 % tolerance 1300 pF ± 20 % tolerance <small>other capacitor values on request</small>	370 pF ± 20 % tolerance 830 pF ± 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. ≤ 30 N 15-pos. ≤ 50 N 25-pos. ≤ 83 N 37-pos. ≤ 123 N 50-pos. ≤ 167 N	15-pos. ≤ 50 N 26-pos. ≤ 83 N 44-pos. ≤ 110 N 62-pos. ≤ 170 N 78-pos. ≤ 200 N		
Quality class	A= Quality class 3 = 50 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.

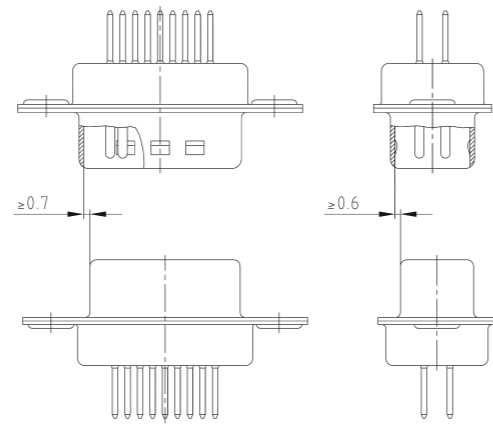
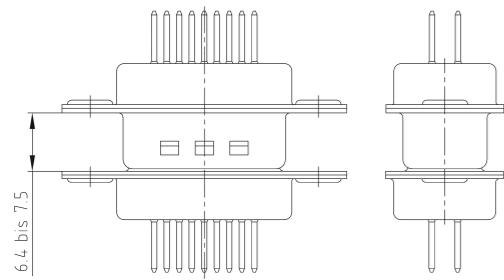
FILTER D-SUB CONNECTORS

Mating conditions

Max. tilt angle for connector mating

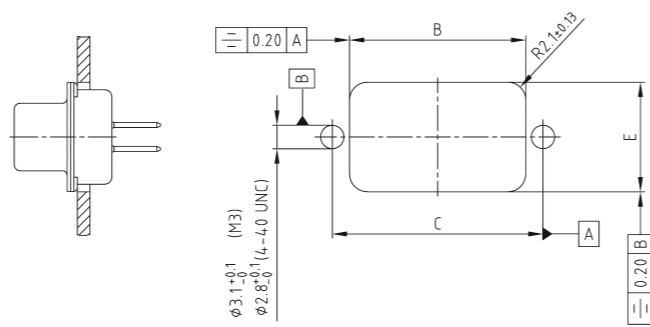
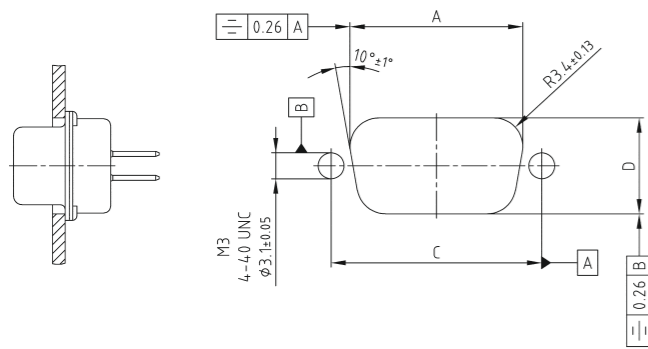


Range for safe contact Lock-in range



Panel cut-out

Back panel mounting Front panel mounting



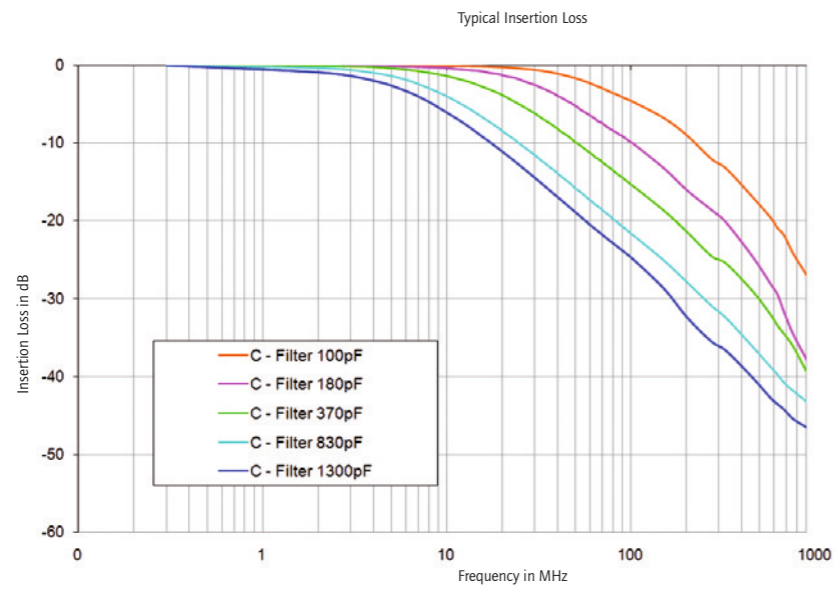
Shell size	No. of poles	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
1	9 15	20.50	22.20	25.00	11.40	13.00
2	15 26	28.80	30.50	33.30	11.40	13.00
3	25 44	42.50	44.30	47.04	11.40	13.00
4	37 62	59.10	60.70	63.50	11.40	13.00
5	50 78	56.30	58.30	61.10	14.10	15.80

Technical specifications are subject to change without notice.

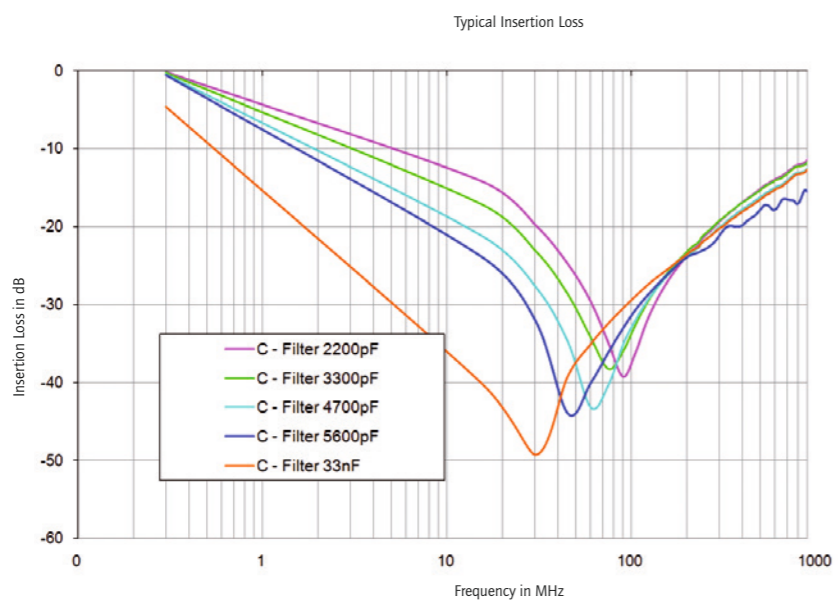
FILTER D-SUB CONNECTORS

Insertion loss

C-Filter with planar filter technology



C-Filter with chip technology

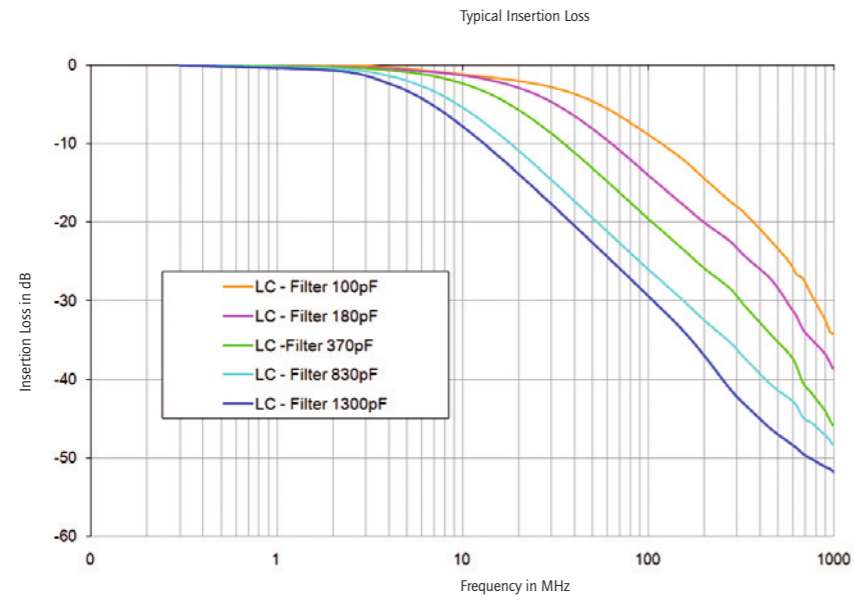


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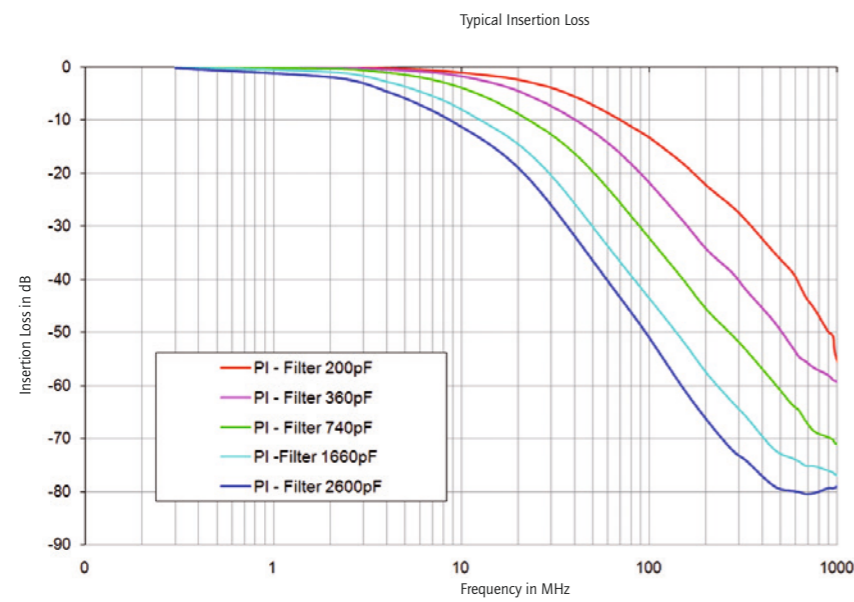
FILTER D-SUB CONNECTORS

Insertion loss

LC-Filter with planar filter technology



π-Filter with planar filter technology

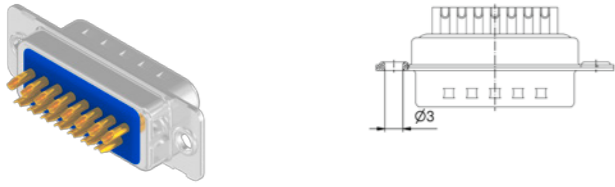
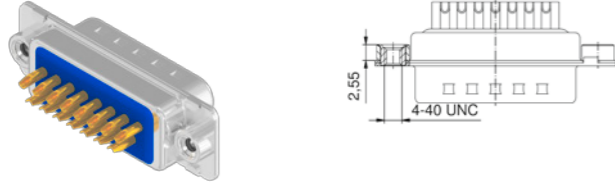


Technical specifications are subject to change without notice.

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

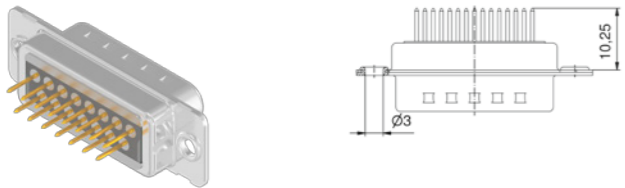
Through-hole Ø 3 mm		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A26780X	241A26880X	
	15						242A26790X	241A26890X	
	25						242A26800X	241A26900X	
	37						242A26810X	241A26910X	
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A26820X	241A26920X	
	15						242A26830X	241A26930X	
	25						242A26840X	241A26940X	
	37						242A26850X	241A26950X	
	09	75 (UI) / 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 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A26940X	241A27040X	
	15						242A26950X	241A27050X	
	25						242A26960X	241A27060X	
	37						242A26970X	241A27070X	
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A26980X	241A27080X	
	15						242A26990X	241A27090X	
	25						242A27000X	241A27100X	
	37						242A27010X	241A27110X	
	09	75 (UI) / 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

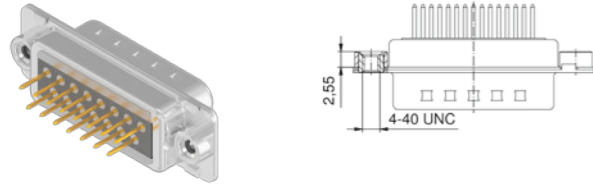
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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	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

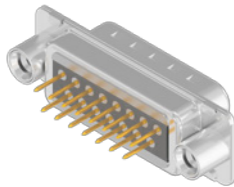
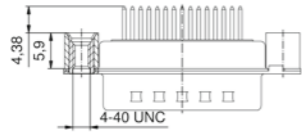
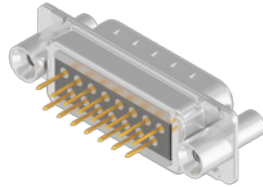
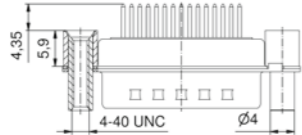


09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A10130X	241A10130X
15						242A10140X	241A10140X
25						242A10150X	241A10150X
37						242A10160X	241A10160X
50						242A15610X	241A15720X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A10210X	241A10210X
15						242A10220X	241A10220X
25						242A10230X	241A10230X
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

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

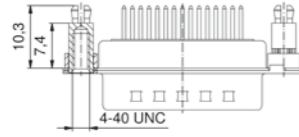
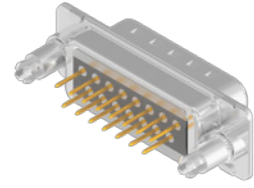
4-40 UNC threaded rear spacer		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
 	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A10370X	241A10370X	
	15						242A10380X	241A10380X	
	25						242A10390X	241A10390X	
	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	

FILTER D-SUB CONNECTORS
C-Filter Standard

Solder pin, straight
Precision machined contacts

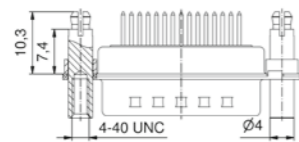
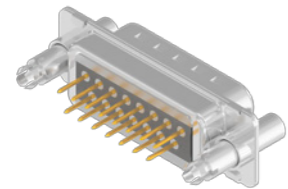
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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



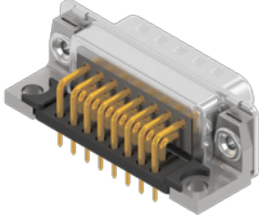
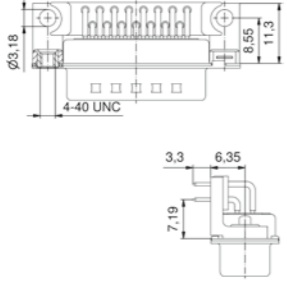
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A15280X	241A15390X
15						242A15290X	241A15400X
25						242A15300X	241A15410X
37						242A15310X	241A15420X
50						242A15320X	241A15430X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A15380X	241A15490X
15						242A15390X	241A15500X
25						242A15400X	241A15510X
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

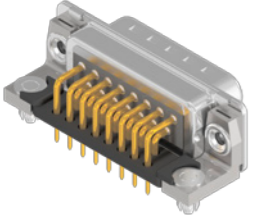
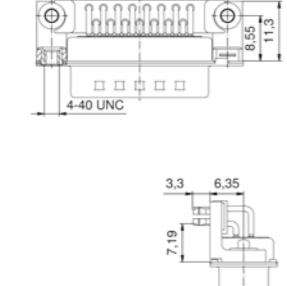
Solder pin, angled, .318"/7.19 mm
Precision machined contacts, metal bracket

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

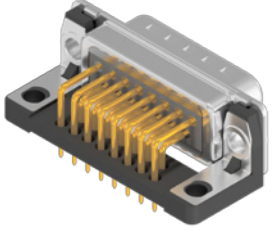
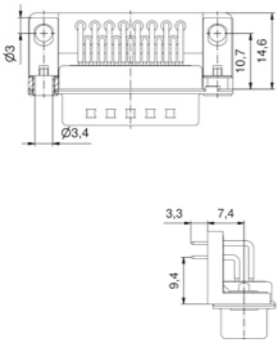
		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
 	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A17740X	241A16140X	
	15						242A17750X	241A16150X	
	25						242A17760X	241A16160X	
	37						242A17770X	241A16170X	
	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

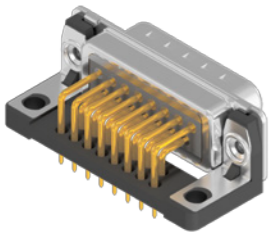
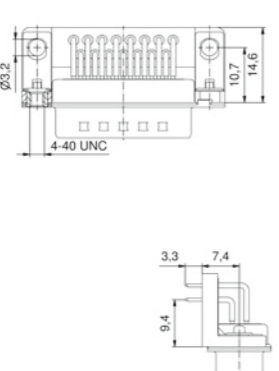
Solder pin, angled, .370"/9.4 mm
Precision machined contacts, plastic bracket

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	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A10970X	241A10970X
	15						242A10980X	241A10980X
	25						242A10990X	241A10990X
	37						242A11000X	241A11000X
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A11050X	241A11050X
	15						242A11060X	241A11060X
	25						242A11070X	241A11070X
	37						242A11080X	241A11080X
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A11010X	241A11010X
	15						242A11020X	241A11020X
	25						242A11030X	241A11030X
	37						242A11040X	241A11040X

Grounding strap, 4-40 UNC threaded insert

	No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
 	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A11090X	241A11090X
	15						242A11100X	241A11100X
	25						242A11110X	241A11110X
	37						242A11120X	241A11120X
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A11170X	241A11170X
	15						242A11180X	241A11180X
	25						242A11190X	241A11190X
	37						242A11200X	241A11200X
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A11130X	241A11130X
	15						242A11140X	241A11140X
	25						242A11150X	241A11150X
	37						242A11160X	241A11160X

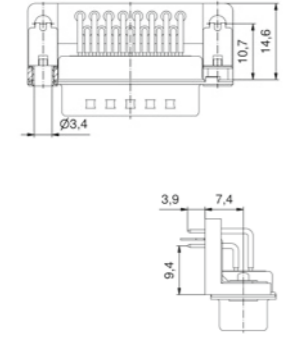
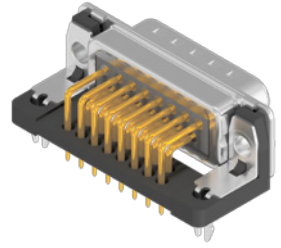
FILTER D-SUB CONNECTORS
C-Filter Standard

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

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

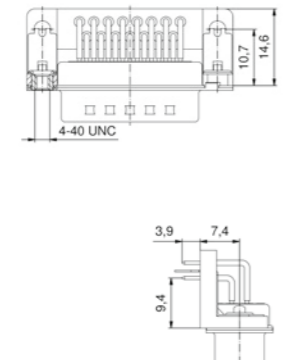
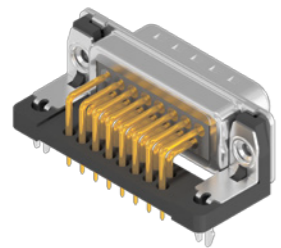
Clip for PCB 1.6 mm, through-hole Ø 3.4 mm

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	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

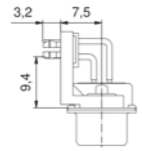
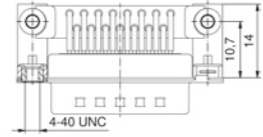
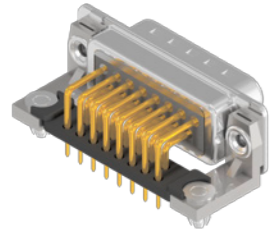


FILTER D-SUB CONNECTORS
C-Filter Standard

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

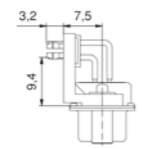
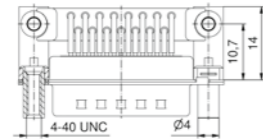
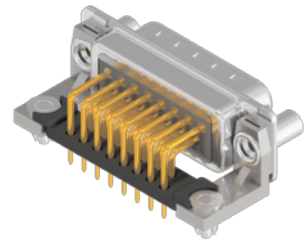
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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



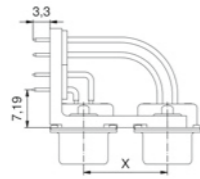
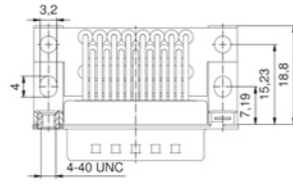
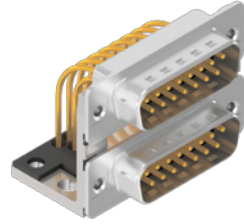
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A22440X	241A22540X
15						242A22450X	241A22550X
25						242A22460X	241A22560X
37						242A22470X	241A22570X
50						242A27310X	241A27410X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A22480X	241A22580X
15						242A22490X	241A22590X
25						242A22500X	241A22600X
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

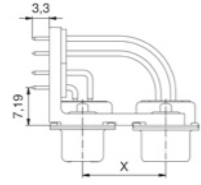
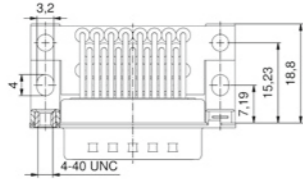
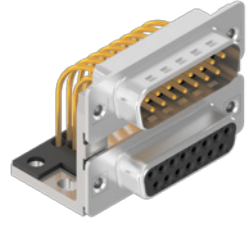


No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Part No.
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	241A14130X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	241A14140X
15/15 09/09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



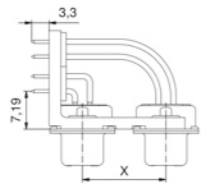
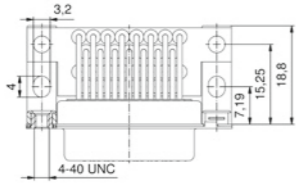
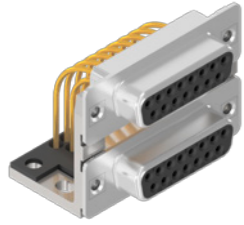
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Part No.
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	241A14250X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	241A14260X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	241A14270X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	241A14280X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	241A14330X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	241A14340X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	241A14350X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	241A14360X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	241A14290X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	241A14300X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	241A14310X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	241A14320X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	241A14730X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	241A14740X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	241A14750X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	241A14760X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	241A14810X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	241A14820X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	241A14830X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	241A14840X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	241A14770X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	241A14780X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	241A14790X
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	241A14800X

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 Dual Port

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

4-40 UNC threaded insert



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

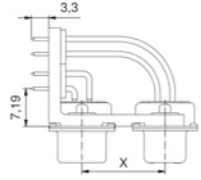
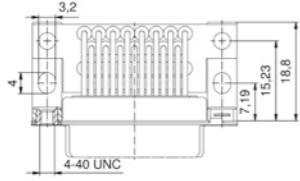
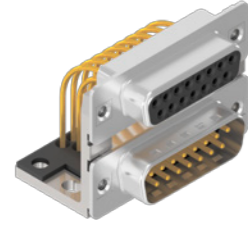
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

FILTER D-SUB CONNECTORS
C-Filter 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



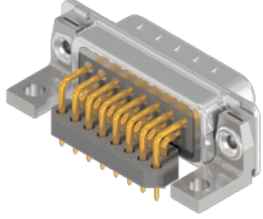
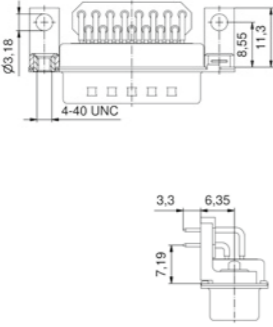
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Part No.
15/15 09/09	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370, .625, 15.88		242A14140X
15/15 15/15	75 (UI) / 5 (CSA, VDE)	100	E202784	3	370, .625, 15.88		242A14150X
25/25 37/37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

FILTER D-SUB CONNECTORS
LC-Filter Standard

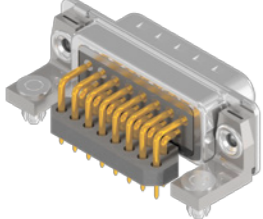
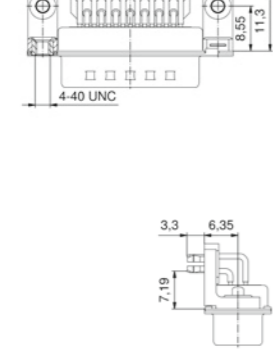
Solder pin, angled, .318"/7.19 mm
Precision machined contacts, metal bracket

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	15	25	37	E202784	3	370	242A24700X	241A24800X	
								242A24710X	241A24810X	
								242A24720X	241A24820X	
								242A24730X	241A24830X	
		09	15	25	37	E202784	3	830	242A24740X	241A24840X
									242A24750X	241A24850X
									242A24760X	241A24860X
									242A24770X	241A24870X
		09	15	25	37	E202784	3	1300	242A24780X	241A24880X
									242A24790X	241A24890X
									242A24800X	241A24900X
									242A24810X	241A24910X

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

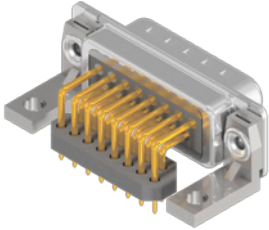
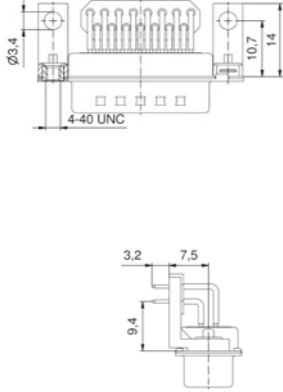
 	09	15	25	37	E202784	3	370	242A24860X	241A24960X	
								242A24870X	241A24970X	
								242A24880X	241A24980X	
								242A24890X	241A24990X	
		09	15	25	37	E202784	3	830	242A24900X	241A25000X
									242A24910X	241A25010X
									242A24920X	241A25020X
									242A24930X	241A25030X
		09	15	25	37	E202784	3	1300	242A24940X	241A25040X
									242A24950X	241A25050X
									242A24960X	241A25060X
									242A24970X	241A25070X

FILTER D-SUB CONNECTORS
LC-Filter Standard

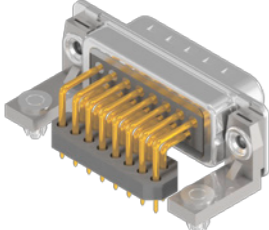
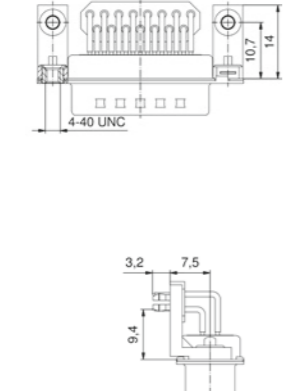
Solder pin, angled, .370"/9.4 mm
Precision machined contacts, metal bracket

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	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A25020X	241A25120X	
	15						242A25030X	241A25130X	
	25						242A25040X	241A25140X	
	37						242A25050X	241A25150X	
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A25060X	241A25160X	
	15						242A25070X	241A25170X	
	25						242A25080X	241A25180X	
	37						242A25090X	241A25190X	
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	242A25100X	241A25200X	
	15						242A25110X	241A25210X	
	25						242A25120X	241A25220X	
	37						242A25130X	241A25230X	

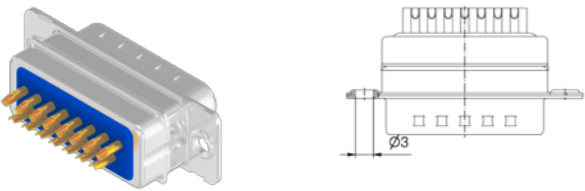
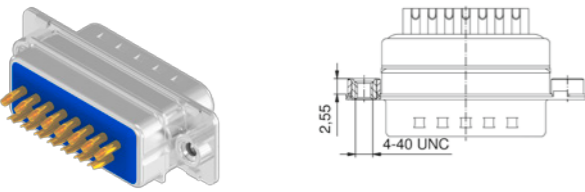
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
 	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	242A25340X	241A25440X	
	15						242A25350X	241A25450X	
	25						242A25360X	241A25460X	
	37						242A25370X	241A25470X	
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	242A25380X	241A25480X	
	15						242A25390X	241A25490X	
	25						242A25400X	241A25500X	
	37						242A25410X	241A25510X	
	09	75 (UI) / 5 (CSA VDE)	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

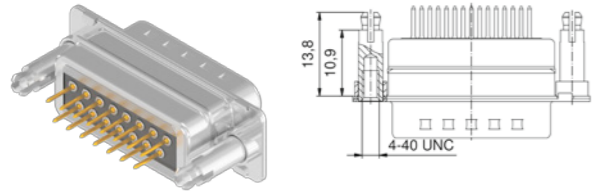
Shell: Steel tin plated
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Brass tin plated or stainless steel
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

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	75 (UI) / 5 (CSA VDE)	100	E202784	3	2x 370	242A29030X	241A29130X	
	25						242A29040X	241A29140X	
	37						242A29050X	241A29150X	
	09						75 (UI) / 5 (CSA VDE)	100	E202784
	15	75 (UI) / 5 (CSA VDE)	100	E202784	3	2x 830	242A29070X	241A29170X	
	25						242A29080X	241A29180X	
	37						242A29090X	241A29190X	
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	2x 1300	242A29100X	241A29200X	
	15	75 (UI) / 5 (CSA VDE)	100	E202784	3	2x 1300	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	75 (UI) / 5 (CSA VDE)	100	E202784	3	2x 370	242A29190X	241A29290X	
	25						242A29200X	241A29300X	
	37						242A29210X	241A29310X	
	09						75 (UI) / 5 (CSA VDE)	100	E202784
	15	75 (UI) / 5 (CSA VDE)	100	E202784	3	2x 830	242A29230X	241A29330X	
	25						242A29240X	241A29340X	
	37						242A29250X	241A29350X	
	09	75 (UI) / 5 (CSA VDE)	100	E202784	3	2x 1300	242A29260X	241A29360X	
	15	75 (UI) / 5 (CSA VDE)	100	E202784	3	2x 1300	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



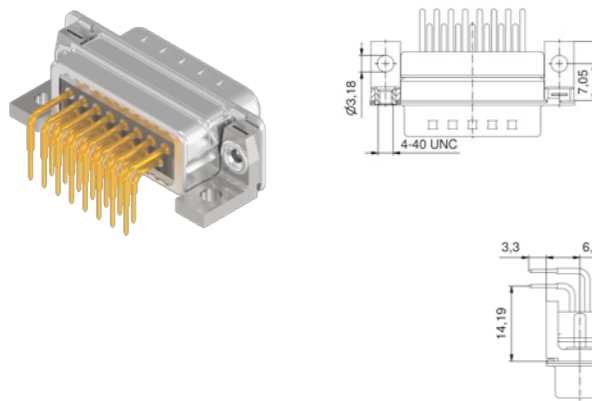
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A26300X	241A26400X
15	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A26310X	241A26410X
25	75 (UII) / 5 (CSA VDE)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

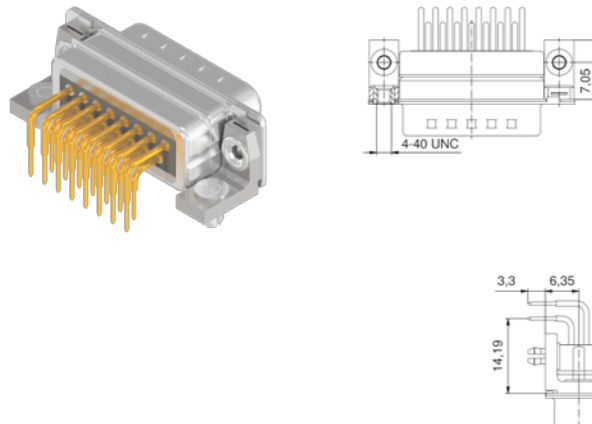
4-40 UNC threaded insert



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	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A25990X	241A26090X
25	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A26000X	241A26100X
37	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A26010X	241A26110X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 830	242A26020X	241A26120X
15	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 830	242A26030X	241A26130X
25	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 830	242A26040X	241A26140X
37	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 830	242A26050X	241A26150X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 1300	242A26060X	241A26160X
15	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 1300	242A26070X	241A26170X
25	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 1300	242A26080X	241A26180X
37	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 1300	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

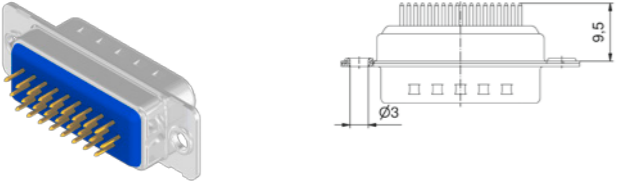
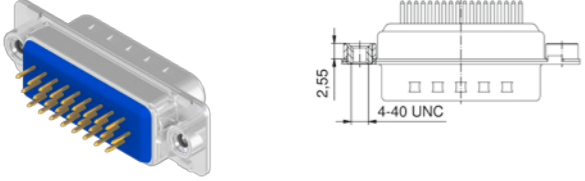
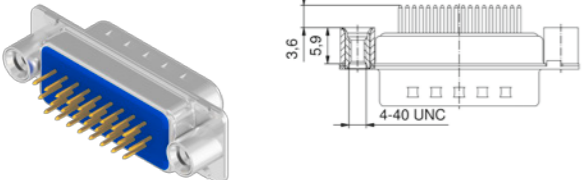
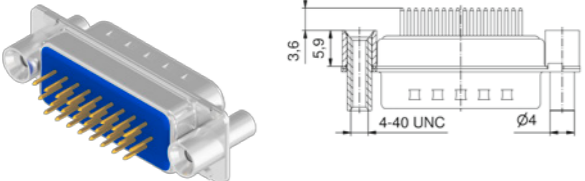


No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A26140X	241A26240X
15	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A26150X	241A26250X
25	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A26160X	241A26260X
37	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 370	242A26170X	241A26270X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 830	242A26180X	241A26280X
15	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 830	242A26190X	241A26290X
25	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 830	242A26200X	241A26300X
37	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 830	242A26210X	241A26310X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 1300	242A26220X	241A26320X
15	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 1300	242A26230X	241A26330X
25	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 1300	242A26240X	241A26340X
37	75 (UII) / 5 (CSA VDE)	100	E202784	3	2x 1300	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						242A20620X	241A20770X
	44						242A20630X	241A20780X
	62						242A20640X	241A20790X
	15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	242A20650X	241A20800X
	26						242A20660X	241A20810X
	44						242A20670X	241A20820X
	62						242A20680X	241A20830X

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

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

FILTER D-SUB CONNECTORS
C-Filter High Density

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

Grounding strap, 4-40 UNC threaded insert

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

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

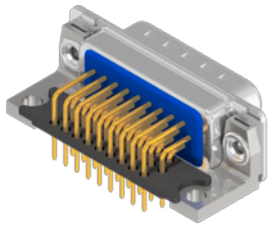
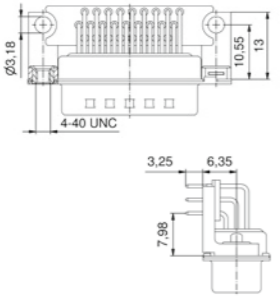
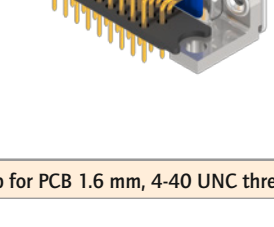
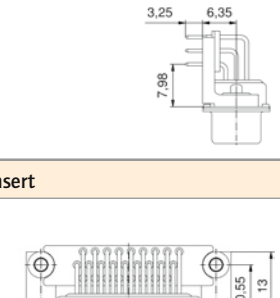
Grounding strap, 4-40 UNC front spacer

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

FILTER D-SUB CONNECTORS
C-Filter High Density

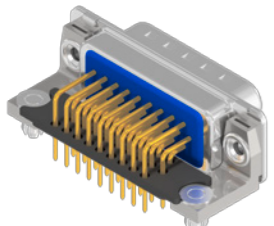
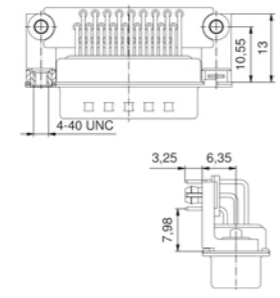
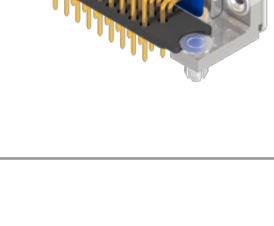
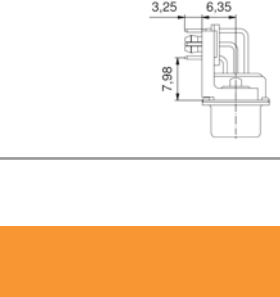
Solder pin, angled, .350"/7.98 mm
Precision machined contacts, metal bracket

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	

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

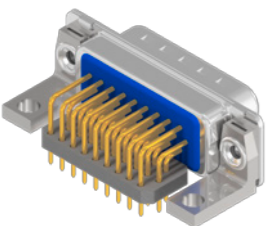
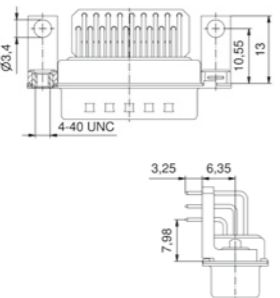
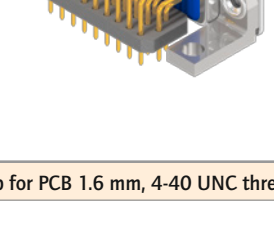
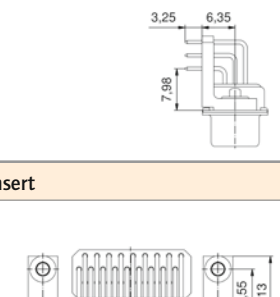
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

 	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

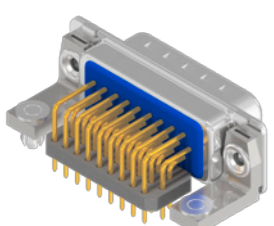
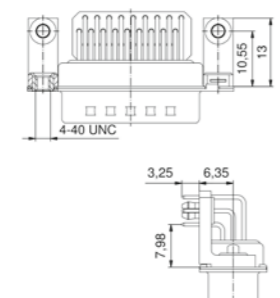
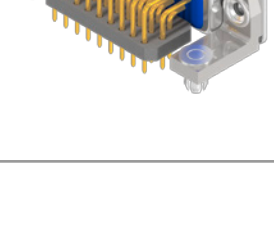
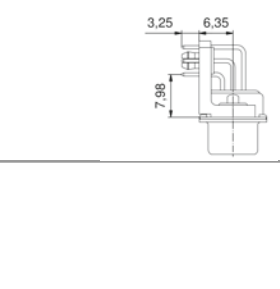
Solder pin, angled, .350"/7.98 mm
Precision machined contacts, metal bracket

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	

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

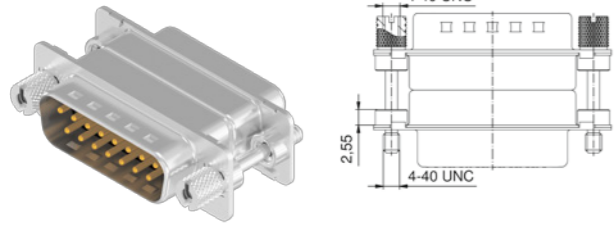
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

 	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

FILTER D-SUB CONNECTORS
C-Filter Full Metal Adapter

Socket connector - Plug connector
Precision machined contacts

4-40 UNC jack screw



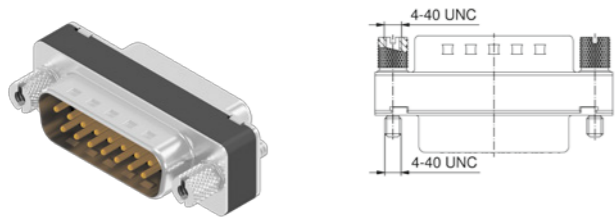
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	370	243A12200X
15						243A12210X
25						243A12220X
37						243A12230X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	830	243A12240X
15						243A12250X
25						243A12260X
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
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	830	243A10090X
15						243A10100X
25						243A10110X
37						243A10120X
50						243A10150X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	1300	243A10050X
15						243A10060X
25						243A10070X
37						243A10080X
50						243A10140X

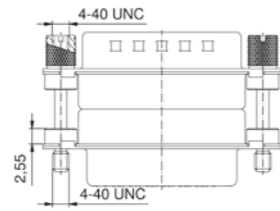
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles
• M3 jack screw

FILTER D-SUB CONNECTORS

π-Filter Full Metal Adapter

Socket connector - Plug connector
Precision machined contacts

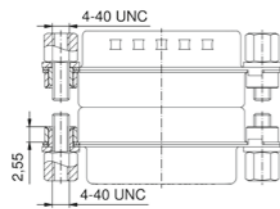
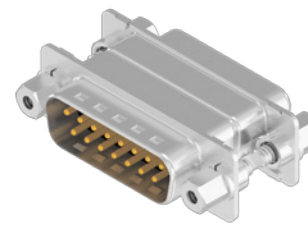
4-40 UNC jack screw



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



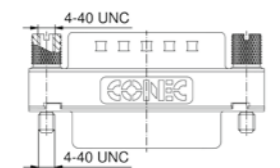
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	2x 370	MAP1XAAAH02R741X
15						MAP2XAAAH02R741X
25						MAP3XAAAH02R741X
37						MAP4XAAAH02R741X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	2x 830	MAP1XAAAH02R162X
15						MAP2XAAAH02R162X
25						MAP3XAAAH02R162X
37						MAP4XAAAH02R162X
09	75 (UL) / 5 (CSA VDE)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



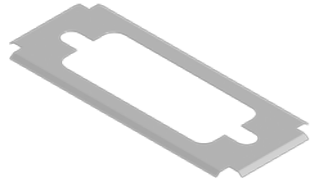
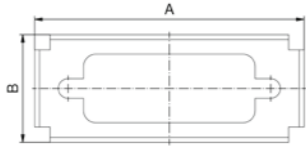
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No.
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	243A11640X
26						243A11650X
44						243A11660X
62						243A11670X
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	243A11680X
26						243A11690X
44						243A11700X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

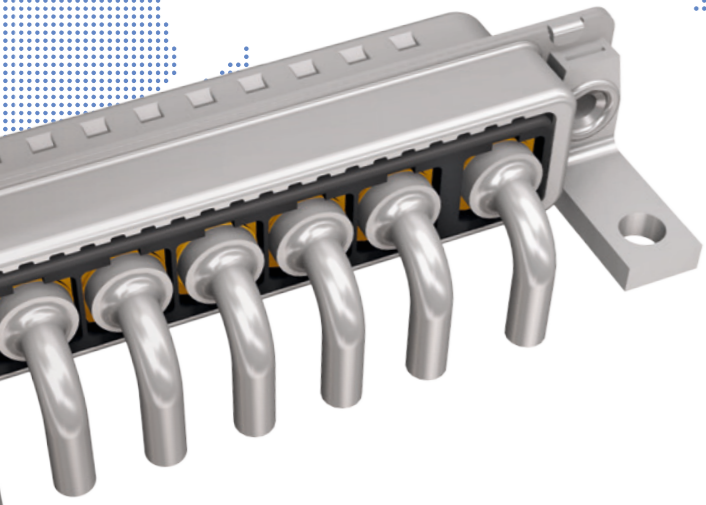
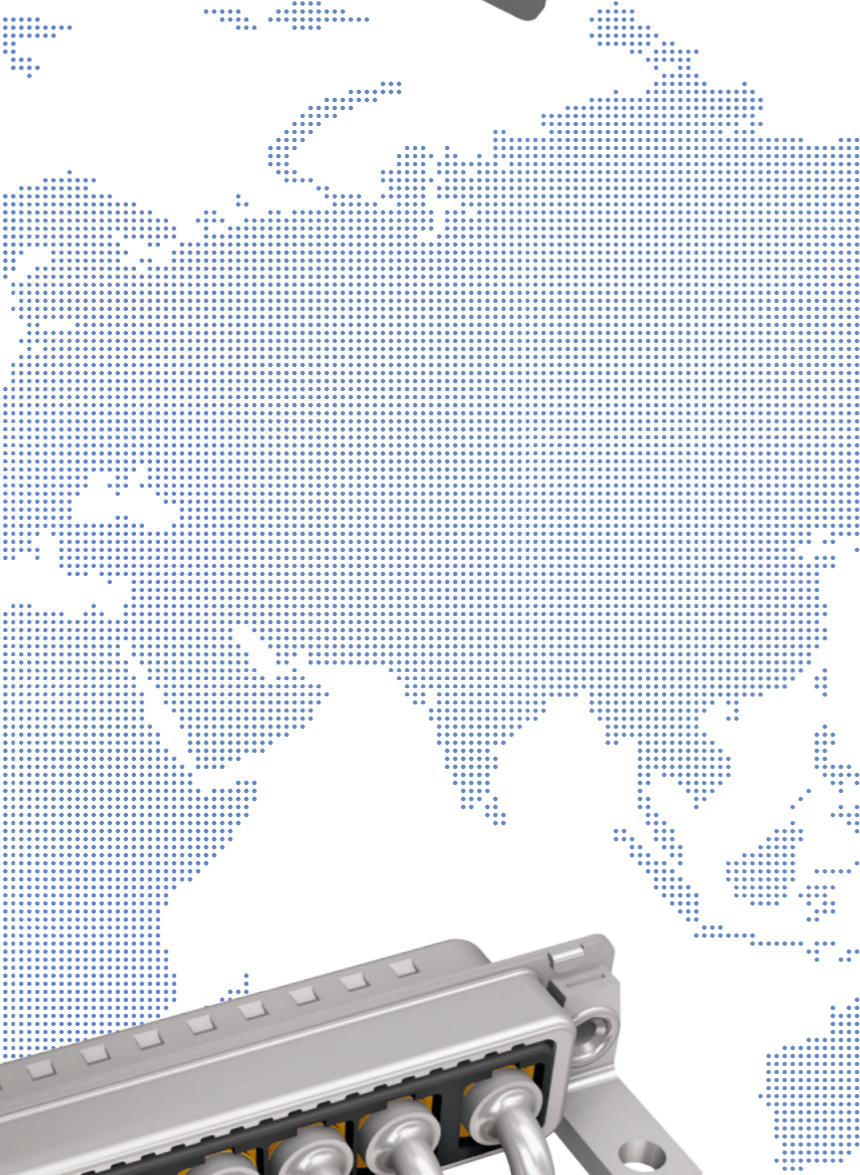
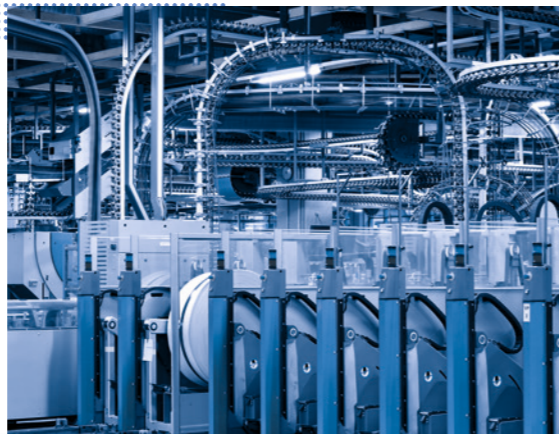
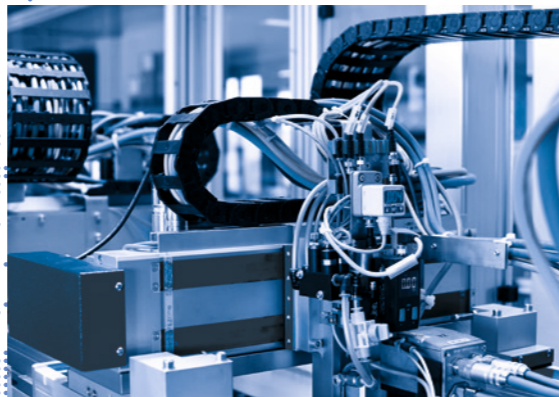
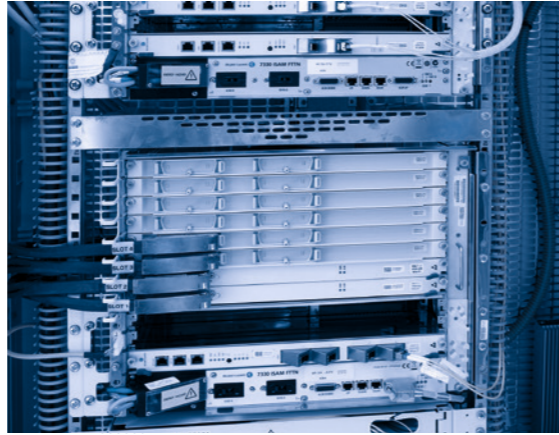
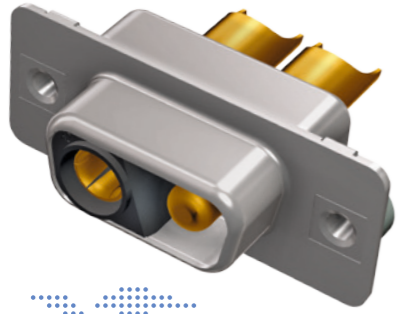
EMI/RFI shielding frames

- 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

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

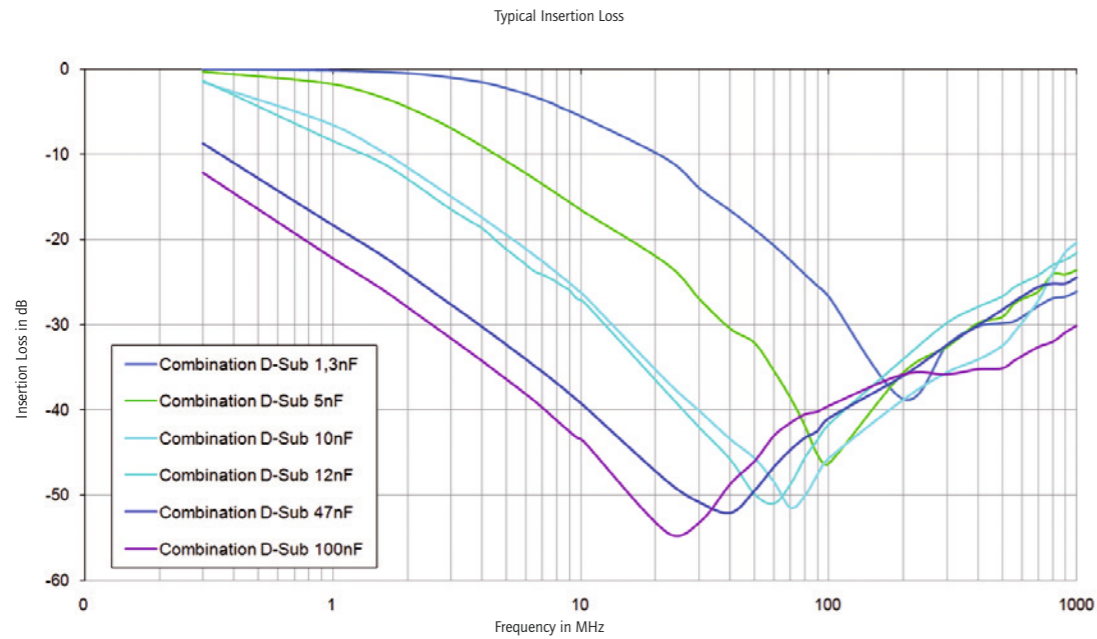
Basic Material	Variations 2W2C – 3W3C – 3W3 – 5W5 – 8W8		
Contacts	CU alloy		
Contact plating	Mating area gold plated over nickel / termination area tin or gold plated		
Insulator	PBT GF UL 94 V-0		
Shell	Steel tin plated		
Technical Data			
Dielectric with standing voltage	Standard DWV	707 VDC	
	High 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

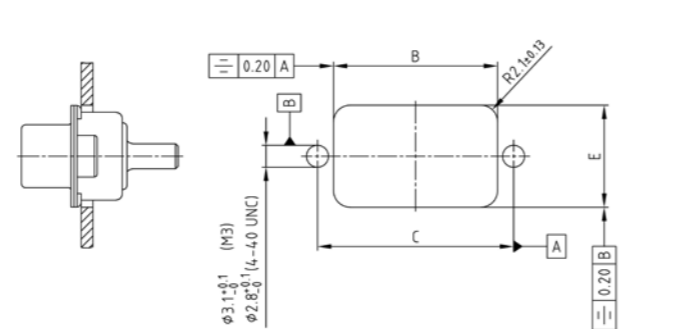
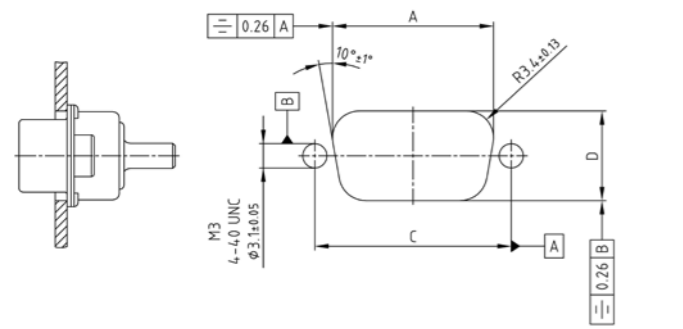
Insertion loss

C-Filter



Panel cut-out

Back panel mounting Front panel mounting



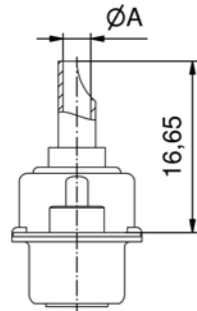
Shell size	Layout	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
1	2W2C	20.50	20.90	25.00	11.40	13.00
2	3W3S, 3W3C	28.80	29.20	33.30	11.40	13.00
3	5W5S	42.50	42.90	47.04	11.40	13.00
4	8W8S	59.10	59.40	63.50	11.40	13.00

Technical specifications are subject to change without notice.

FILTER COMBINATION D-SUB CONNECTORS

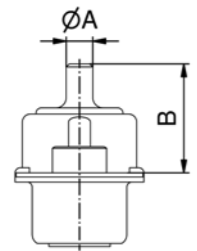
Termination code high power contacts

Solder cup



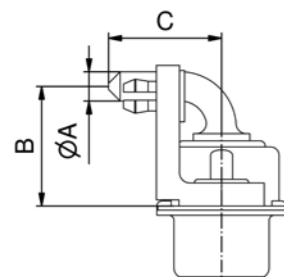
Termination Code	Current rating	AWG	Ø A [mm]
41	10 A	16-20	1.80
42	20 A	12-14	2.70
43	30 A	10-12	3.50
44	40 A	8-10	4.80

Solder pin straight



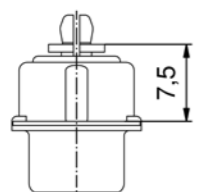
Termination Code	Current rating	Ø A [mm]	B ± 0.3 [mm]	PCB thickness [mm]	Hole diameter in PCB [mm]
48	20 A	1.95	9.65	1.6	2.30 ± 0.1
49	20 A	2.60	10.65	1.6	3.00 ± 0.1
50	20 A	2.85	10.05	1.6	3.20 ± 0.1
51	30 A	3.18	12.85	1.6/2.3/3.2	3.60 ± 0.1
52	40 A	3.75	11.10	1.6/2.3/3.2	4.10 ± 0.1

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



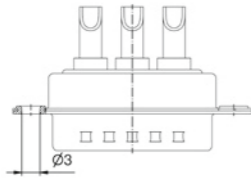
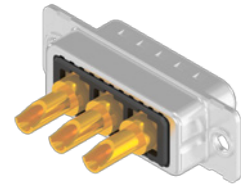
Technical specifications are subject to change without notice.

FILTER COMBINATION D-SUB CONNECTORS
C-Filter

Solder cup
Precision machined contacts, AWG 8-20

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

Through-hole Ø 3 mm

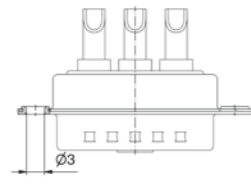
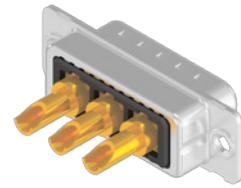


For other capacitance values refer to the part number creator.

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

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

Through-hole Ø 3 mm, coded version

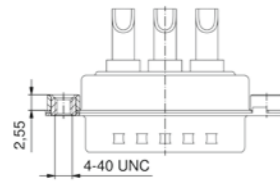
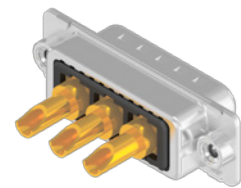


For other capacitance values refer to the part number creator.

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

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

4-40 UNC threaded insert



For other capacitance values refer to the part number creator.

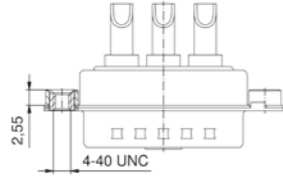
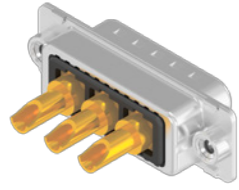
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

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

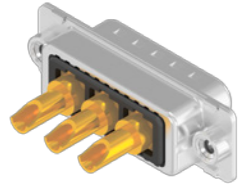
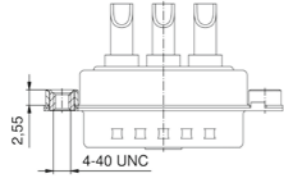
FILTER COMBINATION D-SUB CONNECTORS
C-Filter

Solder cup
Precision machined contacts, AWG 8-20

4-40 UNC threaded insert, coded version



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

For other capacitance values refer to the part number creator.

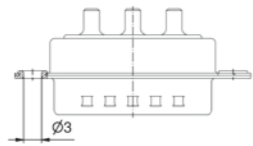
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

FILTER COMBINATION D-SUB CONNECTORS
C-Filter

Solder pin straight
Precision machined contacts

Through-hole Ø 3 mm

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

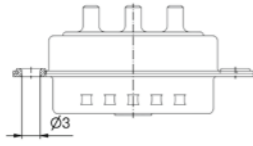
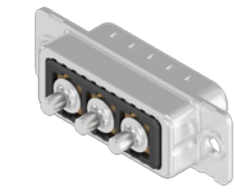


For other capacitance values refer to the part number creator.

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact				
3W3	20	100	2.85	47	E228329	3	3F3SSA22S48A10X	3F3SPA22S48A10X				
							3F3SSA22S49A10X	3F3SPA22S49A10X				
							3F3SSA22S50A10X	3F3SPA22S50A10X				
							3F3SSA22S51A10X	3F3SPA22S51A10X				
	30	100	3.18	47			E228329	3	3F3SSA22S52A10X	3F3SPA22S52A10X		
									5F5SSA22S48A10X	5F5SPA22S48A10X		
									5F5SSA22S49A10X	5F5SPA22S49A10X		
									5F5SSA22S50A10X	5F5SPA22S50A10X		
	40	100	3.75	47					E228329	3	5F5SSA22S51A10X	5F5SPA22S51A10X
											5F5SSA22S52A10X	5F5SPA22S52A10X
											8F8SSA22S48A10X	8F8SPA22S48A10X
											8F8SSA22S49A10X	8F8SPA22S49A10X
20	100	2.60	47	E228329	3	8F8SSA22S50A10X					8F8SPA22S50A10X	
						8F8SSA22S51A10X					8F8SPA22S51A10X	
						8F8SSA22S52A10X					8F8SPA22S52A10X	
						2F2CSA22S48A10X					2F2CPA22S48A10X	
30	100	3.18	47			E228329	3	2F2CSA22S49A10X			2F2CPA22S49A10X	
								2F2CSA22S50A10X			2F2CPA22S50A10X	
								2F2CSA22S51A10X			2F2CPA22S51A10X	
								2F2CSA22S52A10X			2F2CPA22S52A10X	
40	100	3.75	47					E228329	3	3F3CSA22S48A10X	3F3CPA22S48A10X	
										3F3CSA22S49A10X	3F3CPA22S49A10X	
										3F3CSA22S50A10X	3F3CPA22S50A10X	
										3F3CSA22S51A10X	3F3CPA22S51A10X	
20	100	2.60	47	E228329	3					3F3CSA22S52A10X	3F3CPA22S52A10X	
										3F3CSA22S52A10X	3F3CPA22S52A10X	

Through-hole Ø 3 mm, coded version



For other capacitance values refer to the part number creator.

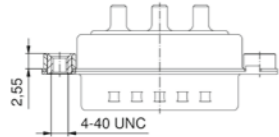
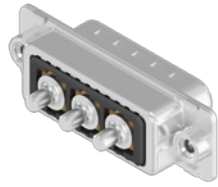
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact				
2W2C	20	100	2.85	47	E228329	3	2F2CSA22S48A10X	2F2CPA22S48A10X				
							2F2CSA22S49A10X	2F2CPA22S49A10X				
							2F2CSA22S50A10X	2F2CPA22S50A10X				
							2F2CSA22S51A10X	2F2CPA22S51A10X				
	30	100	3.18	47			E228329	3	2F2CSA22S52A10X	2F2CPA22S52A10X		
									3F3CSA22S48A10X	3F3CPA22S48A10X		
									3F3CSA22S49A10X	3F3CPA22S49A10X		
									3F3CSA22S50A10X	3F3CPA22S50A10X		
	40	100	3.75	47					E228329	3	3F3CSA22S51A10X	3F3CPA22S51A10X
											3F3CSA22S52A10X	3F3CPA22S52A10X

FILTER COMBINATION D-SUB CONNECTORS
C-Filter

Solder pin straight
Precision machined contacts

4-40 UNC threaded insert



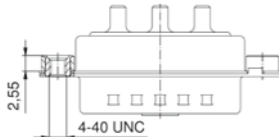
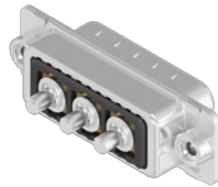
For other capacitance values refer to the part number creator.

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact			
3W3	20	100	1.95	47	E228329	3	3F3SSA22S48A30X	3F3SPA22S48A30X			
			2.60				3F3SSA22S49A30X	3F3SPA22S49A30X			
			2.85				3F3SSA22S50A30X	3F3SPA22S50A30X			
			3.18				3F3SSA22S51A30X	3F3SPA22S51A30X			
	30	100	3.75	3F3SSA22S52A30X			3F3SPA22S52A30X				
			1.95	5F5SSA22S48A30X			5F5SPA22S48A30X				
			2.60	5F5SSA22S49A30X			5F5SPA22S49A30X				
			2.85	5F5SSA22S50A30X			5F5SPA22S50A30X				
	40	100	3.18	5F5SSA22S51A30X			5F5SPA22S51A30X				
			3.75	5F5SSA22S52A30X			5F5SPA22S52A30X				
			1.95	8F8SSA22S48A30X			8F8SPA22S48A30X				
			2.60	8F8SSA22S49A30X			8F8SPA22S49A30X				
8W8	20	100	2.85	E228329	3	8F8SSA22S50A30X	8F8SPA22S50A30X				
			3.18			8F8SSA22S51A30X	8F8SPA22S51A30X				
			3.75			8F8SSA22S52A30X	8F8SPA22S52A30X				
			1.95			2F2CSA22S48A30X	2F2CPA22S48A30X				
2W2C	20	100	2.60			E228329	3	2F2CSA22S49A30X	2F2CPA22S49A30X		
			2.85					2F2CSA22S50A30X	2F2CPA22S50A30X		
			3.18					2F2CSA22S51A30X	2F2CPA22S51A30X		
			3.75					2F2CSA22S52A30X	2F2CPA22S52A30X		
3W3C	30	100	1.95					E228329	3	3F3CSA22S48A30X	3F3CPA22S48A30X
			2.60							3F3CSA22S49A30X	3F3CPA22S49A30X
			2.85							3F3CSA22S50A30X	3F3CPA22S50A30X
			3.18							3F3CSA22S51A30X	3F3CPA22S51A30X
40	100	3.75	3F3CSA22S52A30X	3F3CPA22S52A30X							

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



For other capacitance values refer to the part number creator.

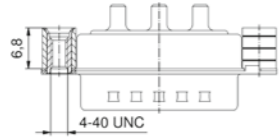
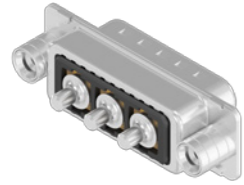
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

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
3W3C	20	100	1.95	47	E228329	3	3F3CSA22S48A30X	3F3CPA22S48A30X
			2.60				3F3CSA22S49A30X	3F3CPA22S49A30X
			2.85				3F3CSA22S50A30X	3F3CPA22S50A30X
			3.18				3F3CSA22S51A30X	3F3CPA22S51A30X
	30	100	3.75	3F3CSA22S52A30X			3F3CPA22S52A30X	
			1.95	2F2CSA22S48A30X			2F2CPA22S48A30X	
			2.60	2F2CSA22S49A30X			2F2CPA22S49A30X	
			2.85	2F2CSA22S50A30X			2F2CPA22S50A30X	
	40	100	3.18	2F2CSA22S51A30X			2F2CPA22S51A30X	
			3.75	2F2CSA22S52A30X			2F2CPA22S52A30X	

FILTER COMBINATION D-SUB CONNECTORS
C-Filter

Solder pin straight
Precision machined contacts

4-40 UNC threaded rear spacer



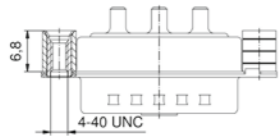
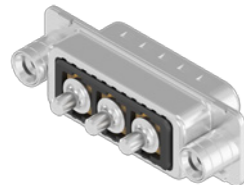
For other capacitance values refer to the part number creator.

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	47	E228329	3	3F3SSA22S48A50X	3F3SPA22S48A50X				
							3F3SSA22S49A50X	3F3SPA22S49A50X				
							3F3SSA22S50A50X	3F3SPA22S50A50X				
							3F3SSA22S51A50X	3F3SPA22S51A50X				
	30	100	3.18	47			E228329	3	3F3SSA22S52A50X	3F3SPA22S52A50X		
									5F5SSA22S48A50X	5F5SPA22S48A50X		
									5F5SSA22S49A50X	5F5SPA22S49A50X		
									5F5SSA22S50A50X	5F5SPA22S50A50X		
	40	100	3.75	47					E228329	3	5F5SSA22S51A50X	5F5SPA22S51A50X
											5F5SSA22S52A50X	5F5SPA22S52A50X
											8F8SSA22S48A50X	8F8SPA22S48A50X
											8F8SSA22S49A50X	8F8SPA22S49A50X
20	100	2.85	47	E228329	3	8F8SSA22S50A50X					8F8SPA22S50A50X	
						8F8SSA22S51A50X					8F8SPA22S51A50X	
						8F8SSA22S52A50X					8F8SPA22S52A50X	
						2F2CSA22S48A50X					2F2CPA22S48A50X	
30	100	3.18	47			E228329	3	2F2CSA22S49A50X			2F2CPA22S49A50X	
								2F2CSA22S50A50X			2F2CPA22S50A50X	
								2F2CSA22S51A50X			2F2CPA22S51A50X	
								2F2CSA22S52A50X			2F2CPA22S52A50X	
40	100	3.75	47					E228329	3	3F3CSA22S48A50X	3F3CPA22S48A50X	
										3F3CSA22S49A50X	3F3CPA22S49A50X	
										3F3CSA22S50A50X	3F3CPA22S50A50X	
										3F3CSA22S51A50X	3F3CPA22S51A50X	
20	100	2.85	47	E228329	3					3F3CSA22S52A50X	3F3CPA22S52A50X	
										3F3CSA22S52A50X	3F3CPA22S52A50X	
										3F3CSA22S52A50X	3F3CPA22S52A50X	
										3F3CSA22S52A50X	3F3CPA22S52A50X	

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

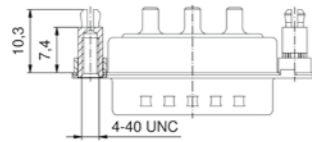
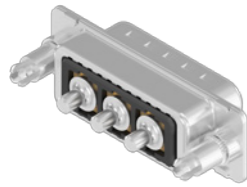
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact				
2W2C	20	100	2.85	47	E228329	3	2F2CSA22S48A50X	2F2CPA22S48A50X				
							2F2CSA22S49A50X	2F2CPA22S49A50X				
							2F2CSA22S50A50X	2F2CPA22S50A50X				
							2F2CSA22S51A50X	2F2CPA22S51A50X				
	30	100	3.18	47			E228329	3	2F2CSA22S52A50X	2F2CPA22S52A50X		
									3F3CSA22S48A50X	3F3CPA22S48A50X		
									3F3CSA22S49A50X	3F3CPA22S49A50X		
									3F3CSA22S50A50X	3F3CPA22S50A50X		
	40	100	3.75	47					E228329	3	3F3CSA22S51A50X	3F3CPA22S51A50X
											3F3CSA22S52A50X	3F3CPA22S52A50X
											3F3CSA22S52A50X	3F3CPA22S52A50X
											3F3CSA22S52A50X	3F3CPA22S52A50X

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 1.6 mm

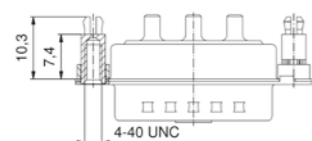
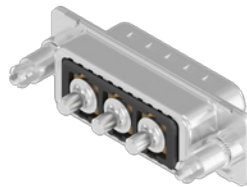


For other capacitance values refer to the part number creator.

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	100	1.95	47	E228329	3	3F3SSA22S48E20X	3F3SPA22S48E20X
			2.60				3F3SSA22S49E20X	3F3SPA22S49E20X
	2.85	3F3SSA22S50E20X	3F3SPA22S50E20X					
	3.18	3F3SSA22S51E20X	3F3SPA22S51E20X					
	3.75	3F3SSA22S52E20X	3F3SPA22S52E20X					
	30	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					
	3.75	5F5SSA22S52E20X	5F5SPA22S52E20X					
	30	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					
	3.75	8F8SSA22S52E20X	8F8SPA22S52E20X					
	30	3.18	8F8SSA22S51E20X	8F8SPA22S51E20X				
40	3.75	8F8SSA22S52E20X	8F8SPA22S52E20X					

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

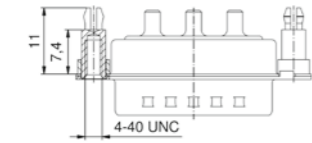
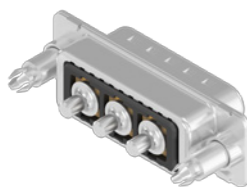


For other capacitance values refer to the part number creator.

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	20	100	1.95	47	E228329	3	2F2CSA22S48E20X	2F2CPA22S48E20X
			2.60				2F2CSA22S49E20X	2F2CPA22S49E20X
	2.85	2F2CSA22S50E20X	2F2CPA22S50E20X					
	3.18	2F2CSA22S51E20X	2F2CPA22S51E20X					
	3.75	2F2CSA22S52E20X	2F2CPA22S52E20X					
	30	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					
	3.75	3F3CSA22S52E20X	3F3CPA22S52E20X					
	30	3.18	3F3CSA22S51E20X	3F3CPA22S51E20X				
40	3.75	3F3CSA22S52E20X	3F3CPA22S52E20X					

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



For other capacitance values refer to the part number creator.

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

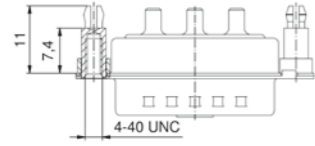
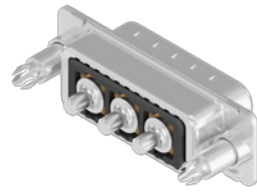
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	30	100	3.18	47	E228329	3	3F3SSA22S51E40X	3F3SPA22S51E40X
	40	3.75	3F3SSA22S52E40X				3F3SPA22S52E40X	
	30	3.18	3F3SSA22S51E40X				3F3SPA22S51E40X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

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

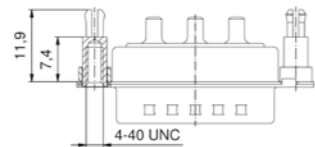
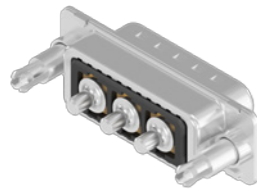


For other capacitance values refer to the part number creator.

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	2F2CSA22S51E40X	2F2CPA22S51E40X	
	100	47				2F2CSA22S52E40X	2F2CPA22S52E40X	
	40	3.75				2F2CSA22S52E40X	2F2CPA22S52E40X	
3W3C	30	3.18	47	E228329	3	3F3CSA22S51E40X	3F3CPA22S51E40X	
	100	47				3F3CSA22S52E40X	3F3CPA22S52E40X	
	40	3.75				3F3CSA22S52E40X	3F3CPA22S52E40X	

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

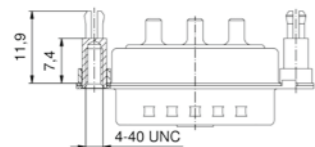
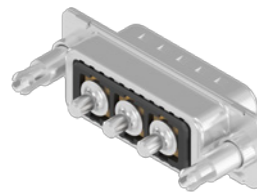


For other capacitance values refer to the part number creator.

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

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

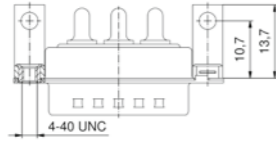
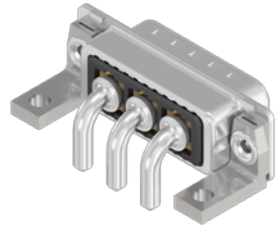
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	30	3.18	47	E228329	3	2F2CSA22S51E60X	2F2CPA22S51E60X	
	100	47				2F2CSA22S52E60X	2F2CPA22S52E60X	
	40	3.75				2F2CSA22S52E60X	2F2CPA22S52E60X	
3W3C	30	3.18	47	E228329	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

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

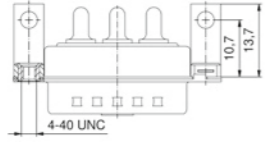
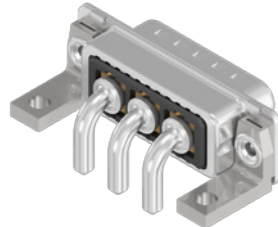


For other capacitance values refer to the part number creator.

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
3WB	20	285			E228329	3	3F3SSA22S56K20X	3F3SPA22S56K20X
	30	100	3.20	47			3F3SSA22S57K20X	3F3SPA22S57K20X
	40	3.75					3F3SSA22S58K20X	3F3SPA22S58K20X
5W5	20	285			E228329	3	5F5SSA22S56K20X	5F5SPA22S56K20X
	30	100	3.20	47			5F5SSA22S57K20X	5F5SPA22S57K20X
	40	3.75					5F5SSA22S58K20X	5F5SPA22S58K20X
8WB	20	285			E228329	3	8F8SSA22S56K20X	8F8SPA22S56K20X
	30	100	3.20	47			8F8SSA22S57K20X	8F8SPA22S57K20X
	40	3.75					8F8SSA22S58K20X	8F8SPA22S58K20X

4-40 UNC threaded insert, coded version

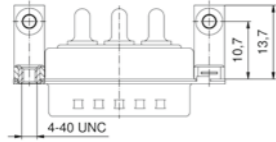
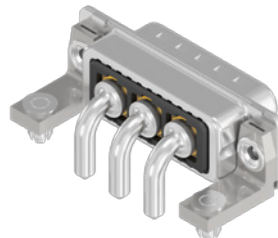


For other capacitance values refer to the part number creator.

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	285			E228329	3	2F2CSA22S56K20X	2F2CPA22S56K20X
	30	100	3.20	47			2F2CSA22S57K20X	2F2CPA22S57K20X
	40	3.75					2F2CSA22S58K20X	2F2CPA22S58K20X
3W3C	20	285			E228329	3	3F3CSA22S56K20X	3F3CPA22S56K20X
	30	100	3.20	47			3F3CSA22S57K20X	3F3CPA22S57K20X
	40	3.75					3F3CSA22S58K20X	3F3CPA22S58K20X

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



For other capacitance values refer to the part number creator.

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

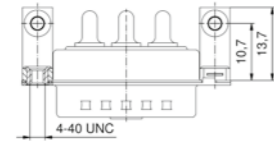
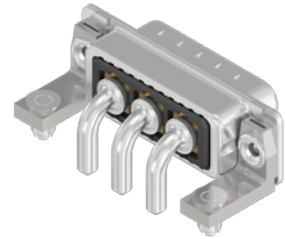
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3WB	20	285			E228329	3	3F3SSA22S56K40X	3F3SPA22S56K40X
	30	100	3.20	47			3F3SSA22S57K40X	3F3SPA22S57K40X
	40	3.75					3F3SSA22S58K40X	3F3SPA22S58K40X
5W5	20	285			E228329	3	5F5SSA22S56K40X	5F5SPA22S56K40X
	30	100	3.20	47			5F5SSA22S57K40X	5F5SPA22S57K40X
	40	3.75					5F5SSA22S58K40X	5F5SPA22S58K40X
8WB	20	285			E228329	3	8F8SSA22S56K40X	8F8SPA22S56K40X
	30	100	3.20	47			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

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



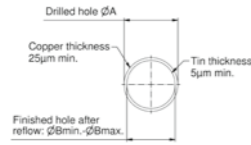
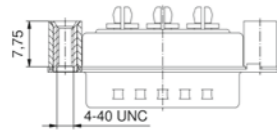
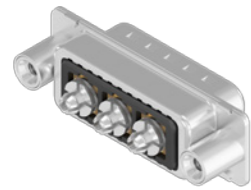
For other capacitance values refer to the part number creator.

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

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	3.11	47	E228329	3	2F2CSA22S56K40X	2F2CPA22S56K40X
	30	100	3.20				2F2CSA22S57K40X	2F2CPA22S57K40X
	40	3.75	3.20				2F2CSA22S58K40X	2F2CPA22S58K40X
3W3C	20	285	3.11	47	E228329	3	3F3CSA22S56K40X	3F3CPA22S56K40X
	30	100	3.20				3F3CSA22S57K40X	3F3CPA22S57K40X
	40	3.75	3.20				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

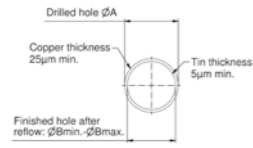
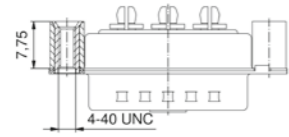
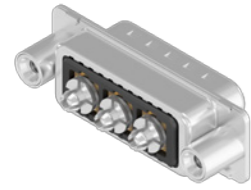
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	30	100	3.11	47	E228329	3	3F3SSA22SP1AA0X	3F3SPA22SP1AA0X
	30	3.25	3.20				3F3SSA22SP2AA0X	3F3SPA22SP2AA0X
	30	3.20	3.20				3F3SSA22SP4AA0X	3F3SPA22SP4AA0X
5W5	30	100	3.11	47	E228329	3	5F5SSA22SP1AA0X	5F5SPA22SP1AA0X
	30	3.25	3.20				5F5SSA22SP2AA0X	5F5SPA22SP2AA0X
	30	3.20	3.20				5F5SSA22SP4AA0X	5F5SPA22SP4AA0X
8W8	30	100	3.11	47	E228329	3	8F8SSA22SP1AA0X	8F8SPA22SP1AA0X
	30	3.25	3.20				8F8SSA22SP2AA0X	8F8SPA22SP2AA0X
	30	3.20	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.

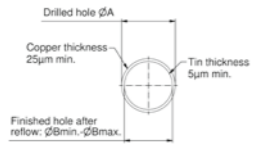
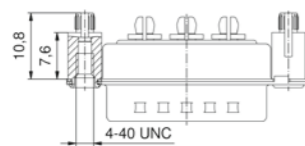
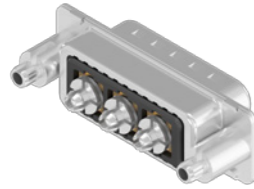
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

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

No. of poles	Current rating [A]	Working voltage [VDC]	Hole diameter PCB [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	30	100	3.11	47	E228329	3	3F3SSA22SP1W40X	3F3SPA22SP1W40X
			3.25				3F3SSA22SP2W40X	3F3SPA22SP2W40X
			3.20				3F3SSA22SP4W40X	3F3SPA22SP4W40X
5W5	30	100	3.11	47	E228329	3	5F5SSA22SP1W40X	5F5SPA22SP1W40X
			3.25				5F5SSA22SP2W40X	5F5SPA22SP2W40X
			3.20				5F5SSA22SP4W40X	5F5SPA22SP4W40X
8W8	30	100	3.11	47	E228329	3	8F8SSA22SP1W40X	8F8SPA22SP1W40X
			3.25				8F8SSA22SP2W40X	8F8SPA22SP2W40X
			3.20				8F8SSA22SP4W40X	8F8SPA22SP4W40X

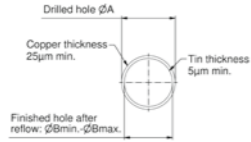
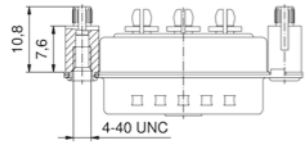
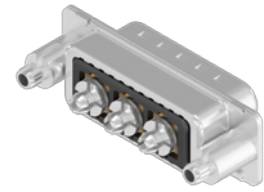
Termination Code	ø A	ø B min.	ø B max.
P1	3.13	2.96	3.11
P2	3.27	3.10	3.25
P4	3.22	3.02	3.20

FILTER COMBINATION D-SUB CONNECTORS
C-Filter

Press-fit contact straight
Precision machined contacts

4-40 UNC rear press-fit spacer, coded version

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

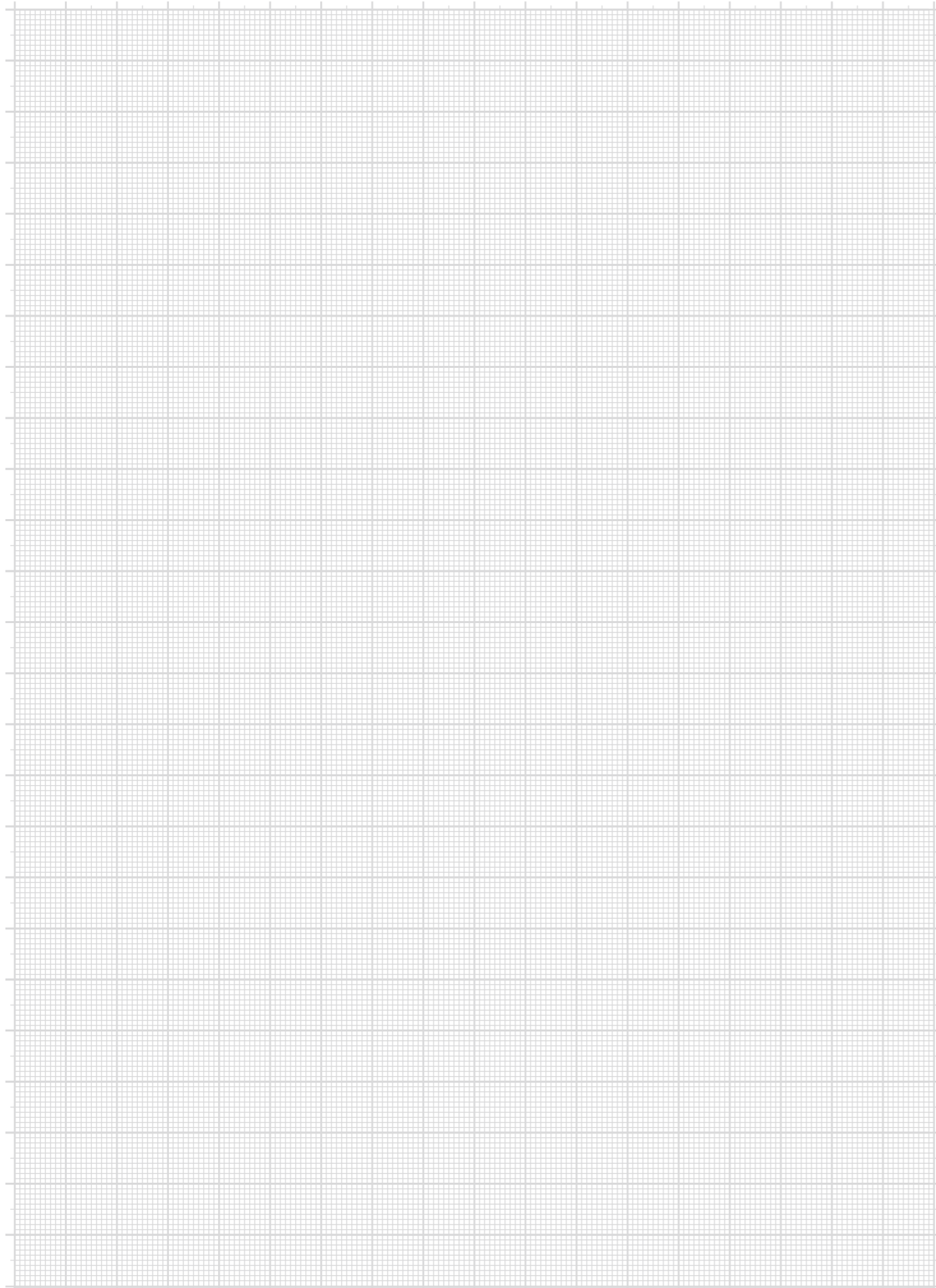


For other capacitance values refer to the part number creator.

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

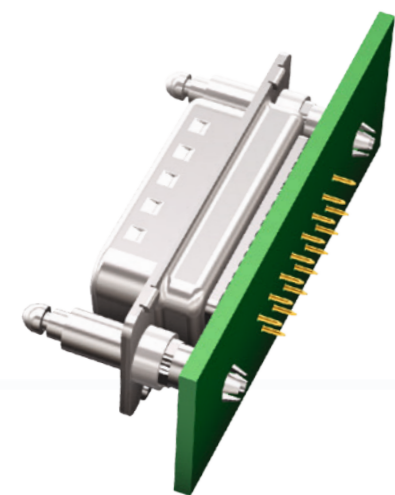
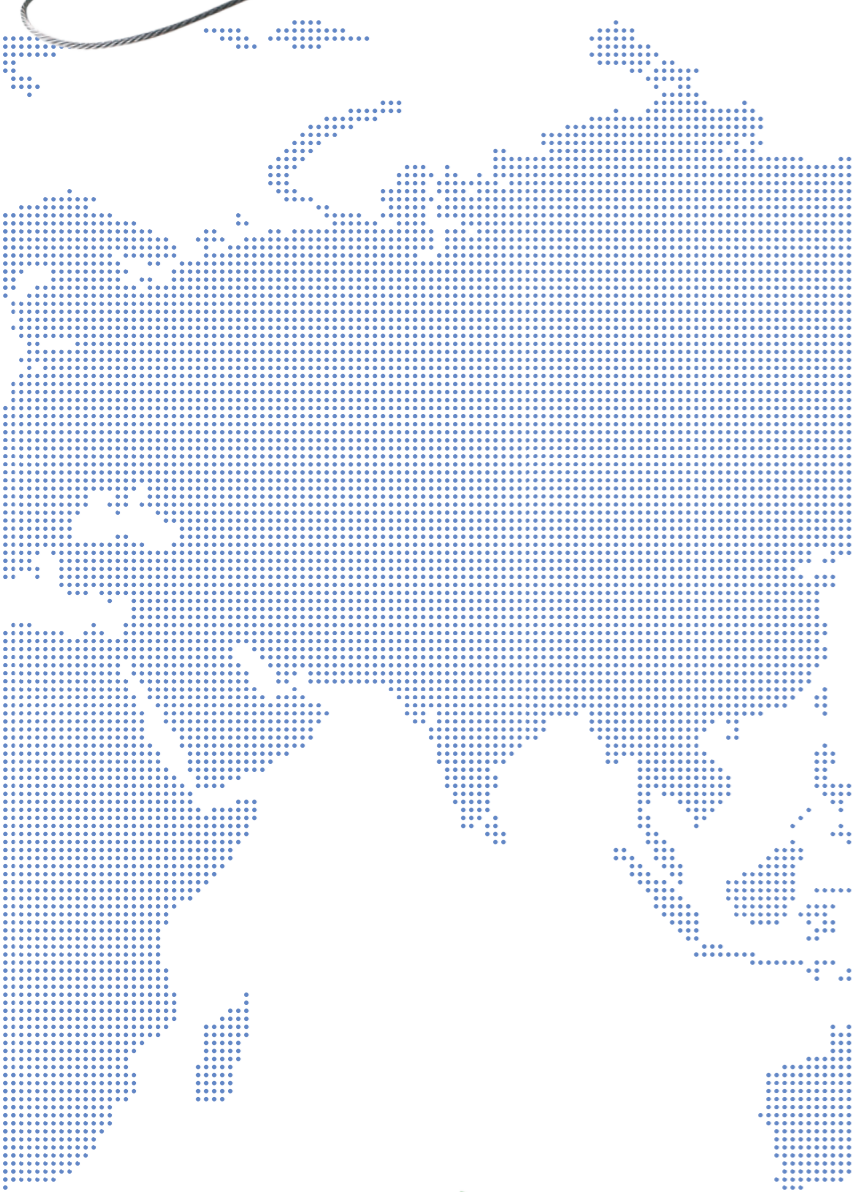
No. of poles	Current rating [A]	Working voltage [VDC]	Hole diameter PCB [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	30	100	3.11	47	E228329	3	2F2CSA22SP1W40X	2F2CPA22SP1W40X
			3.25				2F2CSA22SP2W40X	2F2CPA22SP2W40X
			3.20				2F2CSA22SP4W40X	2F2CPA22SP4W40X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

Termination Code	ϕA	ϕB min.	ϕB max.
P1	3.13	2.96	3.11
P2	3.27	3.10	3.25
P4	3.22	3.02	3.20



D-SUB HOODS AND ACCESSORIES





D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

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

4-40 UNC short screw		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09				31.7	30			E202784	165X17409X
	15				40	32				165X17419X
	25	1	/		53.7	35	15			165X17429X
	37				70.2	41				165X17439X
	50				67.8	41	17.7	9.3		165X17449X

On request:
• M3 thread

4-40 Unc jack screw		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09				31.7	45.1			E202784	165X17309X
	15				40	48.2				165X17319X
	25	1	/		53.7	51.3	15			165X17329X
	37				70.2	54.4				165X17339X
	50				67.8	57.5	17.7	9.3		165X17349X

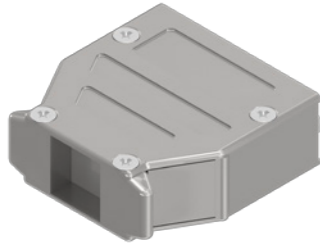
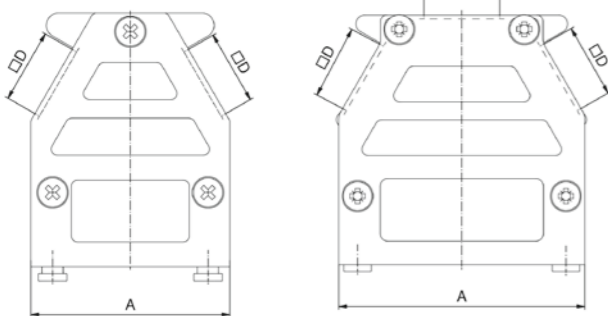
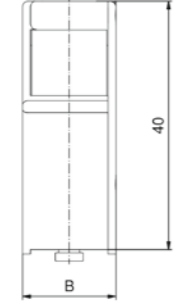
D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
Side cable entry, with cable sleeve

4-40 UNC short screw		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09				31.8	39.5			E202784	165X17559X
	15				40.3	41				165X17569X
	25	/	1		54	45	15.4			165X17579X
	37				70.2	48				165X17589X
	50				67.8	48	18.5	9.3		165X17599X

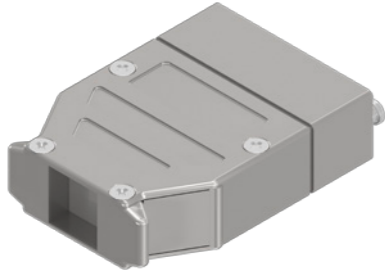
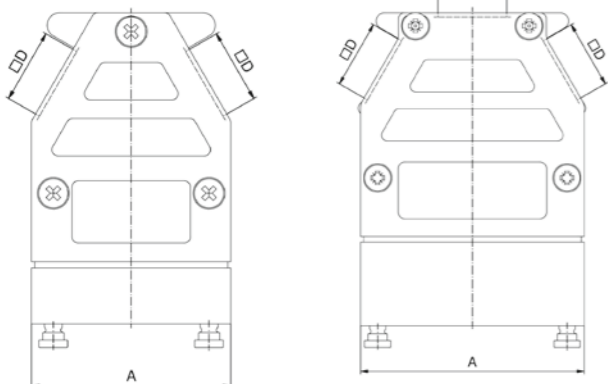
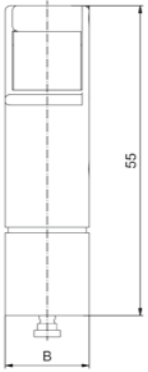
D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast
Variable cable entries


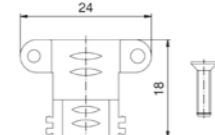
Type 1 without jack screws

Type 1 without jack screws		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File	Part No.
 		09	/		32				165X10819X
		15			39.3				165X10829X
		25	2		53.2	14.8	12.1	E202784	165X10839X
		37	1		69.5				165X10849X
		50			67	17.8	14.6		165X10859X

Type 2 without jack screws

 		09	/		32				165X11159X
		15			39.3				165X10869X
		25	2		53.2	14.8	12.1	E202784	165X10879X
		37	1		69.5				165X10889X
		50			67	17.8	14.6		165X10899X

Cable clamp

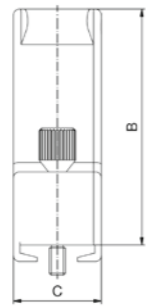
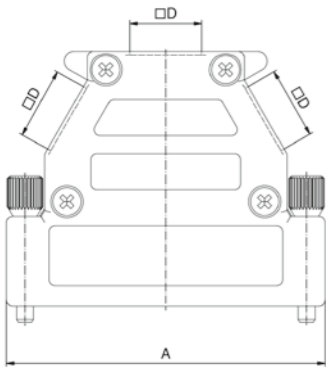
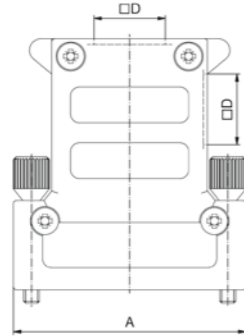
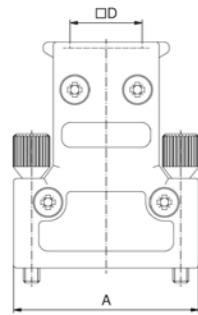
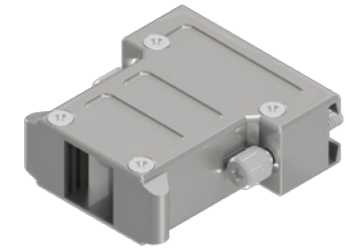
Cable clamp		No. of poles	Cable diameter	Part No.
 		09-37	3-12 mm	160X11189X
		50	5-14 mm	160X11199X

Cable clamp must be ordered separately
On request:
• Crimp flange

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

Type 1 Jack screws



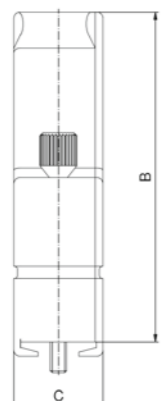
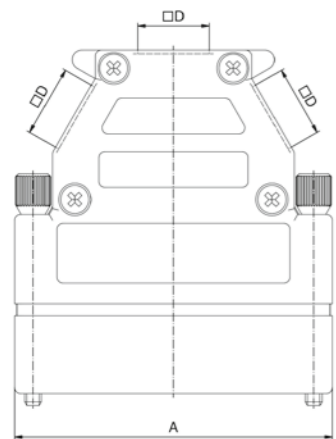
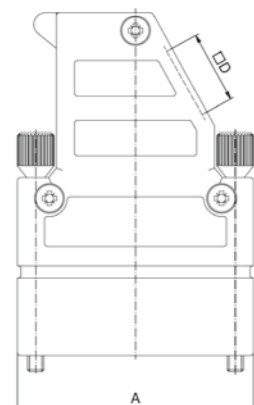
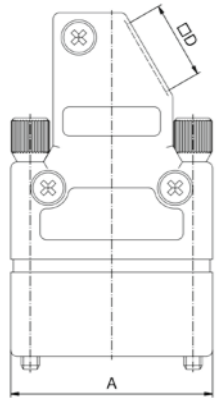
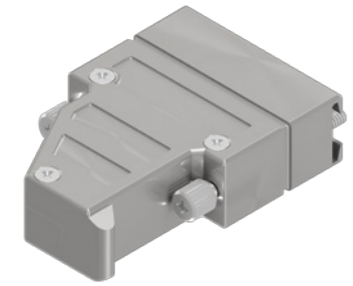
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	/	31	35.5					165X11609X
15	1	39.4						165X11619X
25	1	53.2	40	14.8		12.1	E202784	165X11629X
37	2	69.6						165X11639X
50		67	42	17.8		14.6		165X11649X

Cable clamp must be ordered separately
On request:
• M3 thread
• Crimp flange

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

Type 2 Jack screws

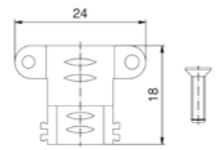
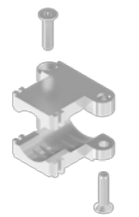


No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	/	31	50.5					165X14409X
15	1	39.4						165X14419X
25	1	53.2	55	14.8	12.1		E202784	165X14429X
37	2	69.6						165X14439X
50		67	57	17.8	14.6			165X14449X

Cable clamp must be ordered separately
On request:
• M3 thread
• Crimp flange

Cable clamp

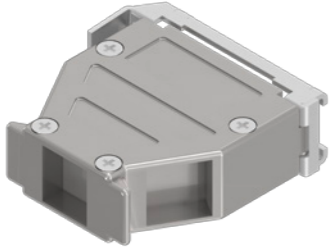
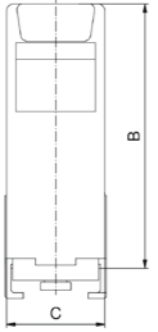
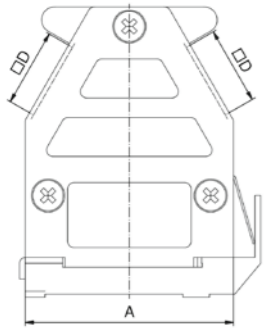
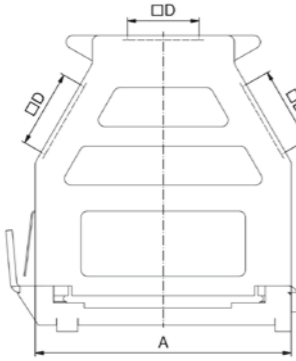

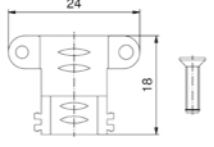
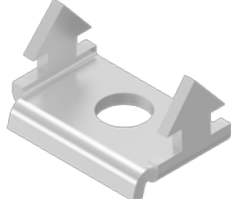

No. of poles Cable diameter



09-37	3-12 mm	160X11189X
50	5-14 mm	160X11199X

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

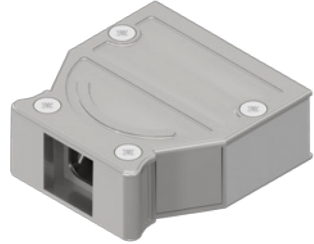
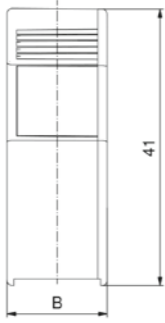
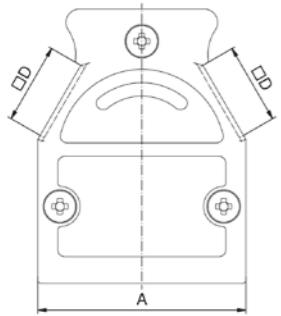
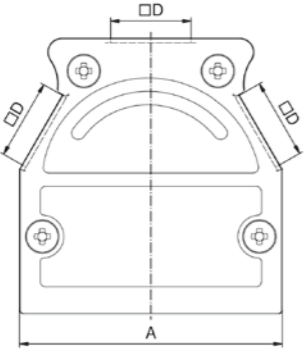
Slide lock		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File	Part No.
   	09	/		32					165X11659X
	15			39.3					165X11669X
	25	2		53.2	14.8	12.1		E202784	165X11679X
	37	1		69.5					165X11689X
	50			67	17.8	14.6			165X11699X
Cable clamp		No. of poles	Cable diameter						
 	09-37	3-12 mm		160X11189X					
	50	5-14 mm		160X11199X					
Locking hooks for slide lock									
 	09-37	165X10119X							
	50	165X10129X							

Cable clamp must be ordered separately
On request:
• Crimp flange

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

Without jack screw, internal ground

 		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File	Part No.
 		09	/		31			E202784	600X51109X
		15			39	14.8	12 x 0.9		600X51115X
		25	2		53				600X51125X
		37	1		69.5				600X51137X
		50			67	17.6	14.3 x 11.6		600X51150X

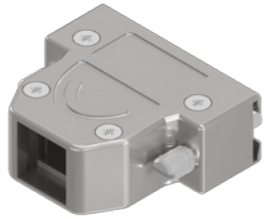
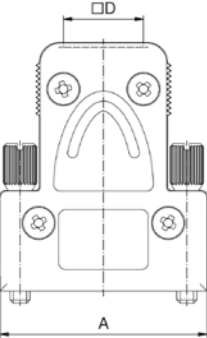
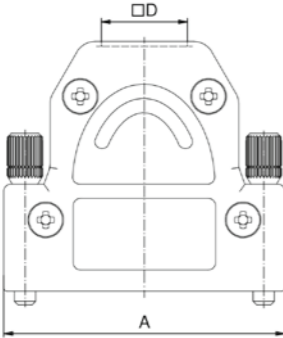
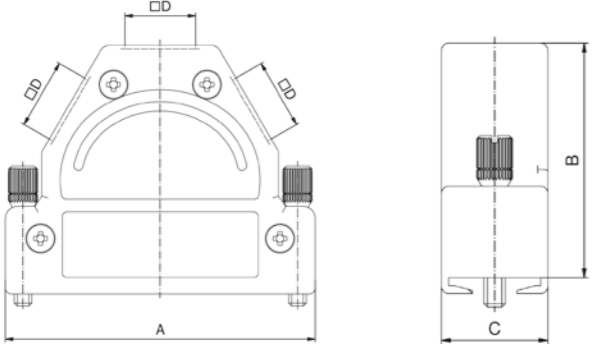

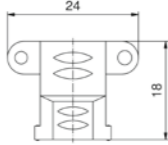
Cable clamp must be ordered separately

Cable clamp

 		No. of poles	Cable diameter	Part No.
		09-37	3-12 mm	160X10139X
50	5-14 mm	160X10149X		

D-SUB HOODS AND ACCESSORIES

D-SUB Metal Hoods, Zinc die-cast Variable cable entries

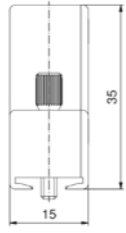
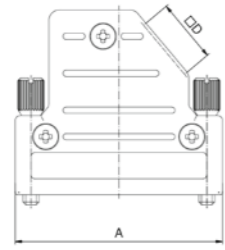
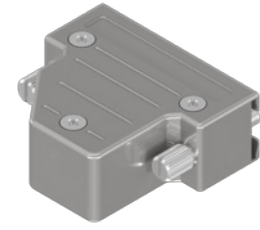
4-40 UNC jack screw		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
   	09			31	37.2	15	8 x 9.00		600X51209X	
	15	1		39	35.2		11 x 9.00	E202784	600X51215X	
	25	2		53	42.7	14.8	11.5 x 9.00		600X51225X	
Cable clamp		No. of poles	Cable diameter							
 	09-37	3-12 mm		160X10139X						

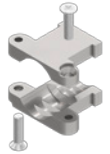
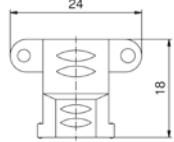
Cable clamp must be ordered separately
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast
Side cable entry, jack screws

With jack screw, internal ground

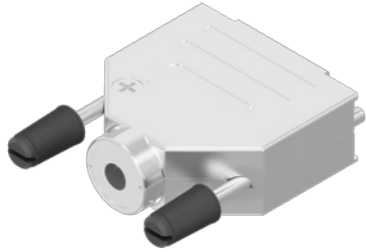
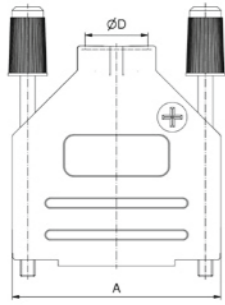
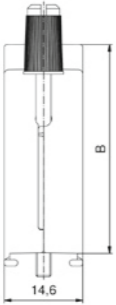
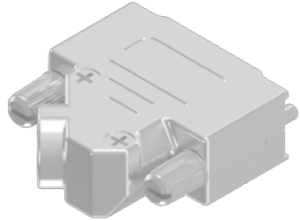
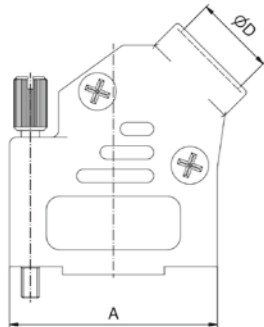
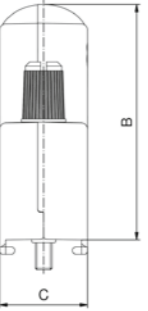
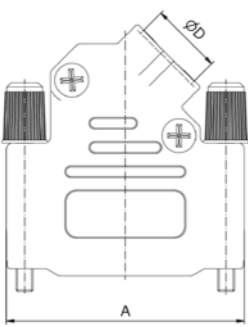


No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure D [mm]	UL-File	Part No.
09			31	10 x 9.2	E202784	600X51309X
15	/	1	39	12 x 9.2		600X51315X
25			53			600X51325X
Cable clamp		No. of poles	Cable diameter			
 		09-25	3-12 mm			160X10139X

Cable clamp must be ordered separately
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
Straight cable entry, plastic strain relief

4-40 UNC jack screw		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File	Part No.
  	09	1	1	31.2	38.3	4 - 13	E202784	165X02609X	
	15	1	1	39.3	40.5	4 - 13		165X02619X	
	25	1	1	53.4	47.8	4 - 13		165X02629X	
	37	1	1	69.9	52.2	4 - 13		165X02639X	
4-40 UNC jack screw									
   	09	1	1	31	36.2	4 - 13	E202784	165X02689X	
	15	1	1	39.5	40.2	4 - 13		165X02699X	
	25	1	1	53.2	40.2	4 - 13		165X02709X	
	37	1	1	69.7	40.2	4 - 13		165X02719X	

Attenuation factor: > 40 dB between 30 Mhz and 1 GHz
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
Side cable entry, plastic strain relief

4-40 UNC jack screw		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Part No.
	09			1	37.7	16-002730
	15	/			46	16-002740

Attenuation factor: > 40 dB between 30 Mhz and 1 GHz
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES
CONEC SnapLock

D-SUB Plastic Hoods, unshielded
Variable cable entries

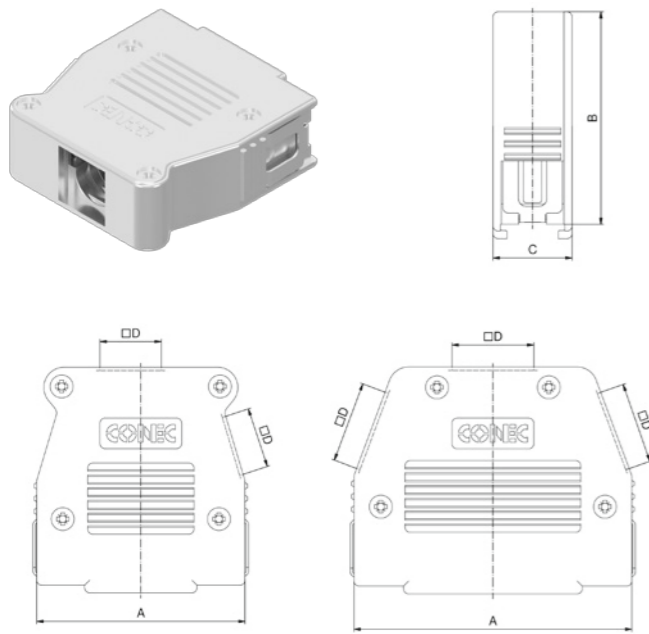
SnapLock, plastic black		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
	09			1	32.5			8.5	16-001810
	15				40.8		15.4	10	16-001820
	25	1			54.4	41.5			16-001830
	37		2		70.9			11	16-001840
	50				68.5		18.4	12	16-001850

For hood to hood connection please order connection bolts separately

D-SUB HOODS AND ACCESSORIES
CONEC SnapLock

D-SUB Plastic Hoods, shielded
Variable cable entries

SnapLock, plastic metallized

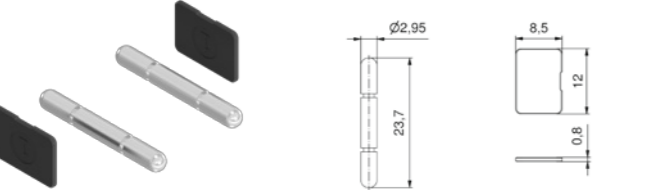
		No. of poles	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
		Number of straight cable entries						
09	1	32.5	8.5	16-001750				
15	1	40.8	10	16-001760				
25	1	54.4	11	16-001770				
37	2	70.9	11	16-001780				
50	2	68.5	12	16-001790				

For hood to hood connection please order connection bolts separately

D-SUB HOODS AND ACCESSORIES
CONEC SnapLock

Kit Encoding Connection bolts
for SnapLock

Locking Kit hood-to-hood

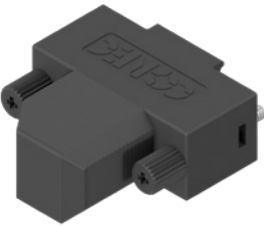
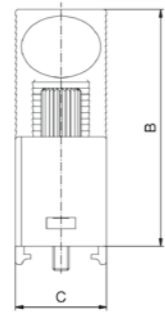
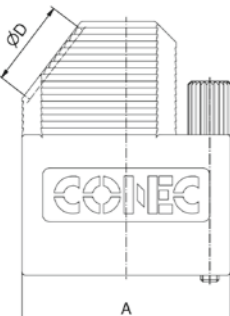
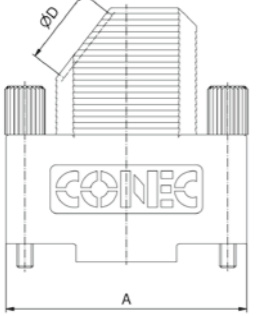
		Part No.	
		16-002200	

16-002200

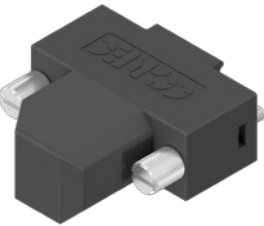
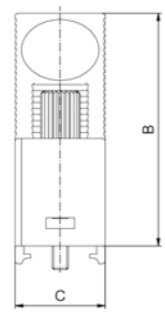
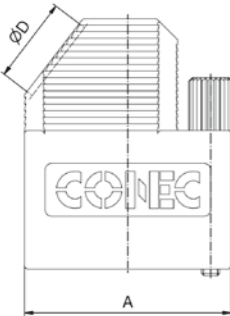
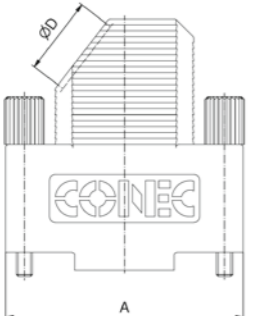
D-SUB HOODS AND ACCESSORIES

**D-SUB Plastic Hoods, unshielded
Side cable entry**

Plastic black, jack screws with plastic head 4-40 UNC

		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
   	09			31.3				8	E202784	165X11709X
	15			39.62				9		165X11719X
	25	/	1	53.52	39.15		15			165X11729X
	37			69.8				11		165X11739X
	50			67.41		19	14.5			165X11749X

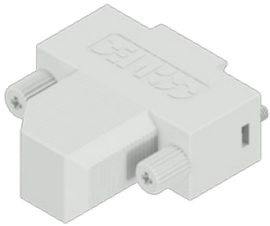
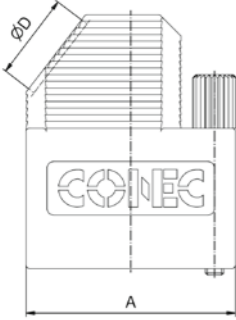
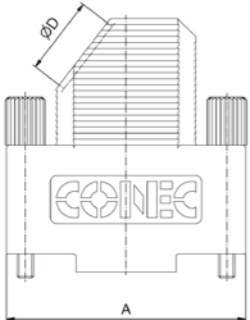
Plastic black, jack screws 4-40 UNC

   	09			31.3				8	E202784	165X00829A
	15			39.62				9		165X00839A
	25	/	1	53.52	39.15		15			165X00849A
	37			69.8				11		165X00859A
	50			67.41		19	14.5			165X00869A

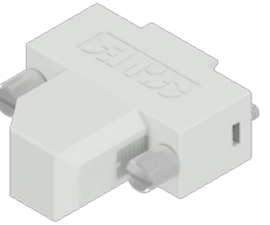
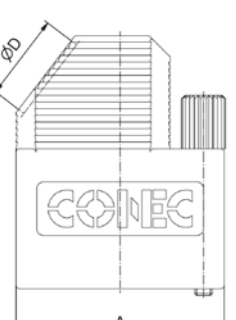
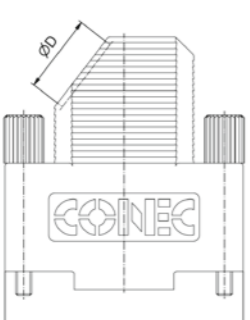
D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, unshielded Side cable entry

Plastic grey, jack screws with plastic head 4-40 UNC

		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
  	09				31.3			8	E202784	165X16019X
	15				39.62			9		165X16029X
	25	1			53.52	39.15	15			165X16039X
	37				69.8			11		165X16049X
	50				67.41		19	14.5		165X16059X

Plastic grey, jack screws 4-40 UNC

  	09				31.3			8	E202784	165X16069X
	15				39.62			9		165X16079X
	25	1			53.52	39.15	15			165X16089X
	37				69.8			11		165X16099X
	50				67.41		19	14.5		165X16109X

D-SUB HOODS AND ACCESSORIES

**D-SUB Plastic Hoods, shielded
Side cable entry**

Plastic black, jack screws with plastic head 4-40 UNC

		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09					31.3			8	E202784	165X11759X
15				39.62			9	165X11769X		
25	/	1		53.52	39.15	15		165X11779X		
37				69.8			11	165X11789X		
50				67.41	19	14.5		165X11799X		

Plastic black, jack screws 4-40 UNC

		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09					31.3			8	E202784	165X00779A
15				39.62			9	165X00789A		
25	/	1		53.52	39.15	15		165X00799A		
37				69.8			11	165X00809A		
50				67.41	19	14.5		165X00819A		

Attenuation factor at 10 MHz > 60dB

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, shielded Side cable entry

Plastic grey, jack screws with plastic head 4-40 UNC

No. of poles		Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	15								
09				31.3					165X16119X
15				39.62					165X16129X
25		1		53.52	39.15	15		E202784	165X16139X
37				69.8			11		165X16149X
50				67.41		19	14.5		165X16159X

Plastic grey, jack screws 4-40 UNC


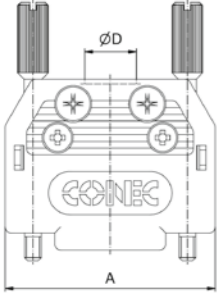
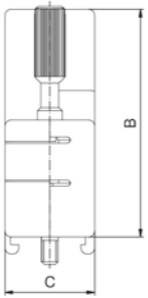
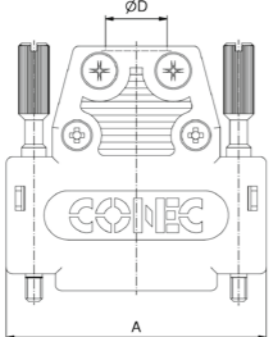
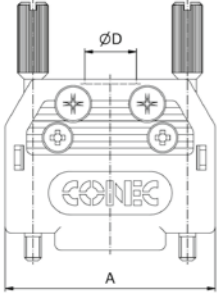
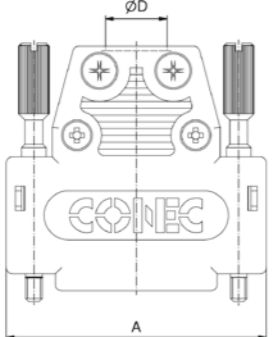
No. of poles		Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	15								
09				31.3					165X16169X
15				39.62					165X16179X
25		1		53.52	39.15	15		E202784	165X16189X
37				69.8			11		165X16199X
50				67.41		19	14.5		165X16209X

Attenuation factor at 10 MHz > 60dB


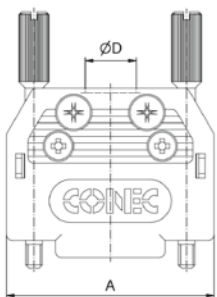
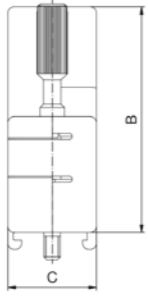
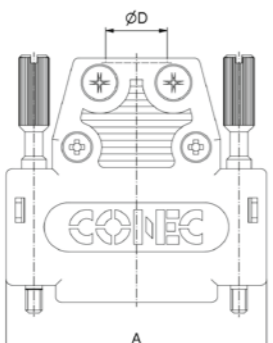
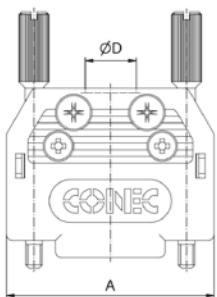
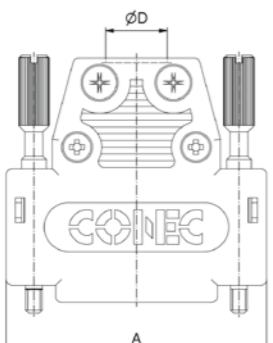
D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoodss, two part Straight cable entry

Plastic black, 4-40 UNC jack screws

 		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
		09			34	25		8.5	E202784	165X10139X
		15			42.3		14.5	10		165X10149X
		25	1	/	56	37		10.5		165X10159X
		37			72.5					165X10169X
 		50			67	49.1	19.8	14	165X10179X	

Plastic metallized, 4-40 UNC jack screws


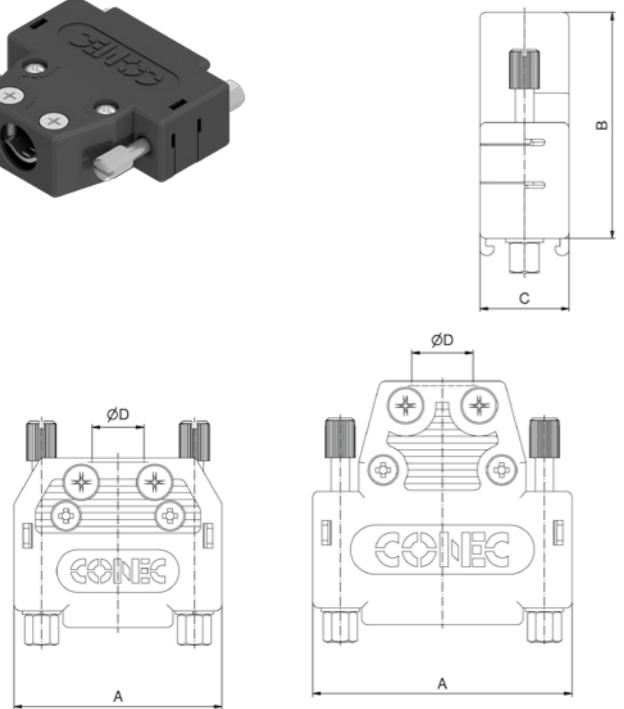
 		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
		09			34	25		8.5	E202784	165X10909X
		15			42.3		14.5	10		165X10919X
		25	1	/	56	37		10.5		165X10929X
		37			72.5					165X10939X
 		50			67	49.1	19.8	14	165X10949X	

Integrated cable clamping
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES


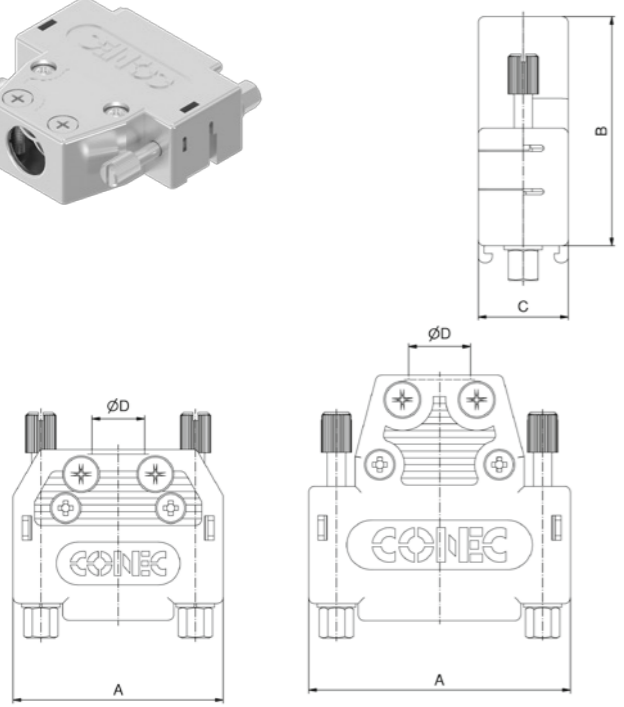
D-SUB Plastic Hoods, two part Straight cable entry, Cable-to-cable connection

Plastic black, 4-40 UNC jack screws 4-40 UNC hex bolt

		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09				34	25		8.5	E202784	165X10239X
	15				42.3			10		165X10249X
	25	1	/		56	37	14.5			165X10259X
	37				72.5			10.5		165X10269X
	50				67	49.1	19.8	14		165X10279X

Integrated cable clamping
On request:
• M3 thread

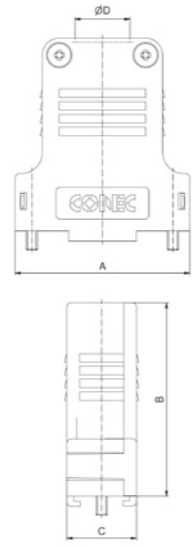
Plastic metallized, 4-40 UNC jack screws 4-40 UNC hex bolt

		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09				34	25		8.5	E202784	165X11009X
	15				42.3			10		165X11019X
	25	1	/		56	37	14.5			165X11029X
	37				72.5			10.5		165X11039X
	50				67	49.1	19.8	14		165X11049X

D-SUB HOODS AND ACCESSORIES
Suitable for Combination D-SUB Connectors

D-SUB Plastic Hoods, large internal space
Straight cable entry

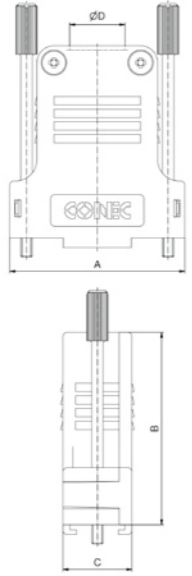
Plastic black, 4-40 UNC short screw



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			32.9	39.5			E202784	165X13369X
15			41.2	45.5	16.3	11		165X13379X
25	1	/	54.9	52.5		12		165X13389X
37			71.4	55.5	18.7	15		165X13399X
50			69	55	19.5	14		165X13409X

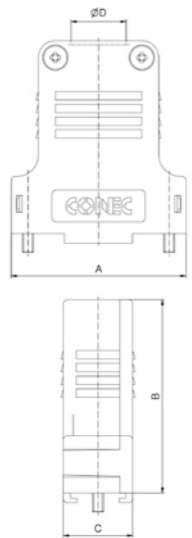
Large internal space for crimp, high power and coaxial contacts
On request:
• M3 thread

Plastic black, 4-40 UNC jack screws



09			32.9	39.5			E202784	165X03309A
15			41.2	45.5	16.3	11		165X03319A
25	1	/	54.9	52.5		12		165X03329A
37			71.4	55.5	18.7	15		165X03339A
50			69	55	19.5	14		165X03349A

Plastic metallized, 4-40 UNC short screws


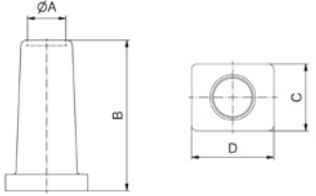


09			32.9	39.5			E202784	165X13469X
15			41.2	45.5	16.3	11		165X13479X
25	1	/	54.9	52.5		12		165X13489X
37			71.4	55.5	18.7	15		165X13499X
50			69	55	19.5	14		165X13509X

D-SUB HOODS AND ACCESSORIES
 Suitable for Combination D-SUB Connectors


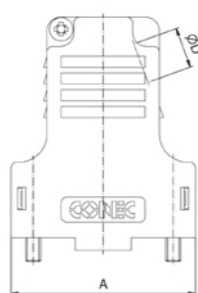
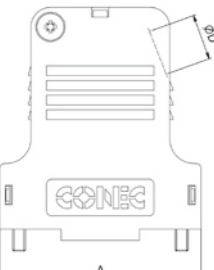
D-SUB Plastic Hoods, large internal space

Cable grommet for 9 - 50 pos. hood

	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
 	09/15	5	24.5	11.2	11.2	795-907600
	25/37	7	27.5	12.2	15	795-907700
	50	9.3	29.2	15	20	795-907800


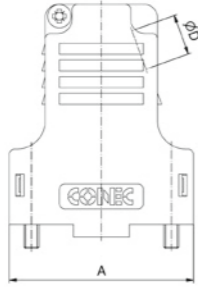
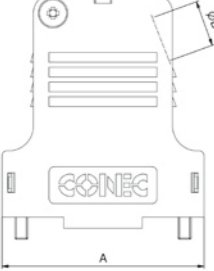
D-SUB HOODS AND ACCESSORIES
Suitable for Combination D-SUB Connectors

D-SUB Plastic Hoods, large internal space
Side cable entry

Plastic black, 4-40 UNC short screws		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
  	09				32.9	39.5		8.6	E202784	165X13419X
	15				41.2	45.5	16.4	9.4		165X13429X
	25	/	1		54.9	52.5		13		165X13439X
	37				71.4	55	18.8	15		165X13449X
	50				69	19.6	14.9			165X13459X


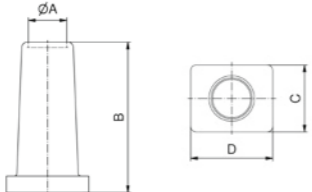
Large internal space for crimp, high power and coaxial contacts
On request:
• M3 thread

Plastic metallized, 4-40 UNC short screws

  	09				32.9	39.5		8.6	E202784	165X13519X
	15				41.2	45.5	16.4	9.4		165X13529X
	25	/	1		54.9	52.5		13		165X13539X
	37				71.4	55	18.8	15		165X13549X
	50				69	19.6	14.9			165X13559X

D-SUB HOODS AND ACCESSORIES
Suitable for Combination D-SUB Connectors

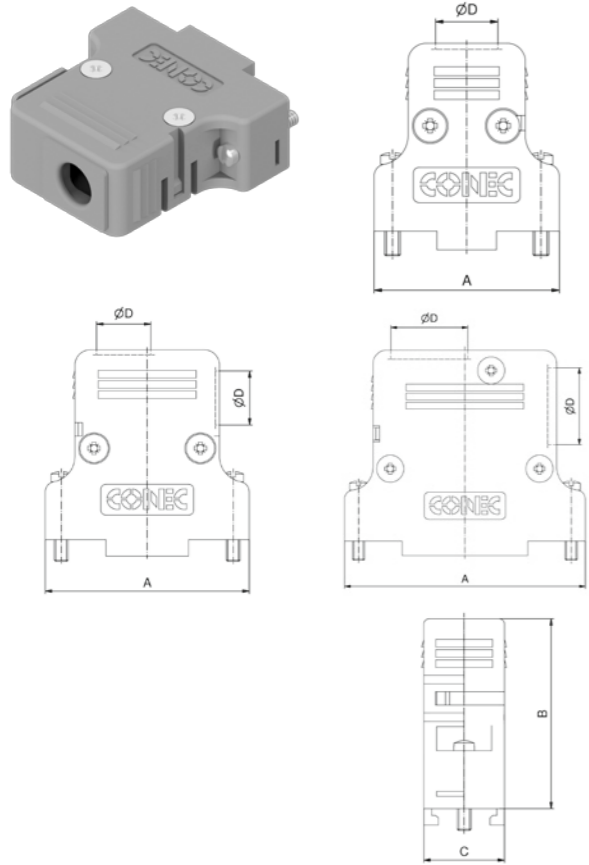
D-SUB Plastic Hoods, large internal space
Side cable entry

Cable grommet for 9 - 50 pos. hood		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
 	09/15	5	24.5	11.2	11.2	795-907600	
	25/37	7	27.5	12.2	15	795-907700	
	50	9.3	29.2	15	20	795-907800	

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, fixed screws
Variable cable entries

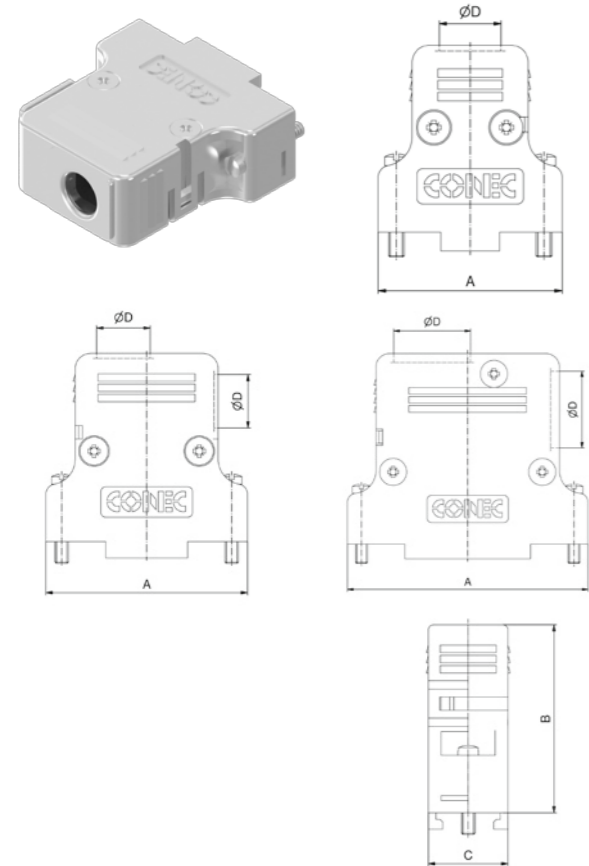
Plastic grey, 4-40 UNC short screws



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	/		31.2	31.8				165X11869X
15			39.5	37		8		165X11879X
25	1		53.2		15.6		E202784	165X11889X
37		1	69.7	42.2				165X11899X
50			67.3	18.5	12.5			165X11909X

Integrated cable clamping

Plastic metallized, 4-40 UNC short screws


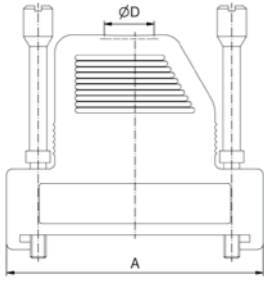
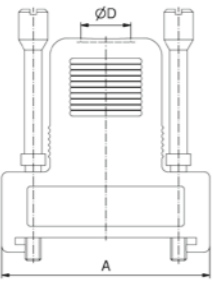
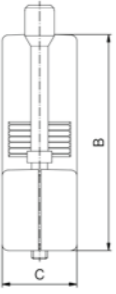
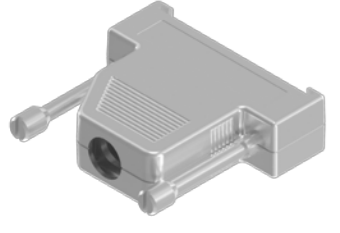
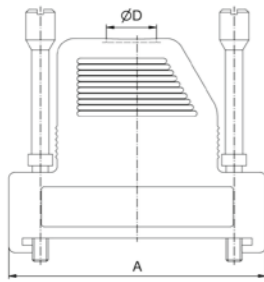
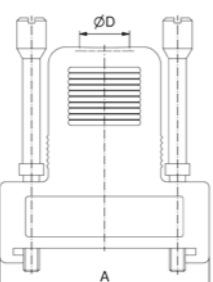
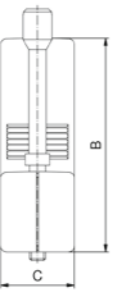


09	/		31.2	31.8				165X11919X
15			39.5	37		8		165X11929X
25	1		53.2		15.6		E202784	165X11939X
37		1	69.7	42.2				165X11949X
50			67.3	18.5	12.5			165X11959X

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, low profile Straight cable entry

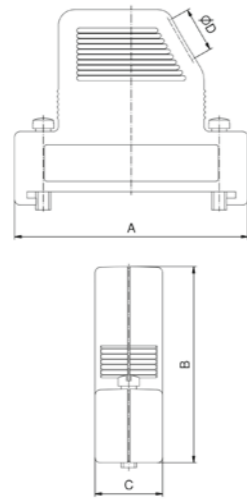
Space-saving, side-by-side mounting
Packaging: in pack units as a single package

Plastic black, 4-40 UNC jack screws		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
 	 	09	1	0	35.8	37	12.6	8	E202784	165X16219X
		15	1	0	44.1	38	12.6	8	E202784	165X16229X
		25	1	1	57.9	41	12.6	9	E202784	165X16239X
		37	1	1	74.3	41	12.6	9	E202784	165X16249X
Plastic metallized, 4-40 UNC jack screws		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
 	 	09	1	0	35.8	37	12.6	8	E202784	165X16299X
		15	1	0	44.1	38	12.6	8	E202784	165X16309X
		25	1	1	57.9	41	12.6	9	E202784	165X16319X
		37	1	1	74.3	41	12.6	9	E202784	165X16329X

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, low profile Side cable entry

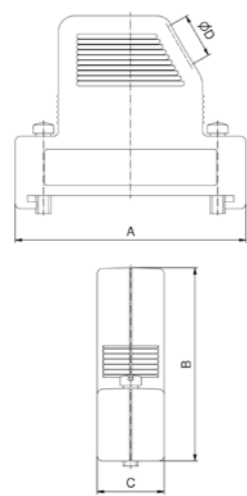
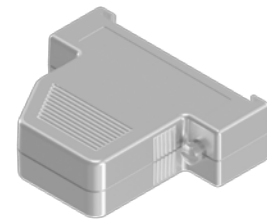
Plastic black, 4-40 UNC short screws



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			35.8	37				165X16379X
15			44.1	38				165X16389X
25		1	57.9	41	12.6	8	E202784	165X16399X
37			74.3	41		9		165X16409X

Space-saving, side-by-side mounting
Packaging: in pack units as a single package

Plastic metallized, 4-40 UNC short screws


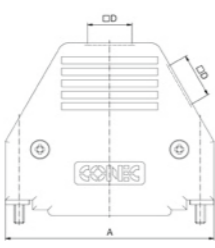


09			35.8	37				165X16459X
15			44.1	38				165X16469X
25		1	57.9	41	12.6	8	E202784	165X16479X
37			74.3	41		9		165X16489X


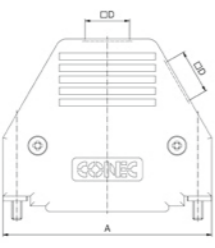
D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, integrated strain relief Straight and side cable entry

Plastic black, 4-40 UNC short screws

 	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09			32	36.7				165X11239X
	15			40	38.2				165X11249X
	25	1	1	54.2	42.2	16.5		E202784	165X11259X
	37			70.6	47.2				165X11269X
	50			68.2	20.6		13.7		165X16539X

Plastic black, slide lock version including spring


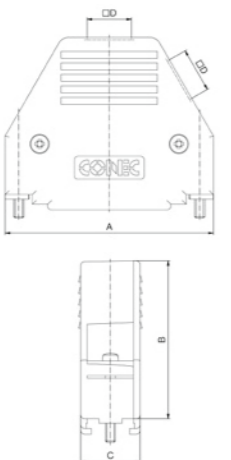
 	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09			32	36.7				165X11279X
	15			40	38.2				165X11289X
	25	1	1	54.2	42.2	16.5		E202784	165X11299X
	37			70.6	47.2				165X11309X
	50			68.2	20.6		13.7		165X16549X

Entries not in use are blanked off with blanking plugs

D-SUB HOODS AND ACCESSORIES


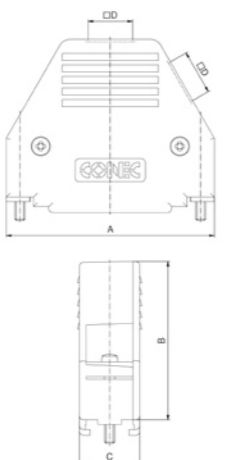
D-SUB Plastic Hoods, integrated strain relief Straight and side cable entry

Plastic metallized, 4-40 UNC short screws

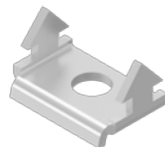

 	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09				32	36.7		6.3	E202784
15				40	38.2		8	165X11329X	
25	1	1		54.2	42.2	16.5	10.5	165X11339X	
37				70.6	47.2		11.5	165X11349X	
50				68.2	47.2	20.6	13.7	165X16559X	

Entries not in use are blanked off with blanking plugs

Plastic metallized, slide lock version including spring

 	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09				32	36.7		6.3	E202784
15				40	38.2		8	165X11369X	
25	1	1		54.2	42.2	16.5	10.5	165X11379X	
37				70.6	47.2		11.5	165X11389X	
50				68.2	47.2	20.6	13.7	165X16569X	

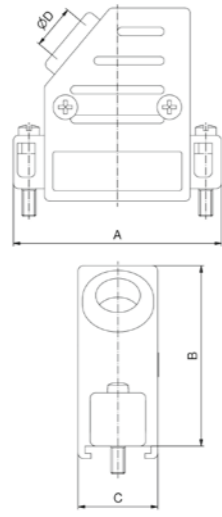
Locking hooks for 9-50 pos. hood

 	No. of poles		Part No.
	09-37		
50			165X16609X

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods Side cable entry

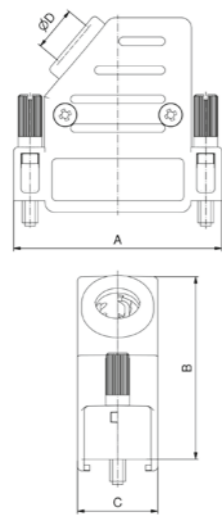
Plastic black, 4-40 UNC short screws



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			31.5	37			E202784	600X54009X
15			40			8.5		600X54015X
25	1		53.5	15.2		11		600X54025X
37			70	41				600X54037X
50			67.8	18.2		12		600X54050X

Packaging: in pack units as a single package

Plastic black, 4-40 UNC jack screws



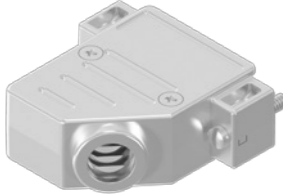
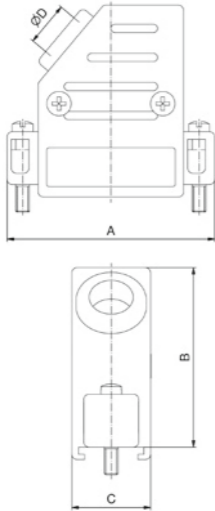
09			31.5	37			E202784	600X55009X
15			40			8.5		600X55015X
25	1		53.5	15.2		11		600X55025X
37			70	41				600X55037X
50			67.8	18.2		12		600X55050X

D-SUB HOODS AND ACCESSORIES

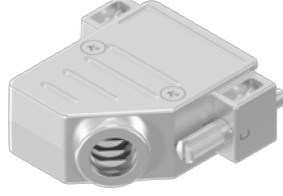
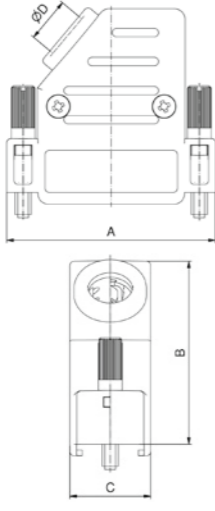
D-SUB Plastic Hoods Side cable entry

Packaging: in pack units as a single package

Plastic metallized, 4-40 UNC short screws

 	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09			31.5	37			E202784	600X56009X
	15			40					600X56015X
	25	/	1	53.5		15.2			600X56025X
	37			70	41		11		600X56037X
	50			67.8		18.2	12		600X56050X

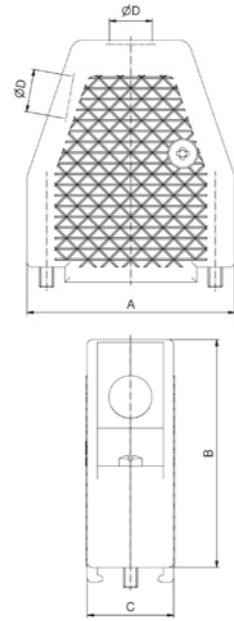
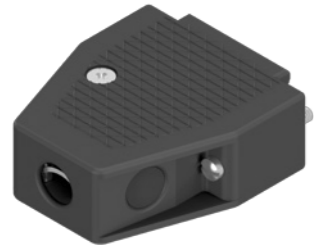
Plastic metallized, 4-40 UNC jack screws

 	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09			31.5	37			E202784	600X57009X
	15			40					600X57015X
	25	/	1	53.5		15.2			600X57025X
	37			70	41		11		600X57037X
	50			67.8		18.2	12		600X57050X

D-SUB HOODS AND ACCESSORIES

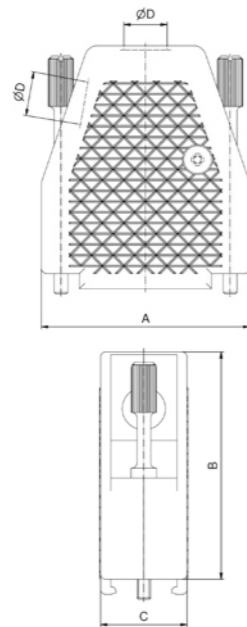
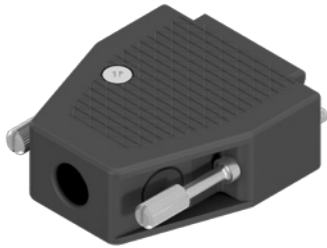
D-SUB Plastic Hoods Straight and side cable entry

Plastic black, 4-40 UNC short screws



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			33			7.5	E202784	165X13019X
15			41	45.5		8.5		165X13029X
25	1	1	55	47	17	10.5		165X13039X
37			71.3	51		11		165X13049X
50			69	50	20	12.5		165X13059X

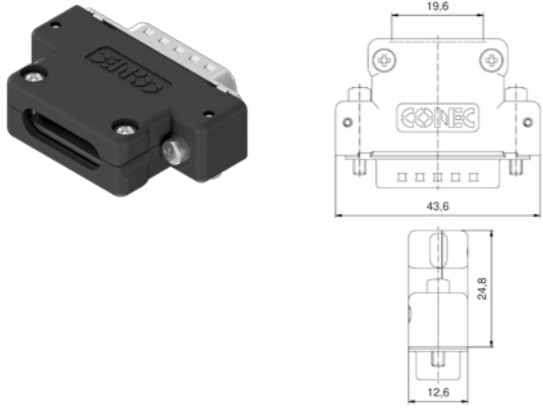
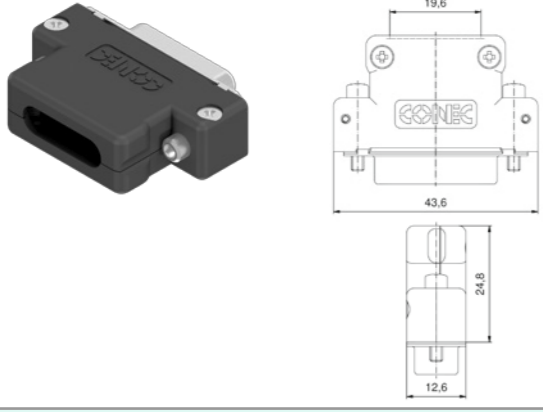
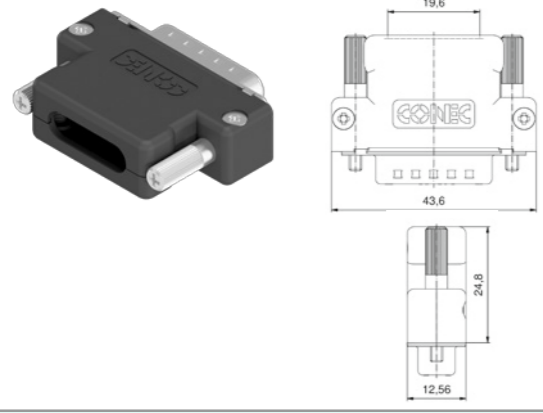
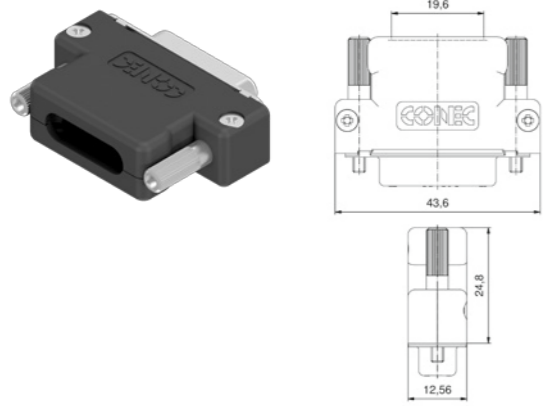
Plastic black, 4-40 UNC jack screws



09			33			7.5	E202784	165X13079X
15			41	45.5		8.5		165X13089X
25	1	1	55	47	17	10.5		165X13099X
37			71.3	51		11		165X13109X
50			69	50	20	12.5		165X13119X

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods With integrated crimp connector 7W2

		No. of poles	Number of straight cable entries	Number of side cable entries	Part No. Socket contact	Part No. Plug contact
Plastic black, short screws Philips 		7W2	1	/	13-000220	13-002780
Plastic black, short screws Inbus 		7W2	1	/	13-000210	13-002770
Plastic black, jack screws Philips 		7W2	1	/	13-000380	13-002760
Plastic black, jack screws Inbus 		7W2	1	/	13-000370	13-002750

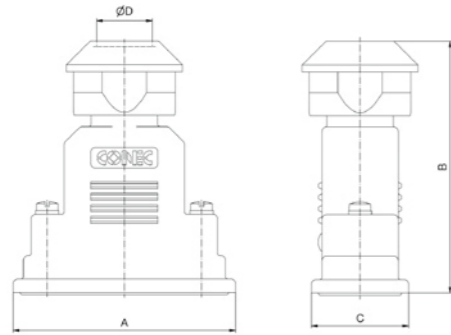
This hood can only be used in conjunction with the special connector.

- Integrated strain relief
- On request:
- Available with bridged single contacts

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB Plastic Hoods Straight cable entry

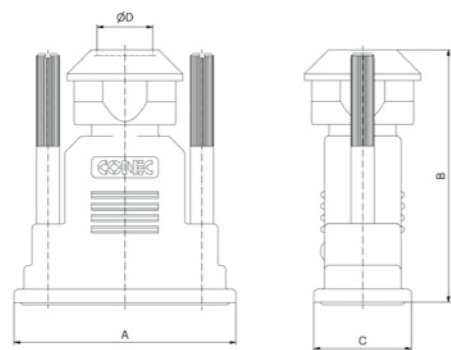
Plastic black, 4-40 UNC short screws stainless steel



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
09			40	54.3		7 - 9	15-004710
15			48	54.6	21	9 - 11	15-004720
25	1	/	62	67.7		10 - 12	15-004730
37			78	77.2	25.2	14 - 16	15-004740
50			75.6	77.2	23.8	14 - 16	15-004750

Water resistant hood for Standard and Combination D-SUB connectors
For high power and coaxial contacts
Packaging: in pack units as a single package

Plastic black, 4-40 UNC jack screws stainless steel

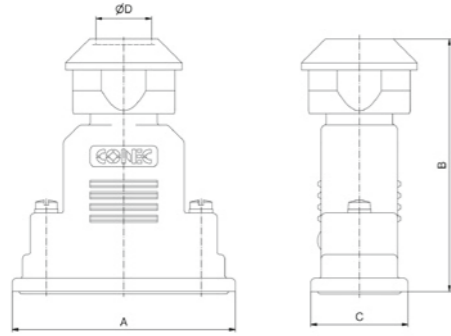
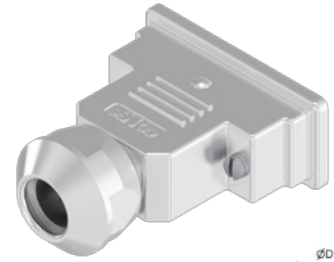


15			40	54.3		7 - 9	15-004670
25			62	67.7	21	10 - 12	15-004680
37	1	/	78	77.2	25.2	14 - 16	15-004690
50			75.6	77.2	23.8	14 - 16	15-004700

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB Plastic Hoods Straight cable entry

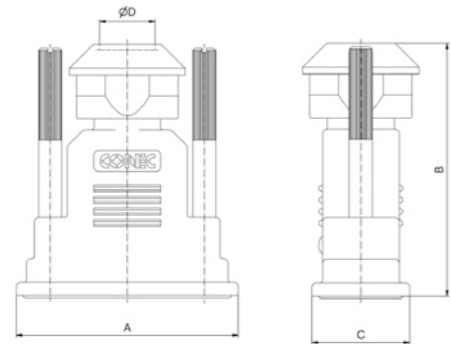
Plastic metallized, 4-40 UNC short screws stainless steel



No. of poles	No. of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
09			40	54.3		7 - 9	15-004810
15			48	54.6	21	9 - 11	15-004820
25	1	/	62	67.7		10 - 12	15-004830
37			78	77.2	25.2	14 - 16	15-004840
50			75.6	77.2	23.8	14 - 16	15-004850

Water resistant hood for Standard and Combination D-SUB connectors
For high power and coaxial contacts
Packaging: in pack units as a single package

Plastic metallized, 4-40 UNC jack screws stainless steel

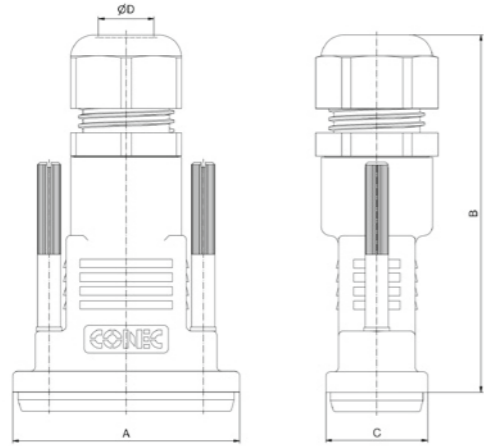


15			40	54.3	21	7 - 9	15-004770
25			62	67.7		10 - 12	15-004780
37	1	/	78	77.2	25.2	14 - 16	15-004790
50			75.6	77.2	23.8	14 - 16	15-004800

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB Plastic Hoods, large internal space Straight cable entry

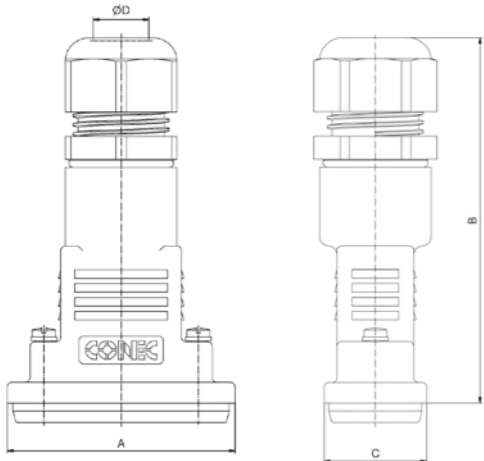
Plastic black, 4-40 UNC jack screws



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			40.76	77		5 - 10	E202784	165X14819X
15			49.06	79				165X14829X
25	1	/	62.8	87.5	22	6 - 12		165X14839X
37			78.86	99		9 - 16		165X14849X
50			76.46	107	24.8	13 - 20		165X14859X

Water resistant hood for Standard and Combination D-SUB connectors
Large internal space for crimp, high power and coaxial contacts
Accessories: Protection cap and Outside sealing made from TPE
On request:
• M3 thread

Plastic black, 4-40 UNC short screws

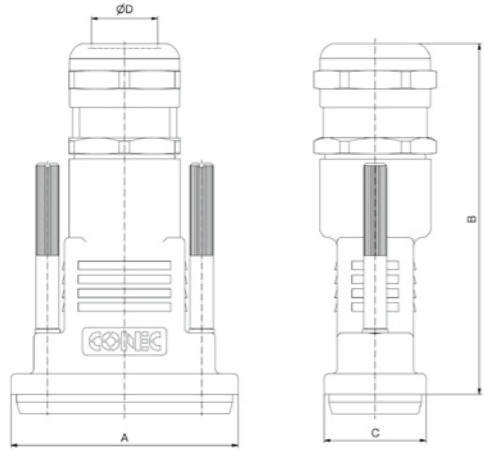


09			40.76	77		5 - 10	E202784	165X14869X
15			49.06	79				165X14879X
25	1	/	62.8	87.5	22	6 - 12		165X14889X
37			78.86	99		9 - 16		165X14899X
50			76.46	107	24.8	13 - 20		165X14909X

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB Plastic Hoods, large internal space Straight cable entry

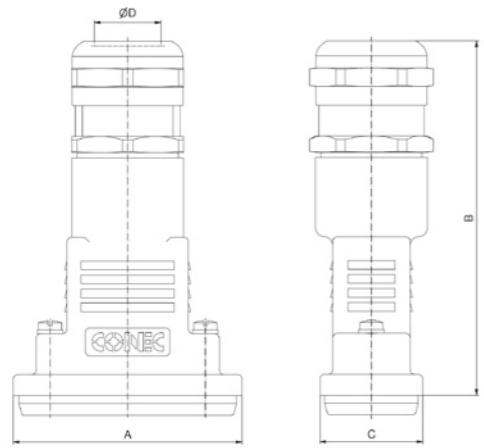
Plastic metallized, 4-40 UNC jack screws



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	
09			40.76	77		5 - 10	E202784	165X15019X
15			49.06	79				165X15029X
25	1	/	62.8	87.5	22	7 - 12		165X15039X
37			78.86	99		9 - 16		165X15049X
50			76.46	107	24.8	13 - 20		165X15059X

Water resistant hood for Standard and Combination D-SUB connectors
Large internal space for crimp, high power and coaxial contacts
Accessories: Protection cap and Outside sealing made from TPE
On request:
• M3 thread

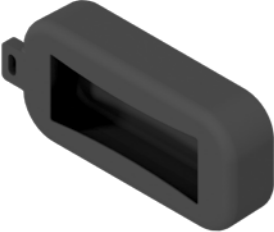
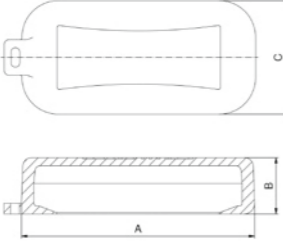

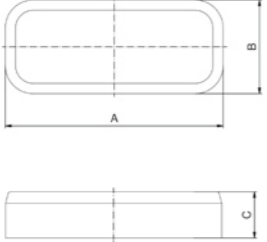
Plastic metallized, 4-40 UNC short screws



09			40.76	77		5 - 10	E202784	165X15069X
15			49.06	79				165X15079X
25	1	/	62.8	87.5	22	7 - 12		165X15089X
37			78.86	99		9 - 16		165X15099X
50			76.46	107	24.8	13 - 20		165X15109X


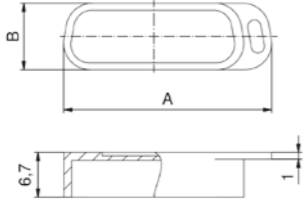

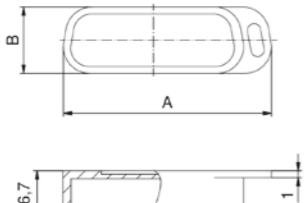
D-SUB HOODS AND ACCESSORIES

IP67 D-SUB Plastic Hoods, large internal space Straight cable entry

Protection cap		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	UL-File	Part No.
 	09	44.56	12.6	25.6	E202784	165X17509X	
	15	52.86				165X17519X	
	25	66.6				165X17529X	
	37	82.66				165X17539X	
	50	80.26				28.4	165X17549X
Outside sealing							
 	09	38.36	20	9.9	E202784	795-305420	
	15	46.66				795-305490	
	25	60.4				795-305580	
	37	76.86				795-305640	
	50	74.5				22.8	795-305710

D-SUB HOODS AND ACCESSORIES

D-SUB protection caps Plastic design, for socket connector


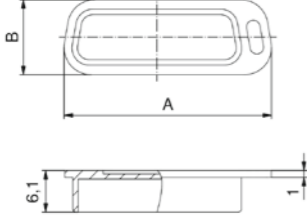

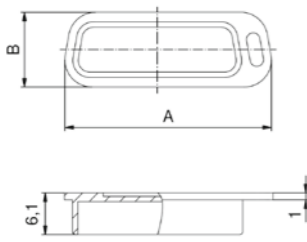
Plastic black		No. of poles	Measure A [mm]	Measure B [mm]	Part No.
 	09	22.9	10	160X10449X	
	15	31.4		160X10459X	
	25	44.7		160X10469X	
	37	61.2		160X10479X	
	50	58.8	12.8	160X10959X	
Plastic metallized					
 	09	22.9	11	600X518009X	
	15	31.4		600X518015X	
	25	44.7		600X518025X	
	37	61.2		600X518037X	
	50	58.8	13.7	600X518050X	

Dust cap protecting connector mounting area
Temperature range: -35°C... +85°C

D-SUB HOODS AND ACCESSORIES

D-SUB protection caps Plastic design, for plug connector

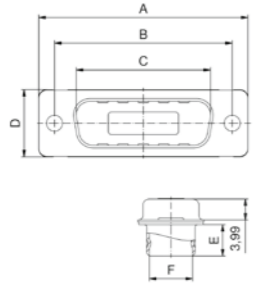
Dust cap protecting connector mounting area
Temperature range: -35 °C... +85 °C

		No. of poles	Measure A [mm]	Measure B [mm]	Part No.
Plastic black					
 	09	22.5	10	160X10409X	
	15	30.65		160X10419X	
	25	44.4		160X10429X	
	37	60.75		160X10439X	
	50	58.15	12.8	160X10969X	
Plastic metallized					
 	09	22.5	11	600X517009X	
	15	30.65		600X517015X	
	25	44.4		600X517025X	
	37	60.75		600X517037X	
	50	58.15	13.7	600X517050X	

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap Metall design, shielded, for socket connector

Through-hole Ø 3 mm



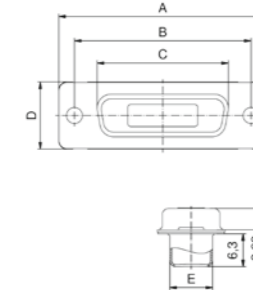
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.79	12.93	6.12	8.23	165X12969X
15	39.52	33.3	25.12				165X12979X
25	53.42	47.04	38.84				165X12989X
37	69.7	63.5	55.3				165X12999X
50	67.31	61.1	52.68				15.75

Shielded cap protecting against EMI/RFI
Shell: steel tin plated

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap Metall design, shielded, for plug connector

Through-hole Ø 3 mm



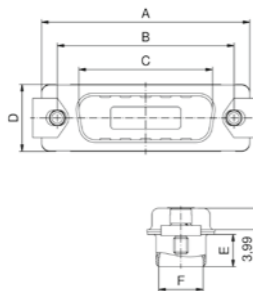
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.46	12.93	8.02	165X13129X
15	39.52	33.3	24.79			165X13139X
25	53.42	47.04	38.5			165X13149X
37	69.7	63.5	54.96			165X13159X
50	67.31	61.1	52.55			15.75

Shielded cap protecting against EMI/RFI
Shell: steel tin plated

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap Metall design, shielded, for socket connector

4-40 UNC screws and clip



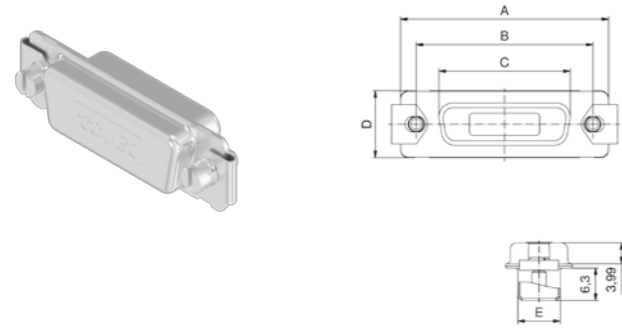
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.79	12.93	6.12	8.23	165X16719X
15	39.52	33.3	25.12				165X16729X
25	53.42	47.04	38.84				165X16739X
37	69.7	63.5	55.3				165X16749X
50	67.31	61.1	52.68				15.75

Shielded cap protecting against EMI/RFI
Shell: steel tin plated

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap Metall design, shielded, for plug connector

4-40 UNC screws and clip



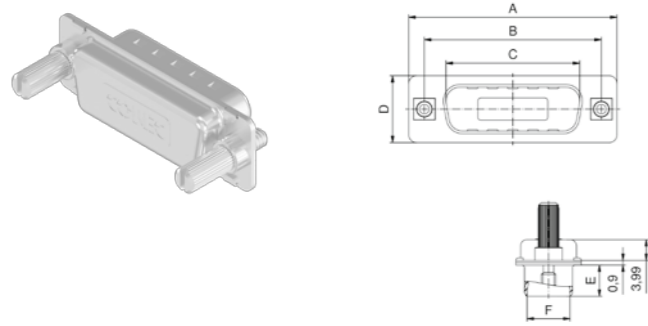
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.46	12.93	8.02	165X16769X
15	39.52	33.3	24.79			165X16779X
25	53.42	47.04	38.5			165X16789X
37	69.7	63.5	54.96			165X16799X
50	67.31	61.1	52.55			15.75

Shielded cap protecting against EMI/RFI
Shell: steel tin plated

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap Metall design, shielded, for socket connector

4-40 UNC jack screws



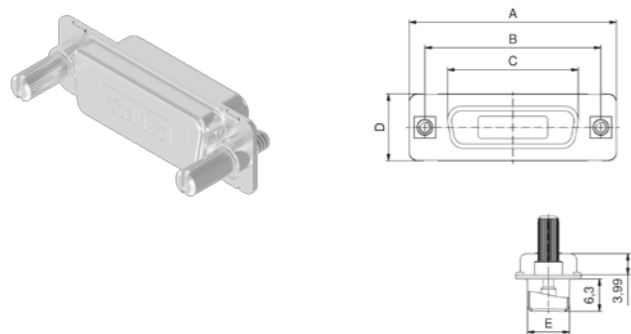
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.	
09	31.19	25	16.79	12.93	6.12	8.23	165X16909X	
15	39.52	33.3	25.12				165X16919X	
25	53.42	47.04	38.84				165X16929X	
37	69.7	63.5	55.3				5.99	165X16939X
50	67.31	61.1	52.68				15.75	10.95

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap Metall design, shielded, for plug connector

4-40 UNC jack screws



No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.93	8.02	165X17009X
15	39.52	33.3	25.12			165X17019X
25	53.42	47.04	38.84			165X17029X
37	69.7	63.5	55.3			165X17039X
50	67.31	61.1	52.68			15.75

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard Metall design, shielded, for socket connector

4-40 UNC screws		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
	09	31.19	25	16.46	12.6	6.12	8.26	16-001050	
	15	39.52	33.3	24.79				16-001060	
	25	53.42	47.04	38.5				16-001070	
	37	69.7	63.5	54.96				16-001080	
	50	67	61.11	52.5				15.38	6.12

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard Metall design, shielded, for plug connector

4-40 UNC screws		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
	09	31.19	25	16.79	12.6	8	16-001150	
	15	39.52	33.3	25.12			16-001160	
	25	53.42	47.04	38.84			16-001170	
	37	69.7	63.5	55.3			16-001180	
	50	67	61.11	52.81			15.38	10.81

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard Metall design, shielded, for socket connector

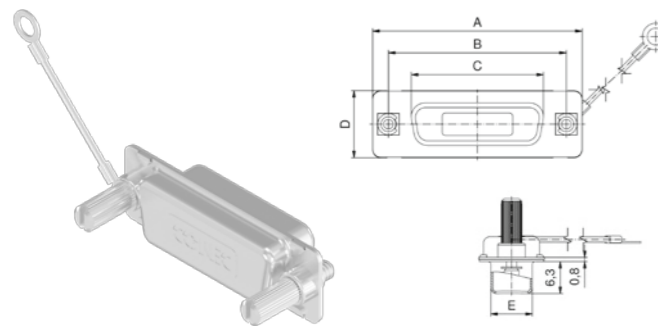
4-40 UNC steel jack screws		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
	09	31.19	25	16.46	12.6	6.12	8.26	16-000840	
	15	39.52	33.3	24.79				16-000850	
	25	53.42	47.04	38.5				16-000860	
	37	69.7	63.5	54.96				16-000870	
	50	67	61.11	52.5				15.38	6.12

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard Metall design, shielded, for plug connector

4-40 UNC steel jack screws



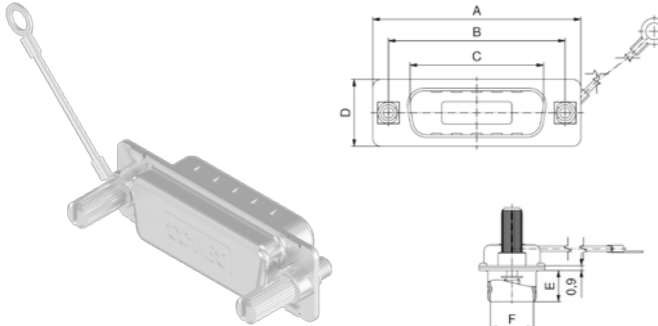
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.6	8	16-000950
15	39.52	33.3	25.12			16-000960
25	53.42	47.04	38.84			16-000970
37	69.7	63.5	55.3			16-000980
50	61.11	52.81	15.38			10.81

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard Metall design, shielded, for socket connector

4-40 UNC stainless steel jack screws



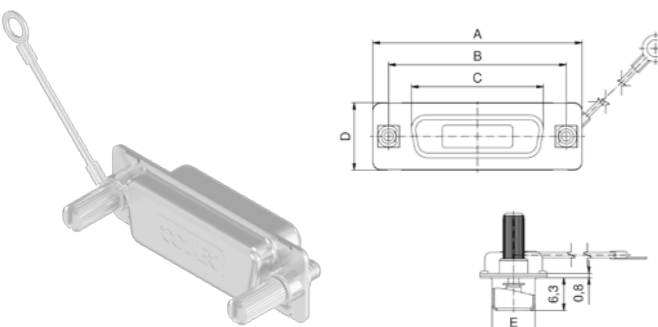
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.	
09	31.19	25	16.46	12.6	6.12	8.26	16-000280	
15	39.52	33.3	24.79				16-000290	
25	53.42	47.04	38.5				16-000300	
37	69.7	63.5	54.96				5.99	16-000310
50	61.11	52.5	15.38				6.12	11.07

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard Metall design, shielded, for plug connector

4-40 UNC stainless steel jack screws




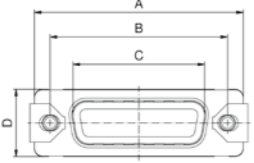
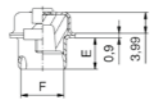
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.6	8	16-000380
15	39.52	33.3	25.12			16-000390
25	53.42	47.04	38.84			16-000400
37	69.7	63.5	55.3			16-000410
50	61.11	52.81	15.38			10.81

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket
Metall design, shielded, for socket connector

4-40 UNC screws and clip


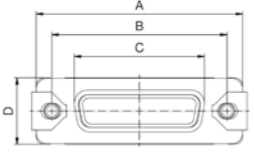
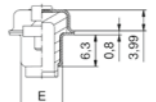
	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
  	09	31.19	25	16.79	12.93	6.12	8.23	165X14719X
	15	39.52	33.3	25.12				165X14729X
	25	53.42	47.04	38.84	165X14739X			
	37	69.7	63.5	55.3	165X14749X			
	50	67.31	61.1	52.68	15.75	5.99	10.95	165X14759X

IP67 Protection cap with gasket
Protection against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket
Metall design, shielded, for plug connector

4-40 UNC screws and clip


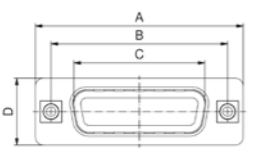
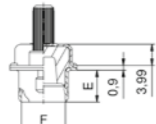
	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
  	09	31.19	25	16.46	12.93	8.02	165X14769X
	15	39.52	33.3	24.79			165X14779X
	25	53.42	47.04	38.5	165X14789X		
	37	69.7	63.5	54.96	165X14799X		
	50	67.31	61.11	52.55	15.75	10.87	165X14809X

IP67 Protection cap with gasket
Protection against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket
Metall design, shielded, for socket connector

4-40 UNC jack screws

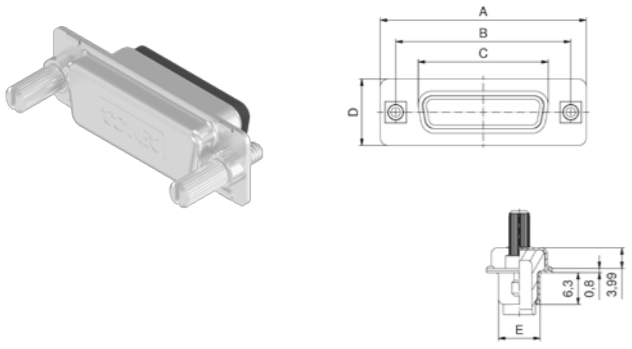
	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
  	09	31.19	25	16.79	12.93	6.12	8.23	165X17109X
	15	39.52	33.3	25.12				165X17119X
	25	53.42	47.04	36.84	165X17129X			
	37	69.7	63.5	55.3	165X17139X			
	50	67.31	61.1	52.68	15.75	5.99	10.95	165X17149X

IP67 Protection cap with gasket
Protection against EMI/RFI
Shell: brass tin plated
Jack screws: stainless steel
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket
Metall design, shielded, for plug connector

4-40 UNC jack screws



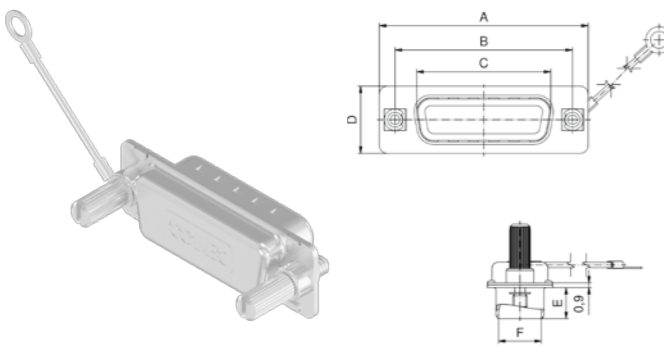
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.46	12.93	8.02	165X17209X
15	39.52	33.3	24.79			165X17219X
25	53.42	47.04	38.5			165X17229X
37	69.7	63.5	54.96			165X17239X
50	67.31	61.1	52.55			15.75

IP67 Protection cap with gasket
Protection against EMI/RFI
Shell: brass tin plated
Jack screws: stainless steel
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket and lanyard
Metall design, shielded, for socket connector

4-40 UNC jack screws stainless steel



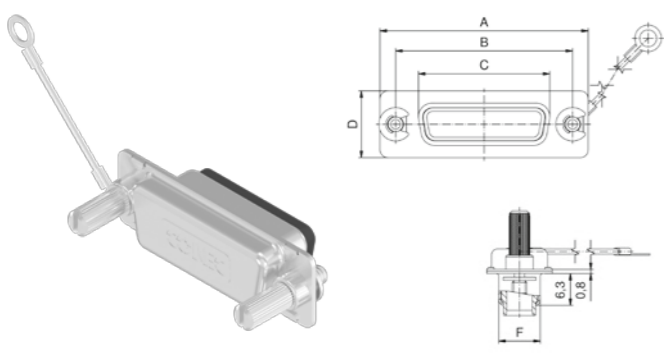
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.46	12.6	6.12	8.26	15-000010
15	39.52	33.3	24.79				15-000020
25	53.42	47.04	38.5				15-000030
37	69.7	63.5	54.96	5.99	15-000040		
50	67	61.11	52.5	15.38	6.12	11.07	15-000050

IP67 Protection cap with gasket
Protection against EMI/RFI
Shell: brass tin plated
Lanyard: stainless steel
Jack screws: stainless steel
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket and lanyard
Metall design, shielded, for plug connector

4-40 UNC jack screws stainless steel




No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.6	8	15-000110
15	39.52	33.3	25.12			15-000120
25	53.42	47.04	38.84			15-000130
37	69.7	63.5	55.3			15-000140
50	67	61.11	52.81	15.38	10.81	15-000150

IP67 Protection cap with gasket
Protection against EMI/RFI
Shell: brass tin plated
Lanyard: stainless steel
Jack screws: stainless steel
On request:
• M3 thread


D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories


Single hex bolts packaging unit 200 pieces

	Length A [mm]	Internal thread	External thread	Part No.
	6.5			740-353770
	8.0			740-331370
	11.0	440 UNC	440 UNC	740-331570
	13.0			740-331870
	14.0			740-331670
	4.0			740-354470
	7.0	M3		740-320570
	8.0			740-342470
	13.0		M3	740-365270
	4.0			740-354370
	7.0	440 UNC		740-320170
	13.0			740-344970

Single hex bolts set packaging unit 100 pieces



	8.0	440 UNC	440 UNC	160X10359X
	14.0			160X10639X
	8.0	M3	M3	160X10529X

Screw locking set packaging unit 100 pieces

	8.0	440 UNC	440 UNC	160X10329X
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D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

		Internal thread	Part No.
Hex bolt nut .228" 5.8 mm			
 	4-40 UNC	160X10379X	
Flat washer			
 		765-329670	
Spring ring			
 		765-329570	
Nut			
 	4-40 UNC	765-329770	
		M3	765-329870

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Set 4-40 UNC Screw locking with clamp

	No. of poles	Material	Measure A [mm]	Part No.
	09-37	steel	13.3	160X10259X
	50		15.9	160X10659X

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Set 4-40 UNC Screw locking with clamp

	No. of poles	Material	Part No.
	09-50	stainless steel	160X00470A

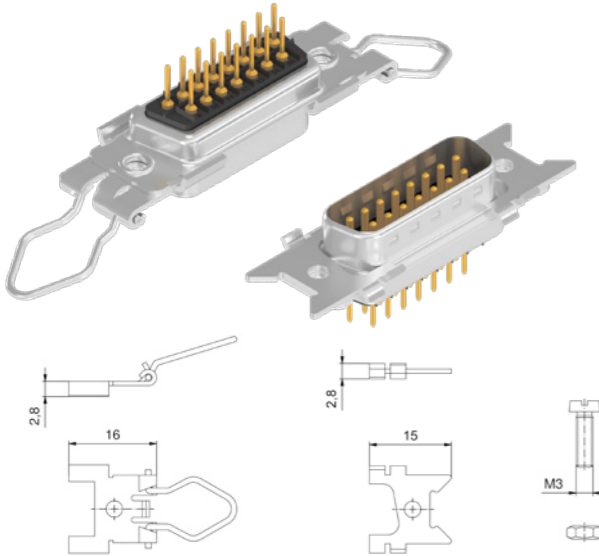
Set 4-40 UNC Screw locking with clamp

	No. of poles	Material	Part No.
	09-50	brass	16-505750

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Set spring locking

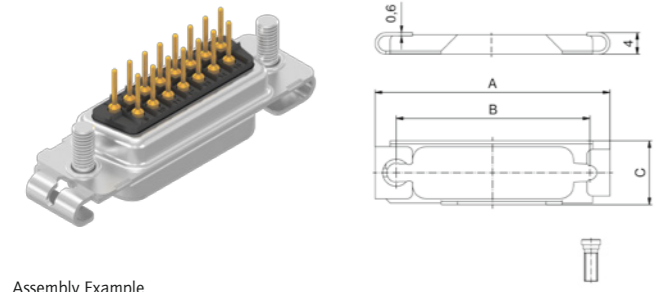
	No. of poles	Material	Part No.
 <p>Assembly Example</p>	09-37	steel	160X10239X

- Set spring locking:
- 2 spring clips
 - 2 wire clamp holders
 - 2 clamps
 - 4 M3 screws
 - 4 M3 nuts

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Set Slide lock Type 3

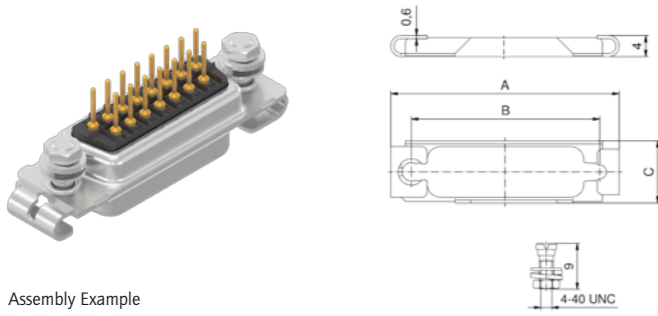
	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Part No.
 <p>Assembly Example</p>	09	35	27.4	12	160X10159X
	15	43.3	35.7	11.5	160X10169X
	25	57	49.4	12	160X10179X
	37	74.4	65.9	12	160X10189X
	50	72	63.5	15	160X10199X

- Slide lock Type 3
(for direct assembly to connector)
- 1 frame
 - 2 self threading screws for plastic and metal

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Set Slide lock Type 4


		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Part No.
 <p>Assembly Example</p>	09	35	27.4	12	160X10689X	
	15	43.3	35.7	11.5	160X10699X	
	25	57	49.4	12	160X10709X	
	37	74.4	65.9	12	160X10719X	
	50	72	63.5	15	160X10729X	

- Slide lock Type 4 (for hood assembly)
- 1 frame
 - 2 4-40 UNC screws
 - 2 flat washers
 - 2 spring rings
 - 2 4-40 UNC nuts

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Set Holding bolt for slide lock type 3 + 4

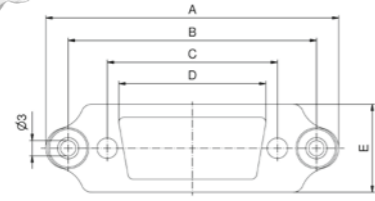
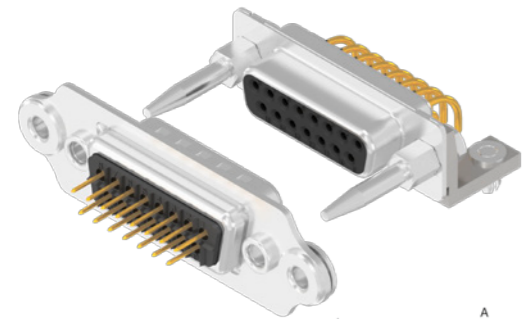
		No. of poles	Part No.
	09-50		160X10209X

- Holding bolt set:
- 2 hex bolts
 - 2 flat washers
 - 2 spring rings
 - 2 nuts

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Blind mating frame



Assembly Example

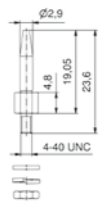
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	49.02	40.28	24.99	20.2	17.2	160X10889X
15	57.35	48.62	33.32	28.8		160X10899X
25	71.25	62.51	47.04	42.5		160X10909X
37	87.53	78.79	63.5	59.1		160X10919X
50	85.14	76.4	61.11	56.3		20.04

Blind mating - Plug-in system:
Material: Steel nickel plated
• Mounting for mating applications consist of frame and float mount
• Frame is factory assembled

D-SUB HOODS AND ACCESSORIES

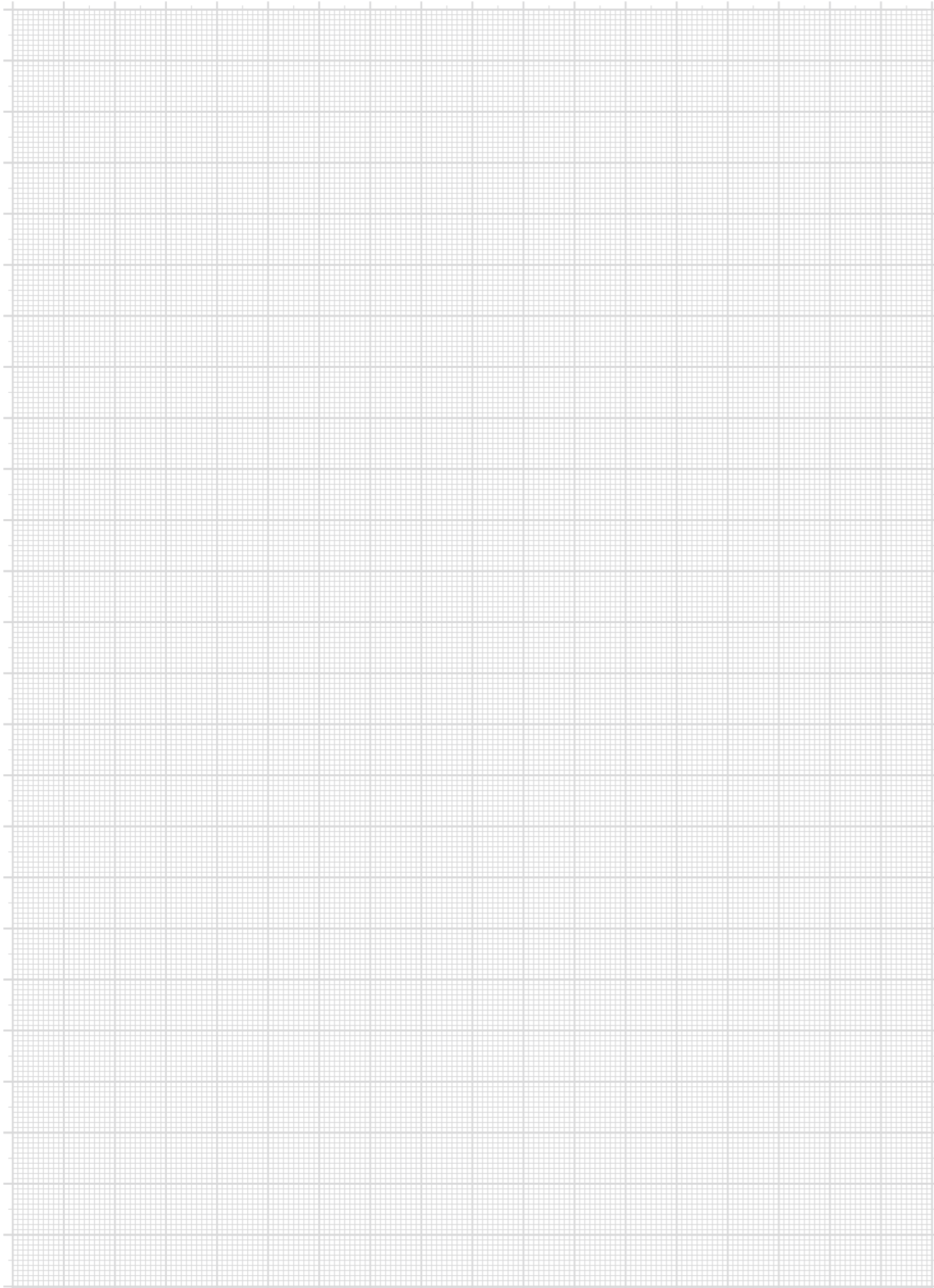
D-SUB Hardware accessories

Blind mating guide posts



No. of poles	Part No.
09-50	160X10949X

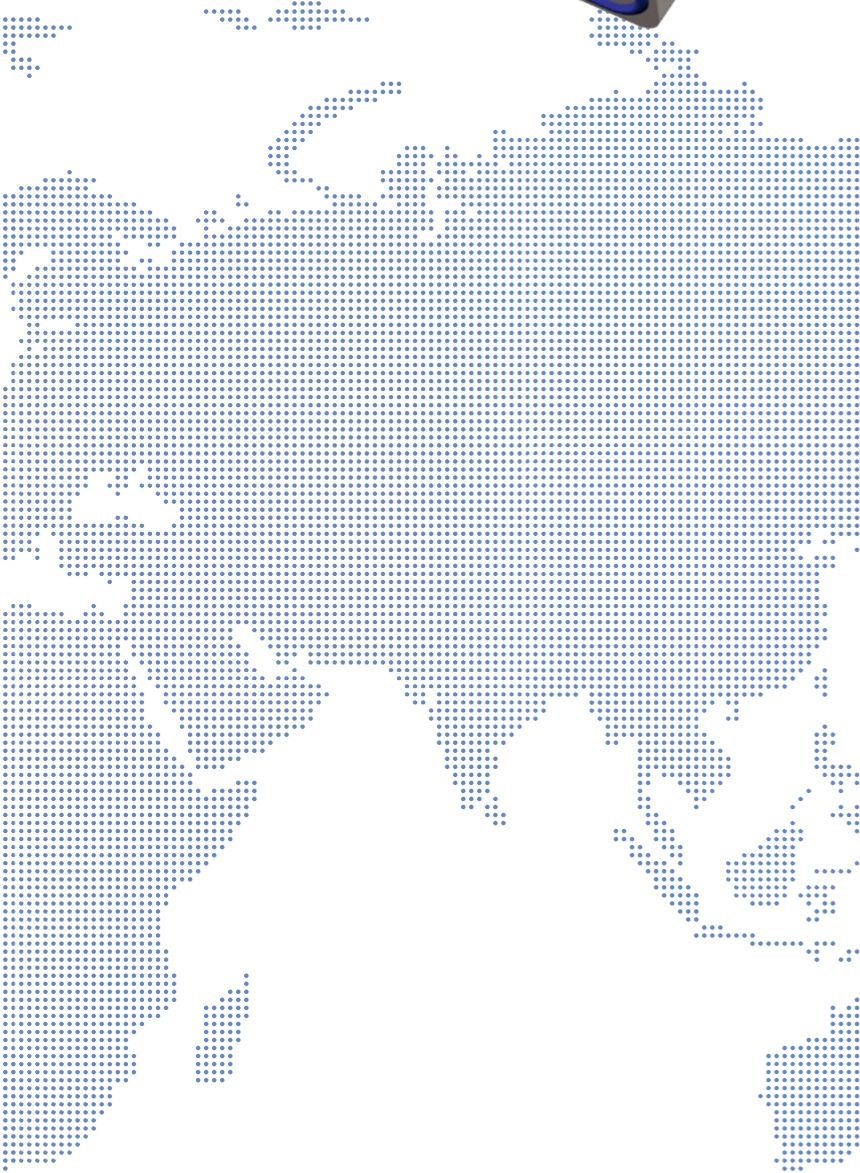
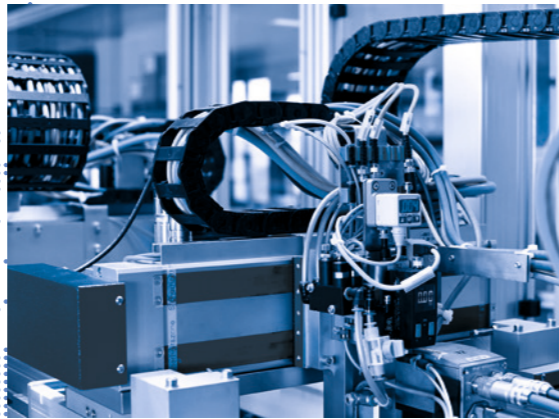
Blind mating - Plug-in system guide pin
Material: Steel nickel plated



SECTION 6

IP67 D-SUB CONNECTORS





IP67 D-SUB CONNECTORS

Part Number Creator

6 S T D 0 9 S A M 9 9 B 3 O X

Product Line
 6 = Shell brass tin plated with die-cast frame
 4 = Shell brass tin plated with plastic frame or without frame
 8* = Shell stainless steel with or without die-cast frame
 8* = Shell stainless steel with plastic frame
 *on request

Variations
 STD = D-SUB-Standard
 HDD = D-SUB-High Density

Position for STD	Position for HDD
09 = 9-pos.	15 = 15-pos.
15 = 15-pos.	26 = 26-pos.
25 = 25-pos.	44 = 44-pos.
37 = 37-pos.	62 = 62-pos.
50 = 50-pos.	78 = 78-pos.

Contact type
 P = Plug connector
 S = Socket connector
 A = Adapter

Quality class for contacts
 A = Quality class 3 = 50 mating cycles
 B = Quality class 2 = 200 mating cycles
 C = Quality class 1 = 500 mating cycles

Termination
 M = Solder cup 10 A
 R = Solder pin, straight
 T = Solder pin, angled, .189"/ 4.80 mm
 U = Solder pin, angled, .189"/ 7.00 mm
 Z = Solder pin, angled, .189"/11.80 mm
 Y = Solder pin, angled, .189"/ 5.60 mm (high density design only)
 A = Adapter

Capacitance
 99 = Without filter for STD and HDD

Mounting style
 A1 = Riveted for wire assembly shell without sealing frame
 B3 = 4-40 UNC threaded insert
 B5 = 4-40 UNC front spacer
 B7 = 4-40 UNC front spacer and rear mounting stud
 B9 = 4-40 UNC front spacer for adapter
 E2 = 4-40 UNC Threaded rear spacer with PCB clip, PCB 1.60 mm
 S2 = Metal bracket, 4-40 UNC threaded insert
 S4 = Metal bracket, 4-40 UNC threaded insert and PCB clip
 R2 = Metal bracket, 4-40 UNC threaded insert
 R4 = Metal bracket, 4-40 UNC threaded insert and PCB clip

OX = Standard

IP67 COMBINATION D-SUB CONNECTORS

Product specification

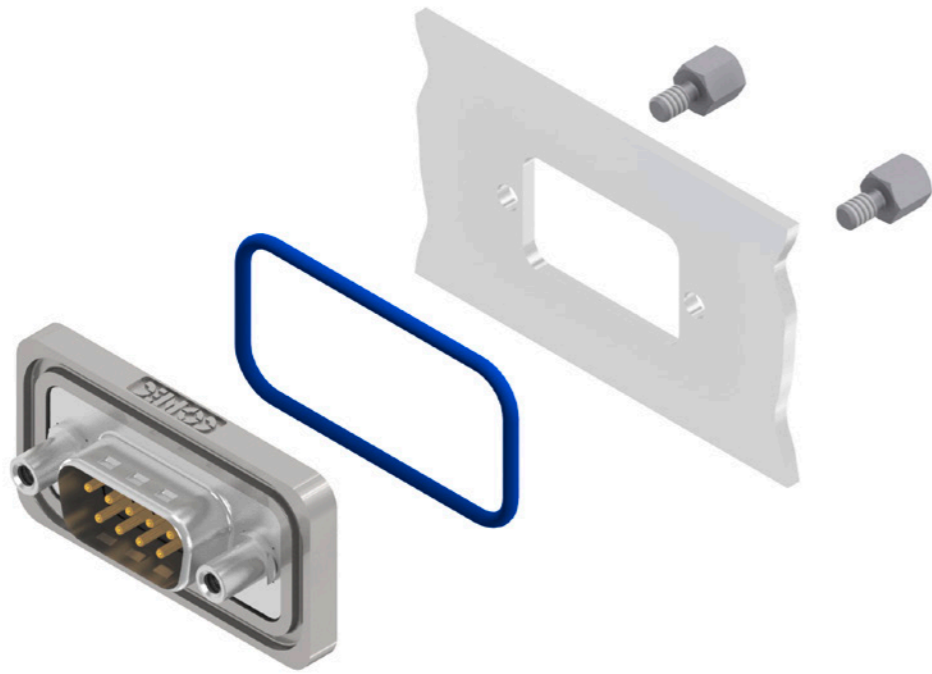
Basic material	D-SUB			D-SUB High Density		
	SlimCon	Solid Body	Standard	SlimCon	Solid Body	Standard
Number of poles	9 - 25 pos.	9 - 50 pos.		15 - 44 pos.	15 - 78 pos.	
Contact	Copper alloy					
Contact plating	Gold over nickel					
Insulator	PBT GF UL 94 V-0					
One-piece shell Zinc die-cast nickel plated	✓	✓		✓	✓	
Shell Brass tin plated (Stainless steel on request)			✓			✓
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			60 V AC/DC		
Current rating	7.5 A (UL) / 5 A (CSA, VDE)			3 A (UL) / 2.5 A (CSA, VDE)		
Contact resistance	max. 10 mΩ prior to stressing ΔR max. 10 mΩ after stressing per IEC 60807-2					
Insulation resistance	≥ 5 GΩ					
Clearance and creepage distance	Contact - Contact ≥ 1.0 mm / 0.04" Contact - earth ≥ 1.2 mm / 0.047"			≥ 0.6 mm / 0.024"		
Operating temperature	-40 °C to +105 °C	-25 °C to +105 °C		-40 °C to +105 °C	-25 °C to +105 °C	
Mounting style Rear panel mounting/ Panel thickness	min. 0.8 mm to 1.3 mm	min. 1 mm to 1.6 mm		min. 0.8 mm to 1.3 mm	min. 1 mm to 1.6 mm	
Mounting style Front panel mounting			✓		✓	
Mating and unmating forces	9 pos. ≤ 30 N 15 pos. ≤ 50 N 25 pos. ≤ 30 N	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	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					
Recommended wavesolder parameters	Preheating		Solder terminal dipping parameters			
	max. temperature	duration (max.)	max. Solder bath temperature		max. terminal immersion time	
IP67 D-SUB CONEC SlimCon and Solid Body	150 °C	180 s	265 °C		8 s	
IP67 D-SUB Standard	120 °C	120 s	240 °C		5 s	

Technical specifications are subject to change without notice.

IP67 D-SUB CONNECTORS

Panel mounting

Front panel mounting



Back panel mounting

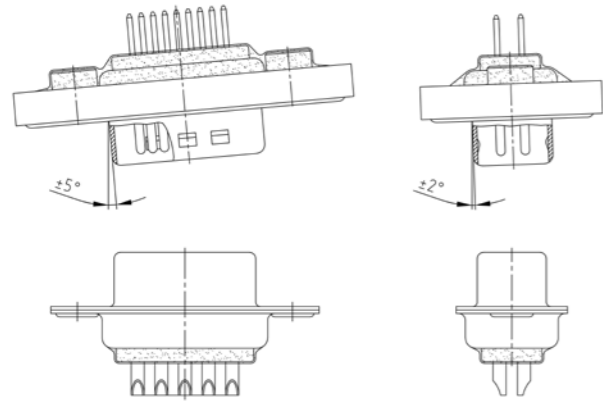


The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (standard & solid body)/.051"/1.3 mm (CONEC SlimCon) such that it does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

IP67 D-SUB CONNECTORS

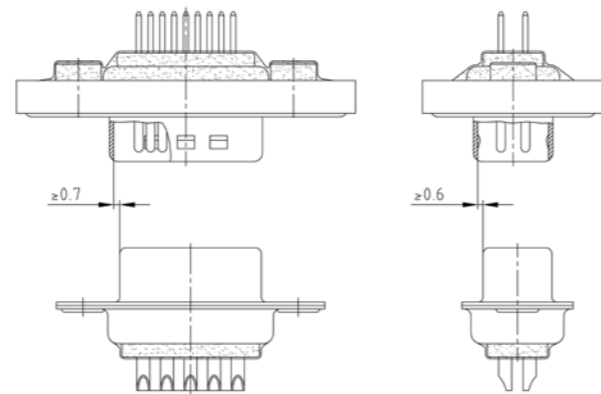
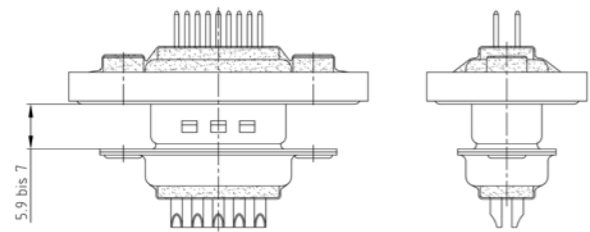
Mating conditions

Max. tilt angle for connector mating



Range for safe contact

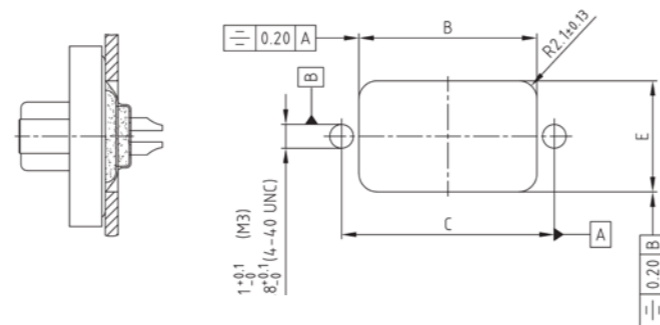
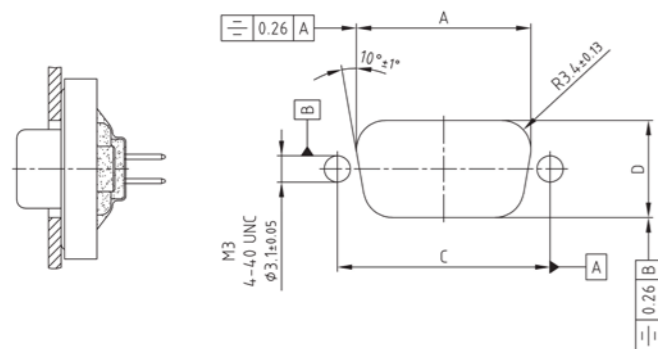
Lock-in range



Panel cut-out

Back panel mounting

Front panel mounting



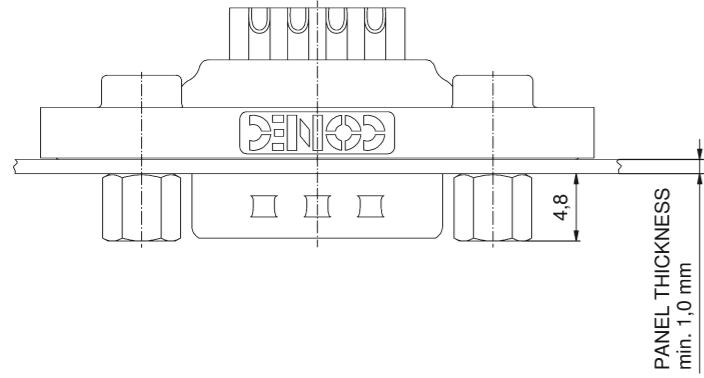
Shell size	A ±0.1	B ±0.1	C ±0.1	D ±0.1	E ±0.1
1	20.50	20.90	25.00	11.40	13.00
2	28.80	29.20	33.30	11.40	13.00
3	42.50	42.90	47.04	11.40	13.00
4	59.10	59.40	63.50	11.40	13.00
5	56.30	57.00	61.10	14.10	15.80

Technical specifications are subject to change without notice.

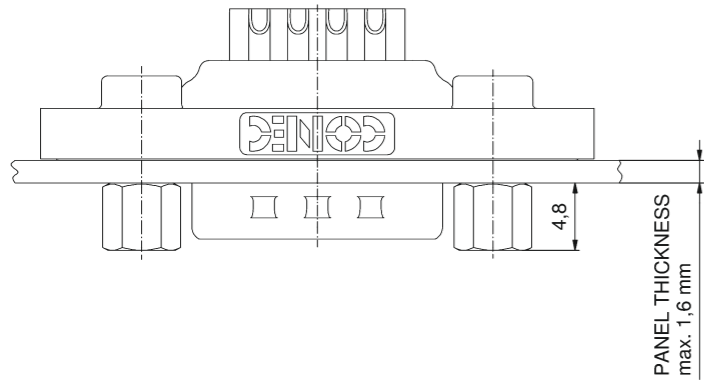
IP67 D-SUB CONNECTORS

Assembly for series Solid Body and Standard Rear Panel Mounting

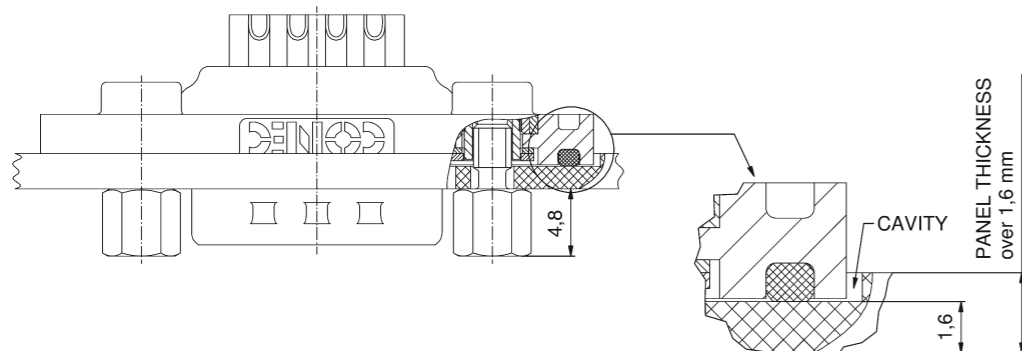
Panel thickness min. 1.0 mm



Panel thickness max. 1.6 mm



Panel thickness over 1.6 mm

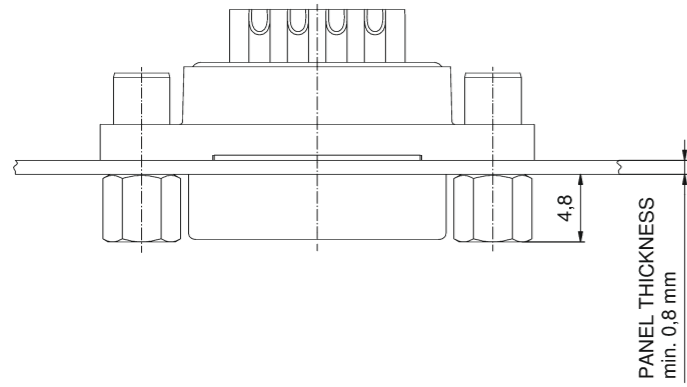


Technical specifications are subject to change without notice.

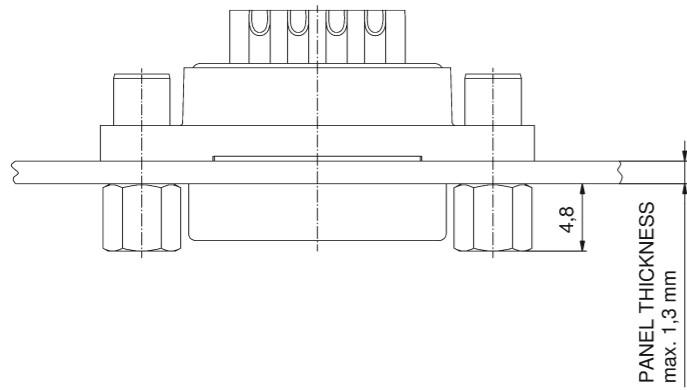
IP67 D-SUB CONNECTORS

Assembly for series CONEC SlimCon Rear Panel Mounting

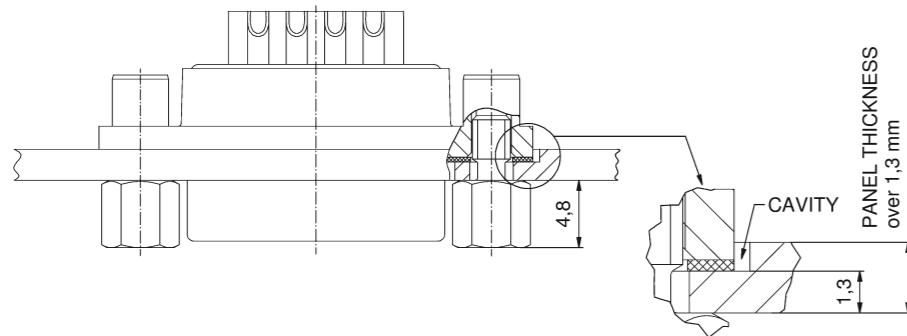
Panel thickness min. 0.8 mm



Panel thickness max. 1.3 mm



Panel thickness over 1.3 mm

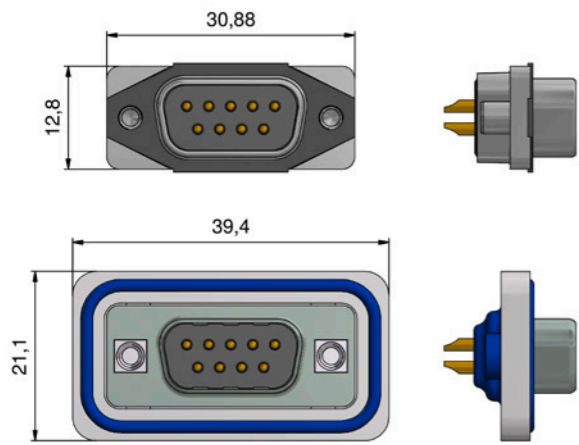


Technical specifications are subject to change without notice.

IP67 D-SUB CONNECTORS

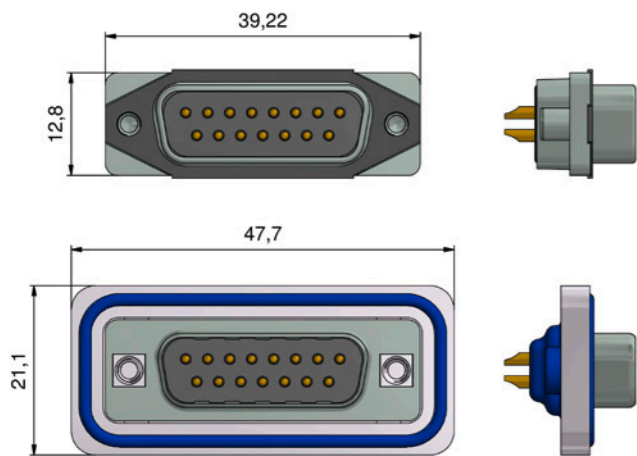
Size comparison Series Standard/Solid Body versus series CONEC SlimCon

Size 1



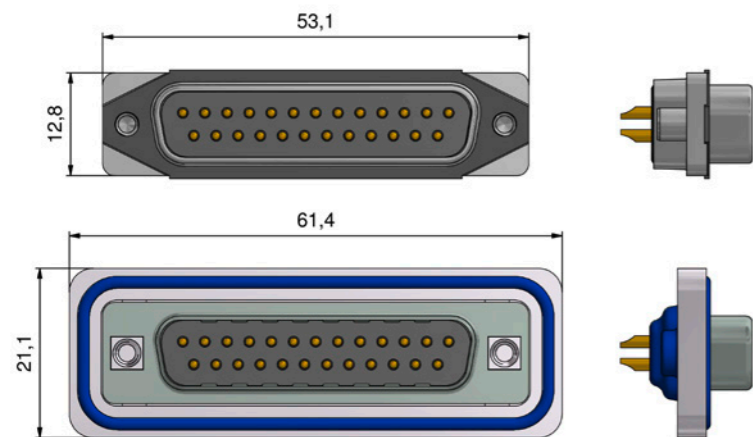
IP67 D-SUB CONEC SlimCon	IP67 D-SUB Standard/Solid Body	Space-saving	Reduction of mounting space
30.88 mm	39.4 mm	8.3 mm / 13.5 %	52 %
12.8 mm	21.1 mm	8.3 mm / 39 %	

Size 2



IP67 D-SUB CONEC SlimCon	IP67 D-SUB Standard/Solid Body	Space-saving	Reduction of mounting space
39.22 mm	47.7 mm	8.3 mm / 13.5 %	50 %
12.8 mm	21.1 mm	8.3 mm / 39 %	

Size 3



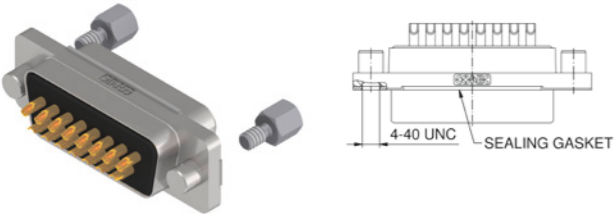
IP67 D-SUB CONEC SlimCon	IP67 D-SUB Standard/Solid Body	Space-saving	Reduction of mounting space
53.1 mm	61.4 mm	8.3 mm / 13.5 %	48 %
12.8 mm	21.1 mm	8.3 mm / 39 %	

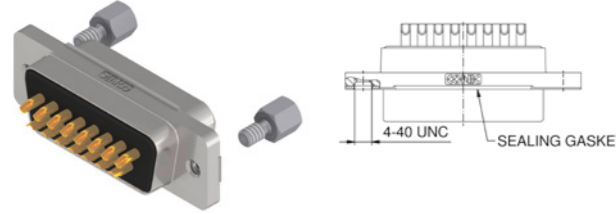
Technical specifications are subject to change without notice.

IP67 D-SUB CONNECTORS
CONEC SlimCon

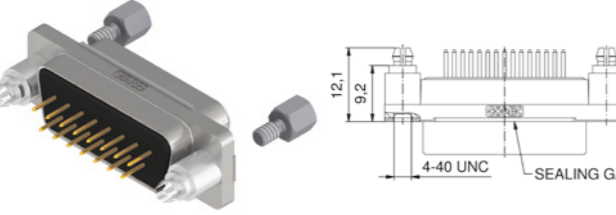
Solder cup
 Precision machined contacts, AWG 20

One-piece shell: zinc die-cast nickel plated
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles

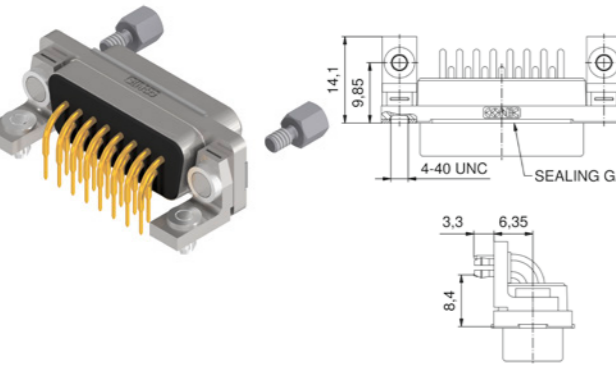
4-40 UNC threaded insert		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-006293	15-006243	
	15				15-006303	15-006253	
	25				15-006313	15-006263	

4-40 UNC threaded insert (for cable assembly and overmould)		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-006393	15-006343	
	15				15-006403	15-006353	
	25				15-006413	15-006363	

Solder pin, straight
 Precision machined contacts

4-40 UNC threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-006493	15-006443	
	15				15-006503	15-006453	
	25				15-006513	15-006463	

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

Clip for PCB 1.6 mm, 4-40 UNC threaded insert		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-006593	15-006543	
	15				15-006603	15-006553	
	25				15-006613	15-006563	

IP67 D-SUB HIGH DENSITY CONNECTORS
CONEC SlimCon

Solder cup
 Precision machined contacts, AWG 22

4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007853	15-007823	
	26				15-007863	15-007833	
	44				15-007873	15-007843	

One-piece shell: zinc die-cast nickel plated
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles

4-40 UNC threaded insert (for cable assembly and overmould)

	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007673	15-007703
	26				15-007683	15-007713
	44				15-007693	15-007723

Solder pin, straight
 Precision machined contacts

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

		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007553	15-007583	
	26				15-007563	15-007593	
	44				15-007573	15-007603	

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

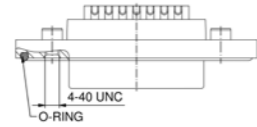
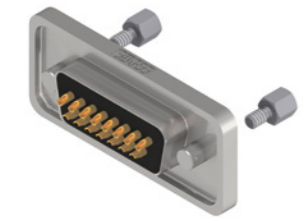
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007613	15-007643	
	26				15-007623	15-007653	
	44				15-007633	15-007663	

IP67 D-SUB CONNECTORS
Standard Solid Body

Solder cup
Precision machined contacts, AWG 20

4-40 UNC threaded insert

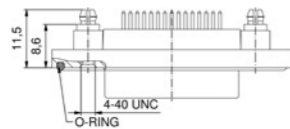


No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-000613	15-000573
15				15-000623	15-000583
25				15-000633	15-000593
37				15-000643	15-000603
50				15-002103	15-002093

One-piece shell: zinc die-cast nickel plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

Solder pin, straight
Precision machined contacts

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



No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-000453	15-000413
15				15-000463	15-000423
25				15-000473	15-000433
37				15-000483	15-000443
50				15-002063	15-002053

IP67 D-SUB CONNECTORS
Standard Solid Body

Solder pin, angled, .402" / 10.2 mm
Precision machined contacts, metal bracket

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

		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	75 (UL) / 5 (CSA VDE)	125	3	15-000773	15-000733	
	15				15-000783	15-000743	
	25				15-000793	15-000753	
	37				15-000803	15-000763	
	50				15-002143	15-002133	

One-piece shell: zinc die-cast nickel plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

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

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

		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	75 (UL) / 5 (CSA VDE)	125	3	15-000853	15-000813	
	15				15-000863	15-000823	
	25				15-000873	15-000833	
	37				15-000883	15-000843	
	50				15-002163	15-002153	

IP67 D-SUB CONNECTORS
High Density Solid Body

Solder cup
Precision machined contacts, AWG 22

4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-000693	15-000653	
	26				15-000703	15-000663	
	44				15-000713	15-000673	
	62				15-000723	15-000683	
	78				15-002123	15-002113	

One-piece shell: zinc die-cast nickel plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

IP67 D-SUB CONNECTORS
High Density Solid Body

Solder pin, straight
Precision machined contacts

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

		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL VDE) / 2.5 (CSA)	60	3	15-000533	15-000493	
	26				15-000543	15-000503	
	44				15-000553	15-000513	
	62				15-000563	15-000523	
	78				15-002183	15-002073	

One-piece shell: zinc die-cast nickel plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

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

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

		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL VDE) / 2.5 (CSA)	60	3	15-002243	15-002193	
	26				15-002253	15-002203	
	44				15-002263	15-002213	
	62				15-002273	15-002223	
	78				15-002283	15-002233	

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

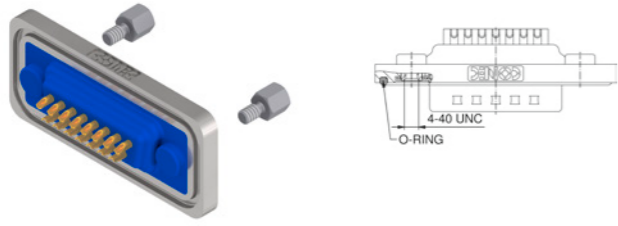
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL VDE) / 2.5 (CSA)	60	3	15-000933	15-000893	
	26				15-000943	15-000903	
	44				15-000953	15-000913	
	62				15-000963	15-000923	

IP67 D-SUB CONNECTORS
Standard

Solder cup
Precision machined contacts, AWG 20

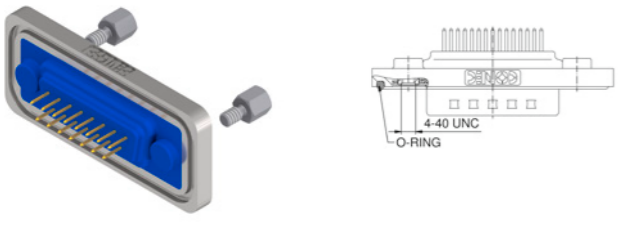
4-40 UNC threaded insert

	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAM99B30X	6STD09PAM99B30X
	15					6STD15SAM99B30X	6STD15PAM99B30X
	25					6STD25SAM99B30X	6STD25PAM99B30X
	37					6STD37SAM99B30X	6STD37PAM99B30X
	50					6STD50SAM99B30X	6STD50PAM99B30X

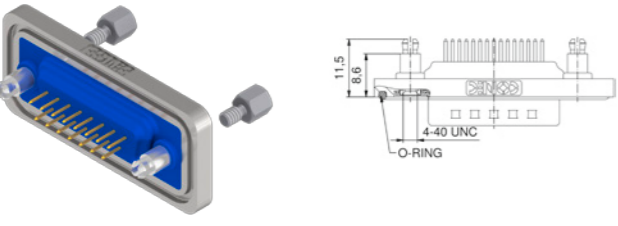
Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

Solder pin, straight
Precision machined contacts

4-40 UNC threaded insert

	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAR99B30X	6STD09PAR99B30X
	15					6STD15SAR99B30X	6STD15PAR99B30X
	25					6STD25SAR99B30X	6STD25PAR99B30X
	37					6STD37SAR99B30X	6STD37PAR99B30X
	50					6STD50SAR99B30X	6STD50PAR99B30X

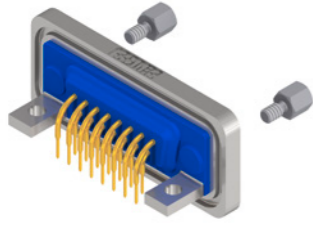
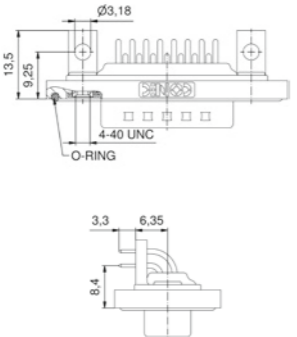
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

	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	6STD09SAR99E20X	6STD09PAR99E20X
	15					6STD15SAR99E20X	6STD15PAR99E20X
	25					6STD25SAR99E20X	6STD25PAR99E20X
	37					6STD37SAR99E20X	6STD37PAR99E20X
	50					6STD50SAR99E20X	6STD50PAR99E20X

IP67 D-SUB CONNECTORS
Standard

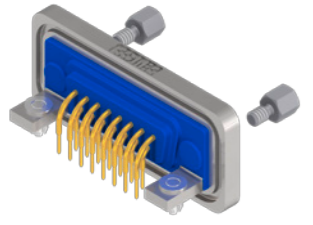
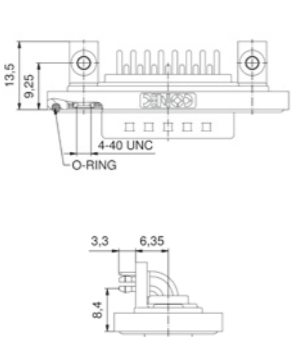
Solder pin, angled, .331"/8.4 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert

 		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
		09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAT99S20X	6STD09PAT99S20X
15	6STD15SAT99S20X	6STD15PAT99S20X						
25	6STD25SAT99S20X	6STD25PAT99S20X						
37	6STD37SAT99S20X	6STD37PAT99S20X						
50	6STD50SAT99S20X	6STD50PAT99S20X						

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

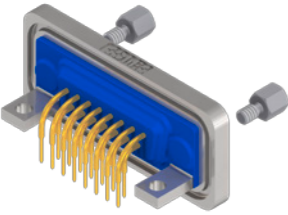
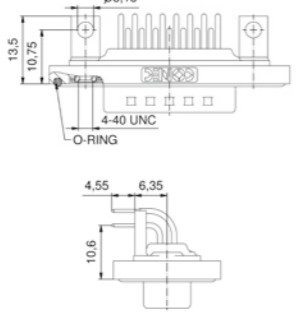
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

 		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
		09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAT99S40X	6STD09PAT99S40X
15	6STD15SAT99S40X	6STD15PAT99S40X						
25	6STD25SAT99S40X	6STD25PAT99S40X						
37	6STD37SAT99S40X	6STD37PAT99S40X						
50	6STD50SAT99S40X	6STD50PAT99S40X						

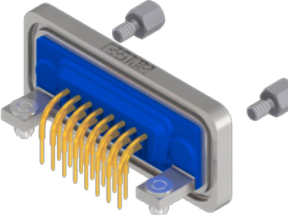
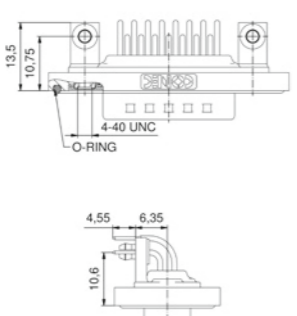
IP67 D-SUB CONNECTORS
Standard

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

4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	09	75 (UI) / 5 (CSA VDE)	125	E202784	3	6STD09SAU99R20X	6STD09PAU99R20X	
	15					6STD15SAU99R20X	6STD15PAU99R20X	
	25					6STD25SAU99R20X	6STD25PAU99R20X	
	37					6STD37SAU99R20X	6STD37PAU99R20X	
	50					6STD50SAU99R20X	6STD50PAU99R20X	

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

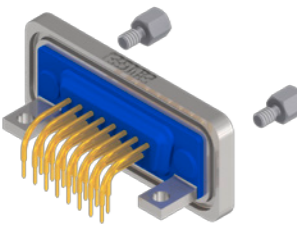
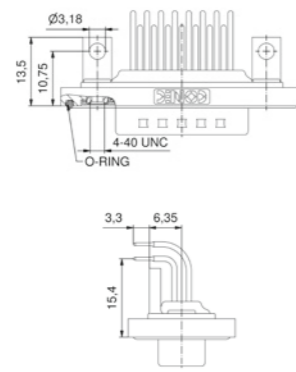
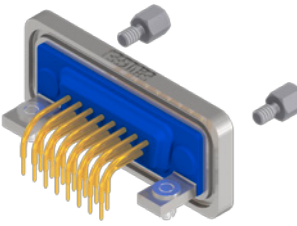
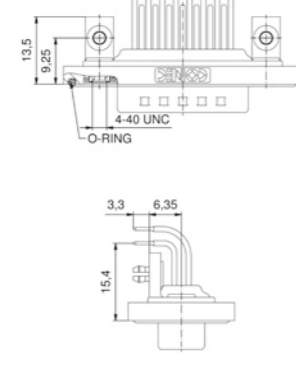
 	09	75 (UI) / 5 (CSA VDE)	125	E202784	3	6STD09SAU99R40X	6STD09PAU99R40X
	15					6STD15SAU99R40X	6STD15PAU99R40X
	25					6STD25SAU99R40X	6STD25PAU99R40X
	37					6STD37SAU99R40X	6STD37PAU99R40X
	50					6STD50SAU99R40X	6STD50PAU99R40X

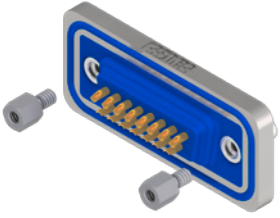
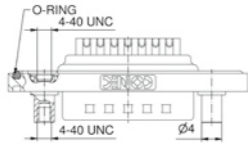
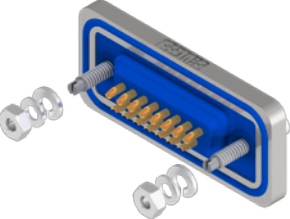
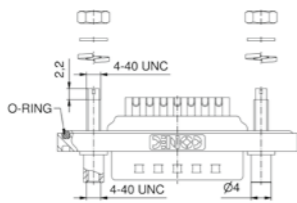
Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

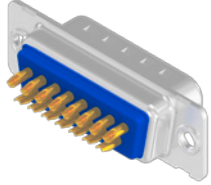
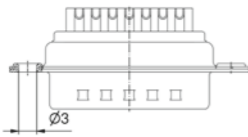
IP67 D-SUB CONNECTORS
Standard

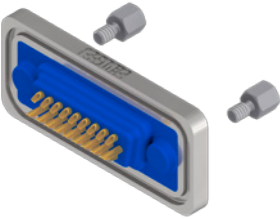
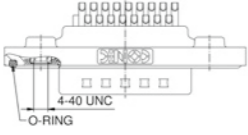
Solder pin, angled, .606" / 15.4 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	09	75 (UI) / 5 (CSA VDE)	125	E202784	3	6STD09SAZ99S20X	6STD09PAZ99S20X	
	15					6STD15SAZ99S20X	6STD15PAZ99S20X	
	25					6STD25SAZ99S20X	6STD25PAZ99S20X	
	37					6STD37SAZ99S20X	6STD37PAZ99S20X	
Clip for PCB 1.6 mm, 4-40 UNC threaded insert								
 	09	75 (UI) / 5 (CSA VDE)	125	E202784	3	6STD09SAZ99S40X	6STD09PAZ99S40X	
	15					6STD15SAZ99S40X	6STD15PAZ99S40X	
	25					6STD25SAZ99S40X	6STD25PAZ99S40X	
	37					6STD37SAZ99S40X	6STD37PAZ99S40X	

IP67 D-SUB CONNECTORS Standard		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Shell: Brass tin plated Quality class 3 (A) = 50 mating cycles On request: • Stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread	
Solder cup, precision machined contacts Front panel mounting, AWG 20							Part No. Socket contact	Part No. Plug contact
4-40 UNC Front spacer								
 	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAM99B50X	6STD09PAM99B50X	
	15					6STD15SAM99B50X	6STD15PAM99B50X	
	25					6STD25SAM99B50X	6STD25PAM99B50X	
	37					6STD37SAM99B50X	6STD37PAM99B50X	
	50					6STD50SAM99B50X	6STD50PAM99B50X	
4-40 UNC Front spacer and rear mounting stud								
 	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAM99B70X	6STD09PAM99B70X	
	15					6STD15SAM99B70X	6STD15PAM99B70X	
	25					6STD25SAM99B70X	6STD25PAM99B70X	
	37					6STD37SAM99B70X	6STD37PAM99B70X	
	50					6STD50SAM99B70X	6STD50PAM99B70X	

IP67 D-SUB CONNECTORS Standard		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Shell: Brass tin plated Quality class 3 (A) = 50 mating cycles On request: • Stainless steel • Quality class 1 (C) = 500 mating cycles	
Solder cup, precision machined contacts Hood Assembly, AWG 20							Part No. Socket contact	Part No. Plug contact
Through-hole Ø 3 mm								
 	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	4STD09SAM99A10X	4STD09PAM99A10X	
	15					4STD15SAM99A10X	4STD15PAM99A10X	
	25					4STD25SAM99A10X	4STD25PAM99A10X	
	37					4STD37SAM99A10X	4STD37PAM99A10X	
	50					4STD50SAM99A10X	4STD50PAM99A10X	

IP67 D-SUB CONNECTORS High Density		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Shell: Brass tin plated Quality class 3 (A) = 50 mating cycles On request: • Stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread	
Solder cup Precision machined contacts, AWG 22							Part No. Socket contact	Part No. Plug contact
4-40 UNC threaded insert								
 	15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAM99B30X	6HDD15PAM99B30X	
	26					6HDD26SAM99B30X	6HDD26PAM99B30X	
	44					6HDD44SAM99B30X	6HDD44PAM99B30X	
	62					6HDD62SAM99B30X	6HDD62PAM99B30X	
	78					6HDD78SAM99B30X	6HDD78PAM99B30X	

IP67 D-SUB CONNECTORS
High Density

Solder pin, straight
Precision machined contacts

4-40 UNC threaded insert

	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAR99B30X	6HDD15PAR99B30X
	26					6HDD26SAR99B30X	6HDD26PAR99B30X
	44					6HDD44SAR99B30X	6HDD44PAR99B30X
	62					6HDD62SAR99B30X	6HDD62PAR99B30X
	78					6HDD78SAR99B30X	6HDD78PAR99B30X

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• 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]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAR99E20X	6HDD15PAR99E20X
	26					6HDD26SAR99E20X	6HDD26PAR99E20X
	44					6HDD44SAR99E20X	6HDD44PAR99E20X
	62					6HDD62SAR99E20X	6HDD62PAR99E20X
	78					6HDD78SAR99E20X	6HDD78PAR99E20X

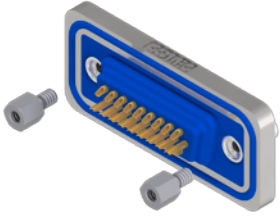
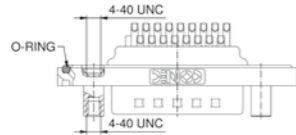
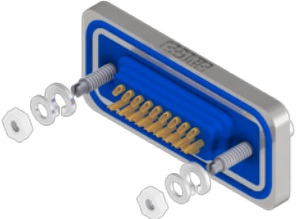
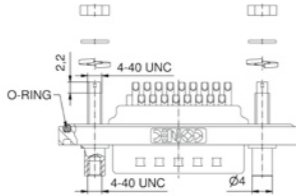
Solder pin, angled, .362" / 9.2 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert

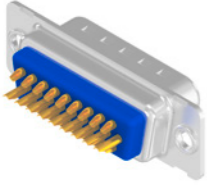
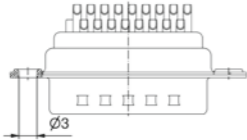
	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAY99R20X	6HDD15PAY99R20X
	26					6HDD26SAY99R20X	6HDD26PAY99R20X
	44					6HDD44SAY99R20X	6HDD44PAY99R20X
	62					6HDD62SAY99R20X	6HDD62PAY99R20X
	78					6HDD78SAY99R20X	6HDD78PAY99R20X

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


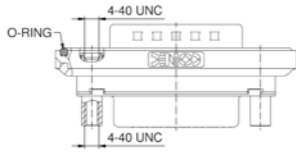
	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAY99R40X	6HDD15PAY99R40X
	26					6HDD26SAY99R40X	6HDD26PAY99R40X
	44					6HDD44SAY99R40X	6HDD44PAY99R40X
	62					6HDD62SAY99R40X	6HDD62PAY99R40X
	78					6HDD78SAY99R40X	6HDD78PAY99R40X

IP67 D-SUB CONNECTORS High Density		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact		Part No. Plug contact	
Solder cup, precision machined contacts Front panel mounting, AWG 22										
4-40 UNC front spacer										
 	15	3 (UL, VDE) / 2,5 (CSA)	60	E202784	3	6HDD15SAM99B50X	6HDD15PAM99B50X			
	26					6HDD26SAM99B50X	6HDD26PAM99B50X			
	44					6HDD44SAM99B50X	6HDD44PAM99B50X			
	62					6HDD62SAM99B50X	6HDD62PAM99B50X			
	78					6HDD78SAM99B50X	6HDD78PAM99B50X			
4-40 UNC Front spacer and rear mounting stud										
 	15	3 (UL, VDE) / 2,5 (CSA)	60	E202784	3	6HDD15SAM99B70X	6HDD15PAM99B70X			
	26					6HDD26SAM99B70X	6HDD26PAM99B70X			
	44					6HDD44SAM99B70X	6HDD44PAM99B70X			
	62					6HDD62SAM99B70X	6HDD62PAM99B70X			
	78					6HDD78SAM99B70X	6HDD78PAM99B70X			

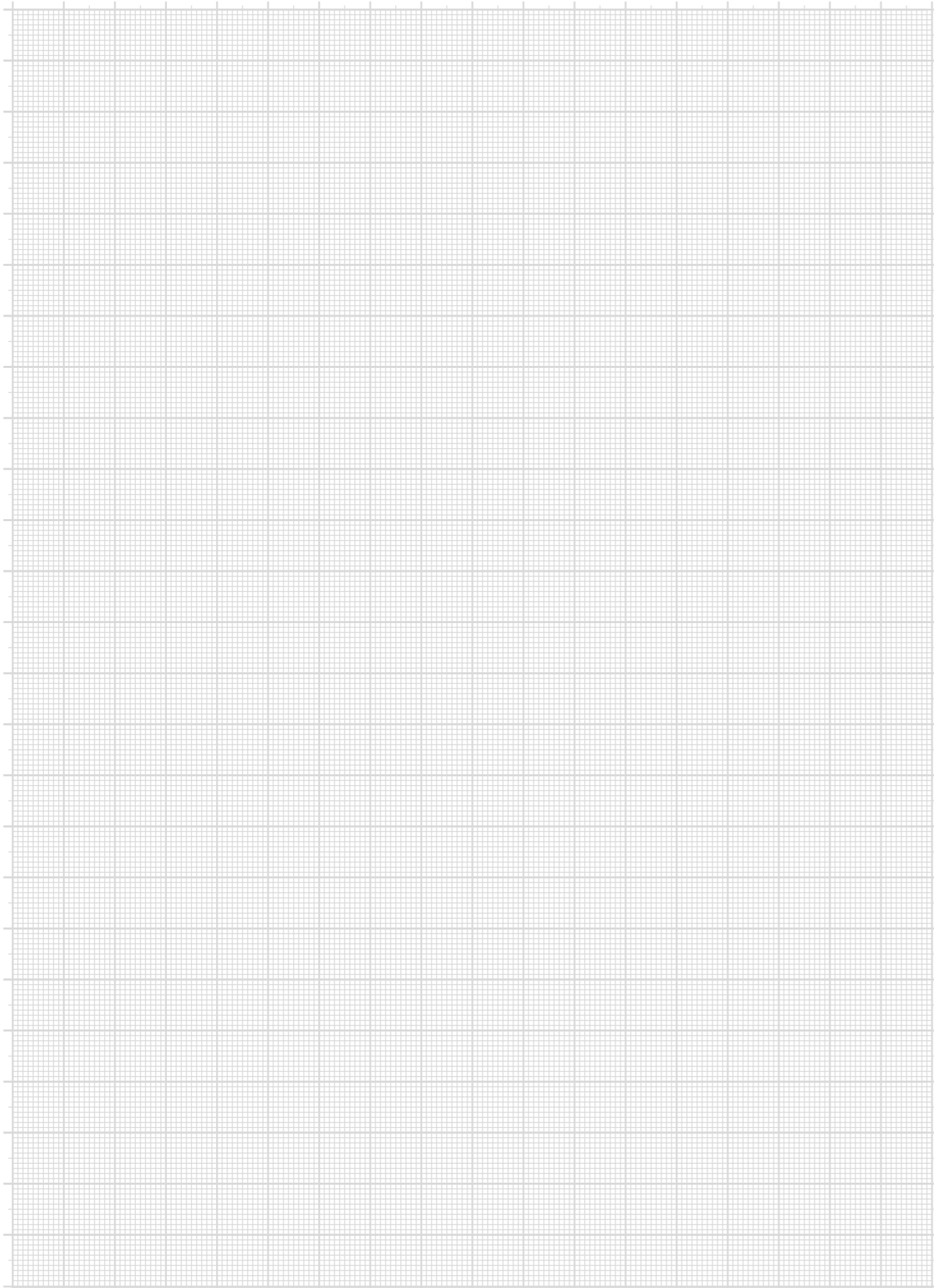
Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

IP67 D-SUB CONNECTORS High Density		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact		Part No. Plug contact	
Solder cup, precision machined contacts Hood Assembly, AWG 22										
Through-hole Ø 3 mm										
 	15	3 (UL, VDE) / 2,5 (CSA)	60	E202784	3	4HDD15SAM99A10X	4HDD15PAM99A10X			
	26					4HDD26SAM99A10X	4HDD26PAM99A10X			
	44					4HDD44SAM99A10X	4HDD44PAM99A10X			
	62					4HDD62SAM99A10X	4HDD62PAM99A10X			
	78					4HDD78SAM99A10X	4HDD78PAM99A10X			

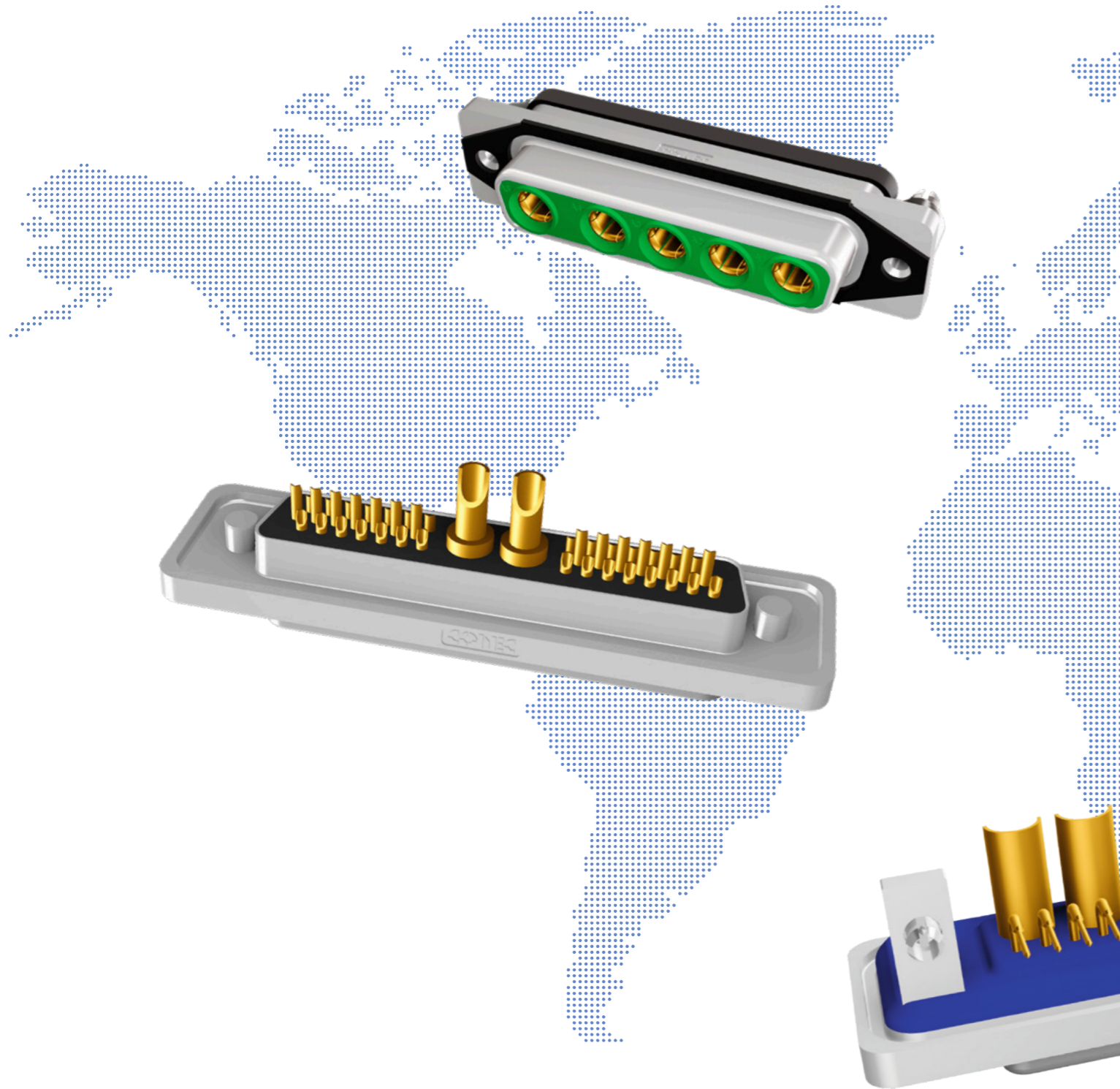
Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles

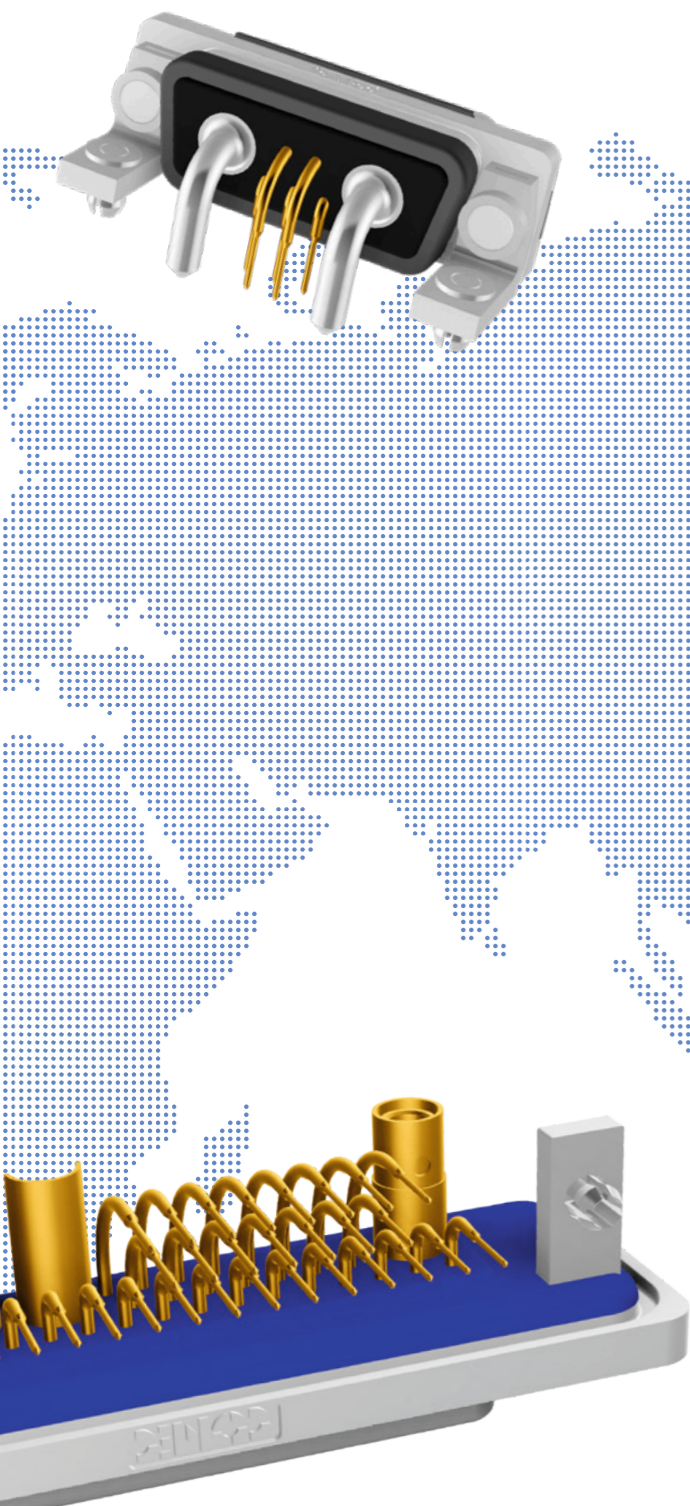
IP67 D-SUB CONNECTORS Standard		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	
Interface adapter, connector saver Plug connector - socket connector								
4-40 UNC threaded rear spacer								
 	09	7,5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09AAA99B90X		
	15					6STD15AAA99B90X		
	25					6STD25AAA99B90X		
	37					6STD37AAA99B90X		

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



IP67 COMBINATION D-SUB CONNECTORS





IP67 COMBINATION D-SUB CONNECTORS

Part Number Creator

6 0 0 7 W 2 S A M 6 2 B 3 O X

Product Line
 6 = Shell: Brass tin plated with die-cast frame
 4* = Shell: Brass tin plated with or without plastic frame
 8* = Shell: Stainless steel with or without die-cast frame
 9* = Shell: Stainless steel with plastic frame
 * on request

Variations
 Shellsize 1 = 5W1, 2W2C
 Shellsize 2 = 3W3, 7W2, 11W1, 3W3C
 Shellsize 3 = 5W5, 9W4, 13W3, 17W2, 21W1
 Shellsize 4 = 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2
 Shellsize 5 = 24W7, 36W4, 43W2, 47W1
 Empty positions ADD „0“ for example 007W2

Contact type
 P = Plug connector
 S = Socket connector

Plating code/Quality class for signal contacts
 A = Quality class 3 = 50 mating cycles
 B = Quality class 2 = 200 mating cycles
 C = Quality class 1 = 500 mating cycles
 X = without signal contact

Termination applies to signal contacts only
 M = Solder cup
 R = Solder pin – Straight
 T = Solder pin – Angled, .189" / 4.80 mm
 U = Solder pin – Angled, .276" / 7.00 mm
 Z = Solder pin – Angled, .465" / 11.80 mm X = 3W3, 5W5, 8W8, 2W2C, 3W3C

Termination for high power or coaxial contacts		
Quality class 3 / Quality class 1	Quality class 3 / Quality class 1	Quality class 3 / Quality class 1
61 / 41 = Solder cup 10 A	85 / 65 = Solder pin – Angled 30 A	G9 / 78 = 3 solder pins angled 50 Ω
62 / 42 = Solder cup 20 A	81 / 66 = Solder pin – Angled 20 A	H1 / 79 = 3 solder pins angled 50 Ω
68 / 48 = Solder pin – Straight 20 A, D= .077" 1.95 mm	82 / 67 = Solder pin – Angled 30 A	H2 / 88 = 3 solder pins angled 75 Ω
69 / 49 = Solder pin – Straight 20 A, D= .102" 2.60 mm	F9 / H4 = Cable connection straight 75 Ω	H3 / 89 = 3 solder pins angled 75 Ω
70 / 50 = Solder pin – Straight 20 A, D= .112" 2.85 mm	G1 / H5 = Cable connection straight 75 Ω	R1 = Screw Crimp 10 A
71 / 51 = Solder pin – Straight 30 A, D= .125" 3.18 mm	G2 / H6 = Cable connection straight 50 Ω	R2 = Screw Crimp 20A
72 / 52 = Solder pin – Straight 40 A, D= .148" 3.75 mm	G3 / H7 = Cable connection straight 50 Ω	R3 = Screw Crimp 30A
59 / 55 = Solder pin – Angled 15 A	G4 / H8 = Cable connection straight 50 Ω	R4 = Screw Crimp 40A
73 / 56 = Solder pin – Angled 20 A	G5 / H9 = Cable connection straight 50 Ω	
74 / 57 = Solder pin – Angled 30 A	G6 / K1 = Cable connection straight 50 Ω	
75 / 58 = Solder pin – Angled 40 A	G7 / 76 = 3 solder pins straight 50 Ω	
77 / 60 = Solder pin – Angled 40 A	G8 / 86 = 3 solder pins straight 75 Ω	

Mounting style
 A1 = Riveted through hole for hood assembly
 B3 = 4-40 UNC threaded insert
 B5 = 4-40 UNC front spacer
 E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" 1.60 mm
 S2 = Metal bracket, 4-40 UNC threaded insert
 S4 = Metal bracket, 4-40 UNC threaded insert and PCB clip
 R2 = Metal bracket, 4-40 UNC threaded insert
 R4 = Metal bracket, 4-40 UNC threaded insert PCB clip

OX = Standard

IP67 COMBINATION D-SUB CONNECTORS

Product specification Standard

Basic material	Signal contacts	Connectors with Coaxial contacts	High power contacts	
Contact	Copper alloy			
Contact plating	Flash gold over nickel			
Insulator (Connector)	PBT GF UL 94 V-0 (Connectors)			
Insulator (Contacts)	PTFE/PBTP/PI (Contacts)			
Shell	Brass tin plated (Stainless steel on request)			
Retaining clip	Copper alloy			
Technical Data				
Test voltage	1000 V, 50 Hz, 1 min.	750 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.	
Working voltage	250 V AC/DC depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1			
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	2 A	10 - 40 A (UL)	
Resistance between mated contacts	max. 10 mΩ	max. 2.7 mΩ	max. 1 mΩ	
Insulation resistance	≥ 5 GΩ	≥ 1 GΩ	≥ 5 GΩ	
Characteristic impedance		50/75 Ω		
Frequency range		0-2 GHz		
VSWR-value according MIL-C-39012		≤ 1.2 @ 1.2 GHz ≤ 1.3 @ 1.5 GHz ≤ 1.5 @ 2.0 GHz		
Operating temperature	- 25 °C to + 105 °C			
Mounting style Front or rear panel mounting Panel thickness	min. 1 mm to 1.6 mm			
Insertion force per contact	3.4 N	7 N	7 N	
Extraction force per contact	0.2 N	7 N	approx. 5 N	
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles			
Recommended wave-solder parameters	Preheating		Solder terminal dipping parameters	
	Temperature	duration	max. Solder bath temperature	max. terminal immersion time
IP67 Combination D-SUB Standard	120 °C	120 s	240 °C	5 s

Technical specifications are subject to change without notice

IP67 COMBINATION D-SUB CONNECTORS

Product specification Solid Body

Basic material	Solid Body Connectors with			
	D-SUB signal contacts	HD-SUB signal contacts	Coaxial contacts	High power contacts
Contact	Copper alloy			
Contact plating	Flash gold over nickel			
Insulator (Connector)	PBT GF UL 94 V-0			
Insulator (Contacts)			PBT GF UL 94 V-0	
Shell	Zinc die-cast nickel plated			
Retaining clip			Copper alloy	
Technical Data				
Test voltage	1000 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.	750 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.
Working voltage	250 V AC/DC	60 V AC/DC	250 V AC/DC	250 V AC/DC
	depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1			
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	3 A (UL, VDE) / 2.5 A (CSA)	2 A	10 - 40 A (UL)
Resistance between mated contacts	max. 10 mΩ	max. 10 mΩ	max. 2.7 mΩ	max. 1 mΩ
Insulation resistance	≥ 5 GΩ	max. 10 mΩ	≥ 1 GΩ	≥ 5 GΩ
Characteristic impedance			50/75 Ω	
Frequency range			0-2 GHz	
VSWR-value according MIL-C-39012			≤ 1.2 @ 1.2 GHz ≤ 1.3 @ 1.5 GHz ≤ 1.5 @ 2.0 GHz	
Operating temperature	- 40 °C to + 105 °C			
Mounting style Front or rear panel mounting Panel thickness	min. 1 mm to 1.6 mm			
Insertion force per contact	3.4 N	3.4 N	7 N	7 N
Extraction force per contact	0.2 N	0.2 N	7 N	approx. 5 N
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles			
Recommended wave-solder parameters	Preheating		Solder terminal dipping parameters	
	Temperature	duration	max. Solder bath temperature	max. terminal immersion time
IP67 Combination D-SUB Solid Body	150 °C	180 s	265 °C	8 s

Technical specifications are subject to change without notice

IP67 COMBINATION D-SUB CONNECTORS

Product specification CONEC SlimCon

Basic material	CONEC SlimCon Connectors with			
	D-SUB signal contacts	HD-SUB signal contacts	Coaxial contacts	High power contacts
Contact	Copper alloy			
Contact plating	Flash gold over nickel			
Insulator	PBT GF UL 94 V-0			
Insulator			PTFE/PBTP/PI	
Shell	Zinc die-cast nickel plated			
Retaining clip			Copper alloy	
Technische Daten				
Test voltage	1000 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.	750 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.
Working voltage	250 V AC/DC	60 V AC/DC	250 V AC/DC	250 V AC/DC
	depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1			
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	3 A (UL, VDE) / 2.5 A (CSA)	2 A	10 - 40 A (UL)
Resistance between mated contacts	max. 10 mΩ	max. 10 mΩ	max. 2.7 mΩ	max. 1 mΩ
Insulation resistance	≥ 5 GΩ	max. 10 mΩ	≥ 1 GΩ	≥ 5 GΩ
Characteristic impedance			50/75 Ω	
Frequency range			0-2 GHz	
VSWR-value according MIL-C-39012			≤ 1.2 @ 1.2 GHz ≤ 1.3 @ 1.5 GHz ≤ 1.5 @ 2.0 GHz	
Operating temperature	- 40 °C bis + 105 °C			
Mounting style Front or rear panel mounting Panel thickness	min. 0.8 mm to 1.3 mm			
Insertion force per contact	3.4 N	3.4 N	7 N	7 N
Extraction force per contact	0.2 N	0.2 N	7 N	approx. 5 N
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles			
Recommended wave-solder parameters	Preheating		Solder terminal dipping parameters	
	Temperature	duration	max. Solder bath temperature	max. terminal immersion time
IP67 Combination D-SUB CONEC SlimCon	150 °C	180 s	265 °C	8 s

Technical specifications are subject to change without notice

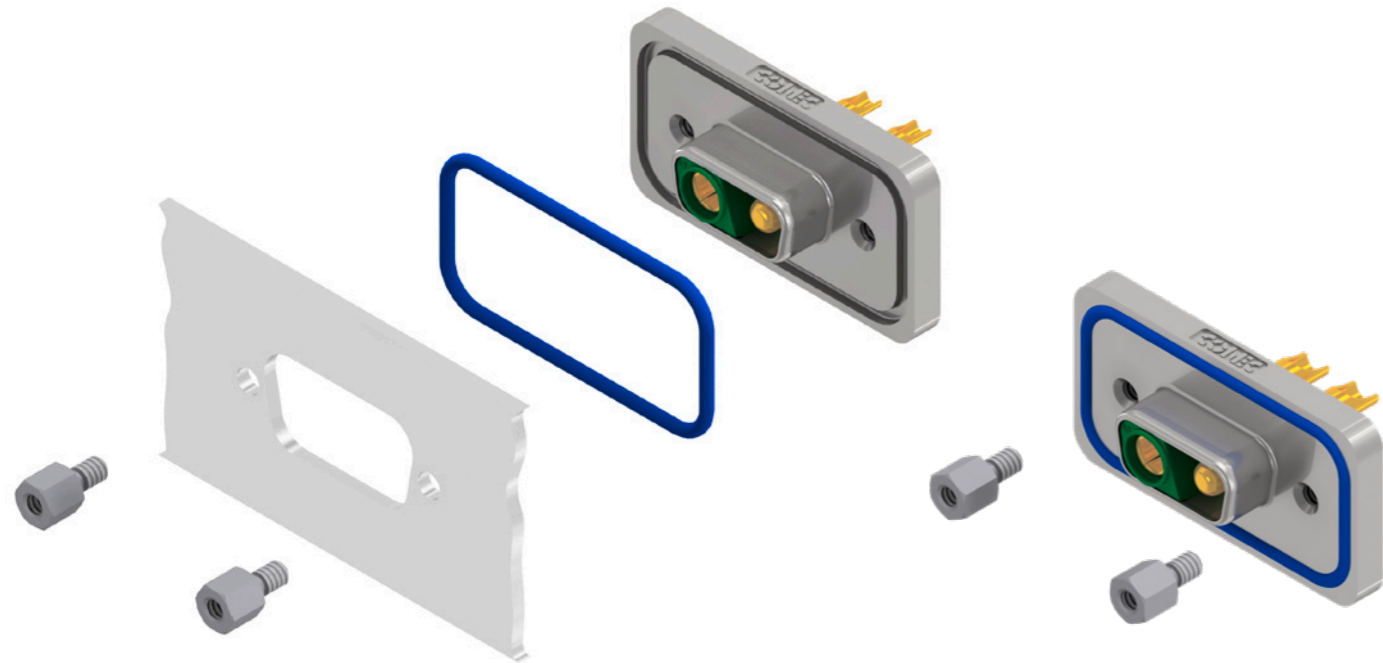
IP67 COMBINATION D-SUB CONNECTORS

Panel mounting

Front panel mounting



Back panel mounting



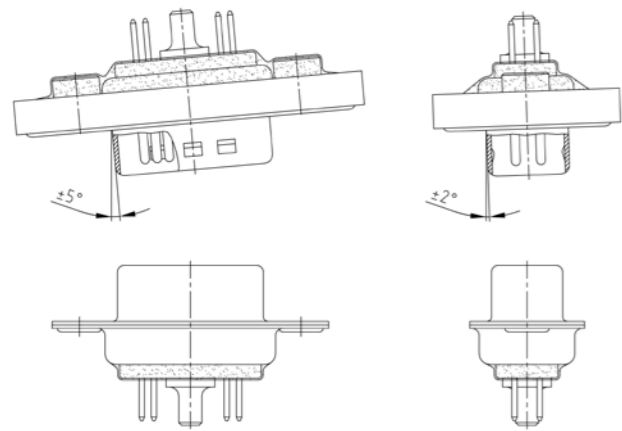
The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (standard & solid body)/.051"/1.3 mm (CONEC SlimCon) such that it does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

Technical specifications are subject to change without notice.

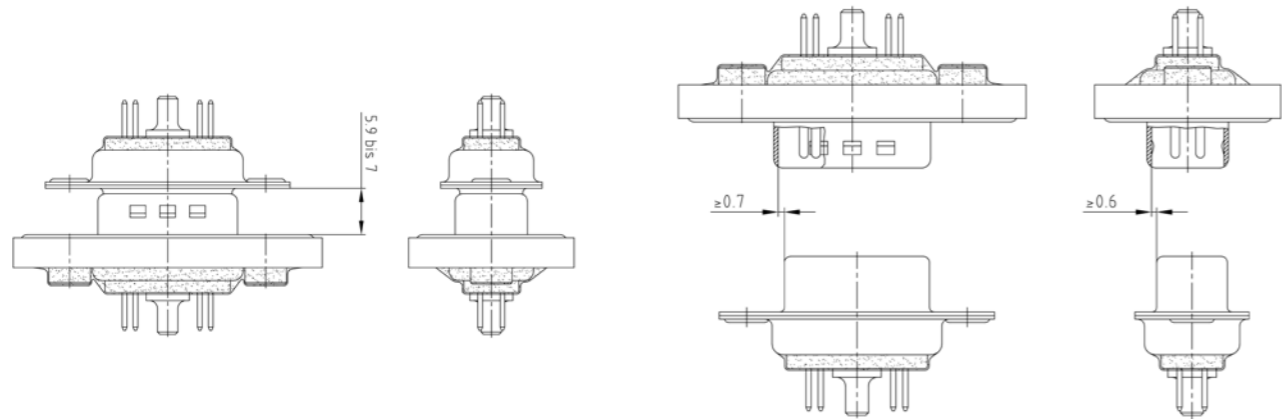
IP67 COMBINATION D-SUB CONNECTORS

Mating conditions

Max. tilt angle for connector mating

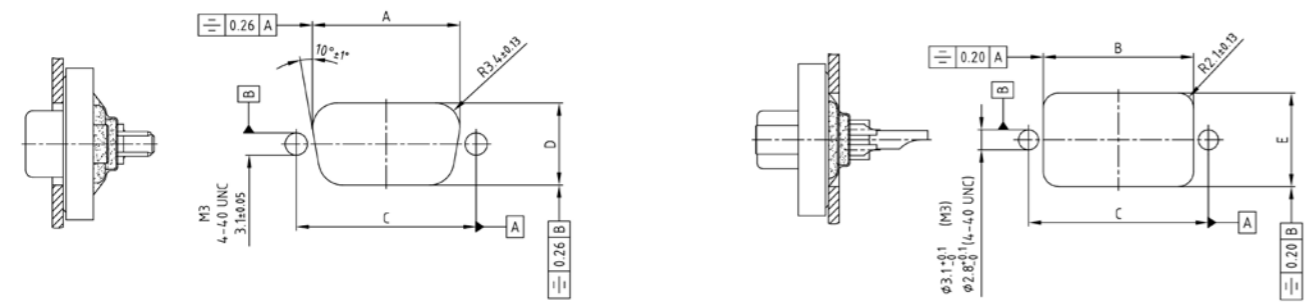


Range for safe contact Lock-in range



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.

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with high power contacts 20 A

Solder cup straight
 Precision machined contacts, AWG 12-14

4-40 UNC threaded insert		No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	3W3	20	250	3		15-007953	15-008083
	5W5					15-007963	15-008093
4-40 UNC threaded insert, coded version		No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	2W2C	20	250	3		15-007933	
	3W3C					15-007943	15-008073

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

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with signal contacts & high power contacts 20 A

Solder cup straight
 Precision machined contacts, AWG 20 and AWG 12-14

4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	7W2	75 (UI) / 5 (CSA VDE)	20	250	3	15-007973	15-008103	

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

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with high power contacts 20 A

Solder pin straight
 Precision machined contacts

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating high power contacts [A]	Betriebsspannung [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	3W3	20	250	3	15-007083	15-007213	
	5W5				15-007093	15-007223	
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm, coded version							
	2W2C	20	250	3	15-007063		
	3W3C				15-007073	15-007203	

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

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with signal contacts & high power contacts 20 A

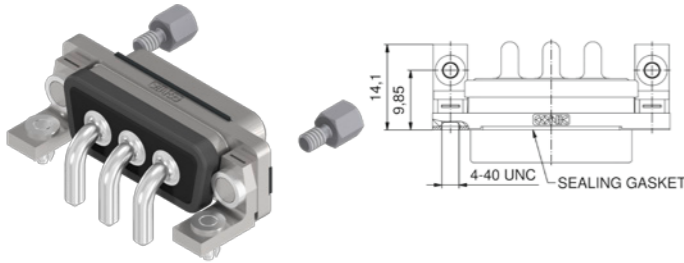
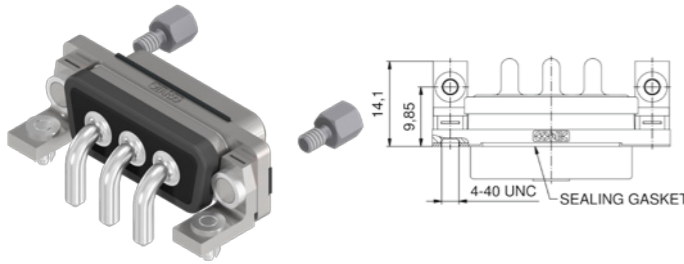
Solder pin straight
 Precision machined contacts

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	7W2	75 (UL) / 5 (CSA VDE)	20	250	3	15-007103	15-007233	

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

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with high power contacts 20 A

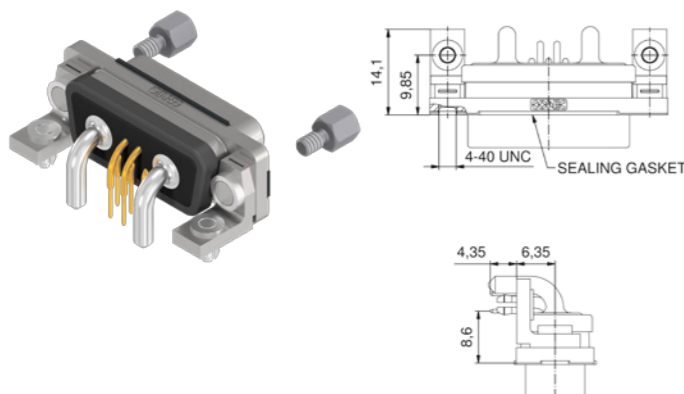
Solder pin angled
 Precision machined contacts, metal bracket

Mounting bracket PCB clip	No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	3W3	20	250	3	15-007353	15-007483
	5W5				15-007363	15-007493
Mounting bracket PCB clip, coded version						
	2W2C	20	250	3	15-007333	
	3W3C				15-007343	15-007483

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

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with signal contacts & high power contacts 20 A

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

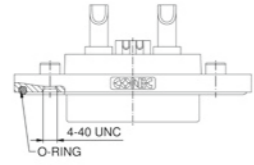
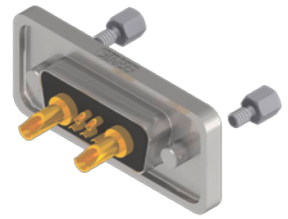
Mounting bracket PCB clip	No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	7W2	75 (UI) / 5 (CSA VDE)	20	250	3	15-007373	15-007503

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

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

Solder cup straight
Precision machined contacts, AWG 20 and AWG 12-14

4-40 UNC threaded insert

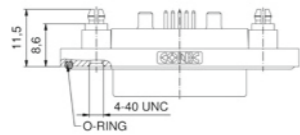


No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UI) / 5 (CSA VDE)	20	250	3	15-005063	15-005193
7W2					15-001103	15-004643
11W1					15-005073	15-005203
9W4					15-005083	15-005213
13W3					15-004563	15-004553
17W2					15-004453	15-004543
21W1					15-005093	15-005223
13W6					15-005103	15-005233
17W5					15-005113	15-005243
21WA4					15-005123	15-005253
25W3					15-005133	15-005263
27W2					15-005143	15-005273
24W7					15-005153	15-005283
36W4					15-005163	15-005293
43W2					15-005173	15-005303
47W1					15-005183	15-005313

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

Solder pin straight
Precision machined contacts

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

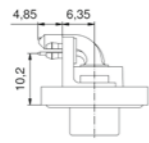
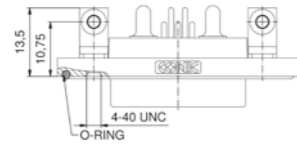
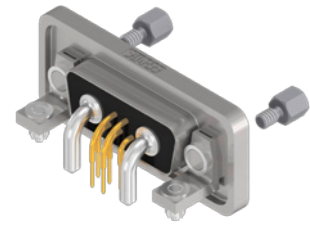


No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UI) / 5 (CSA VDE)	20	250	3	15-005323	15-005473
7W2					15-001823	15-001863
11W1					15-005333	15-005483
9W4					15-005343	15-005493
13W3					15-005353	15-005503
17W2					15-005363	15-005513
21W1					15-005373	15-005523
13W6					15-005383	15-005533
17W5					15-005393	15-005543
21WA4					15-005403	15-005553
25W3					15-005413	15-005563
27W2					15-005423	15-005573
24W7					15-005433	15-005583
36W4					15-005443	15-005593
43W2					15-005453	15-005603
47W1					15-005463	15-005613

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

Solder pin angled, .402"/10.2 mm
Precision machined contacts, metal bracket

Mounting bracket PCB clip



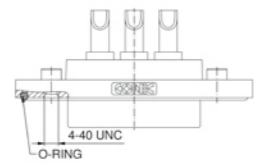
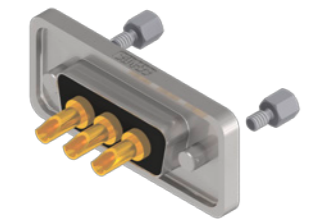
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UI) / 5 (CSA VDE)	20	250	3	15-005623	15-005763
7W2					15-001463	15-001503
11W1					15-005633	15-005773
9W4					15-005643	15-005783
13W3					15-005653	15-005793
17W2					15-005663	15-002323
21W1					15-005673	15-005803
13W6					15-005683	15-005813
17W5					15-005693	15-005823
21WA4					15-005703	15-005833
25W3					15-005713	15-002333
27W2					15-005723	15-005843
24W7					15-005733	15-005853
36W4					15-005743	15-002293
43W2					15-004593	15-005863
47W1					15-005753	15-005873

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

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

Solder cup straight
Precision machined contacts, AWG 12-14

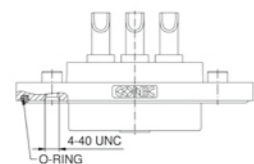
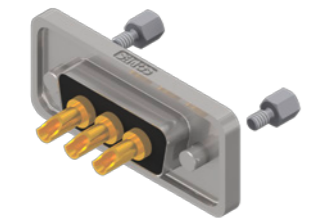
4-40 UNC threaded insert



No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	250	3	15-001083	15-001123
5W5				15-001093	15-001133
8W8				15-001613	15-001653

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

4-40 UNC threaded insert, coded version



No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	250	3	15-001063	
3W3C				15-001073	15-001113

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

Solder pin straight
Precision machined contacts

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating high power contacts [A]	Betriebsspannung [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	3W3	20	250	3	15-001803	15-001843	
	5W5				15-001813	15-001853	
	8W8				15-002023		
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm							
	8W8	20	250	3	15-001783	15-001833	
	3W3C				15-001793	15-005883	

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


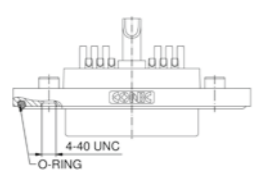
Solder pin angled
Precision machined contacts, metal bracket

Mounting bracket PCB clip		No. of poles	Current rating high power contacts [A]	Betriebsspannung [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	3W3	20	250	3	15-001443	15-001483	
	5W5				15-001453	15-001493	
	8W8				15-001963	15-001993	
Mounting bracket PCB clip							
	2W2C	20	250	3	15-001423		
	3W3C				15-001433	15-001473	

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

Solder cup straight
Precision machined contacts, AWG 12-14


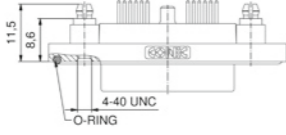
4-40 UNC threaded insert

		No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
 	15W4	3 (UL VDE) / 2.5 (CSA)	20	60	3	15-005893	15-005923	
	19W1					15-005903	15-005933	
	45W2					15-005913	15-005943	

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

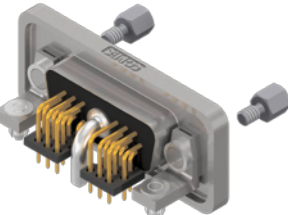
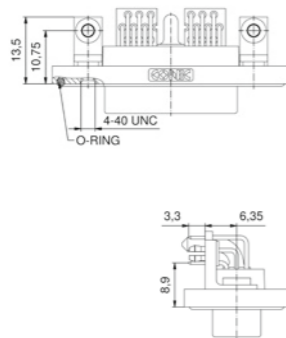
Solder pin straight
Precision machined contacts

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

		No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
 	15W4	3 (UL VDE) / 2.5 (CSA)	20	60	3	15-005953	15-005983	
	19W1					15-005963	15-005993	
	45W2					15-005973	15-006003	

Solder pin angled
Precision machined contacts, metal bracket

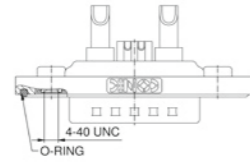
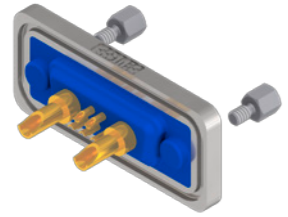
Mounting bracket PCB clip

		No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
 	15W4	3 (UL VDE) / 2.5 (CSA)	20	60	3	15-006013	15-006043	
	19W1					15-006023	15-006053	
	45W2					15-006033	15-006063	

IP67 COMBINATION D-SUB CONNECTORS
With signal & high power contacts 10 A

Solder cup
Precision machined contacts, AWG 20

4-40 UNC threaded insert



No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	10	250	E202784	Shell: Brass tin plated Nickel plated die-cast frame Quality class 3 (A) = 50 mating cycles Stainless steel hex bolts are supplied loose On request: • Shell: Stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread	3 6005W1SAM61 B30X	6005W1 PAM61 B30X
7W2						3 6007W2SAM61 B30X	6007W2 PAM61 B30X
11W1						3 6011W1SAM61 B30X	6011W1 PAM61 B30X
9W4						3 6009W4SAM61 B30X	6009W4 PAM61 B30X
13W3						3 6013W3SAM61 B30X	6013W3 PAM61 B30X
17W2						3 6017W2SAM61 B30X	6017W2 PAM61 B30X
21W1						3 6021W1SAM61 B30X	6021W1 PAM61 B30X
13W6						3 6013W6SAM61 B30X	6013W6 PAM61 B30X
17W5						3 6017W5SAM61 B30X	6017W5 PAM61 B30X
21WA4						3 621WA4SAM61 B30X	621WA4 PAM61 B30X
25W3						3 6025W3SAM61 B30X	6025W3 PAM61 B30X
27W2						3 6027W2SAM61 B30X	6027W2 PAM61 B30X
24W7						3 6024W7SAM61 B30X	6024W7 PAM61 B30X
36W4						3 6036W4SAM61 B30X	6036W4 PAM61 B30X
43W2						3 6043W2SAM61 B30X	6043W2 PAM61 B30X
47W1						3 6047W1SAM61 B30X	6047W1 PAM61 B30X

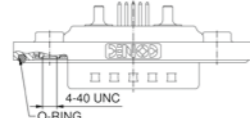
For other Power contacts select code from spread sheet

Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

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

Solder pin straight
Precision machined contacts

4-40 UNC threaded insert



No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	20	250	E202784	Shell: Brass tin plated Nickel plated die-cast frame Quality class 3 (A) = 50 mating cycles Stainless steel hex bolts are supplied loose On request: • Shell: Stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread	3 6005W1SAR68 B30X	6005W1 PAR68 B30X
7W2						3 6007W2SAR68 B30X	6007W2 PAR68 B30X
11W1						3 6011W1SAR68 B30X	6011W1 PAR68 B30X
9W4						3 6009W4SAR68 B30X	6009W4 PAR68 B30X
13W3						3 6013W3SAR68 B30X	6013W3 PAR68 B30X
17W2						3 6017W2SAR68 B30X	6017W2 PAR68 B30X
21W1						3 6021W1SAR68 B30X	6021W1 PAR68 B30X
13W6						3 6013W6SAR68 B30X	6013W6 PAR68 B30X
17W5						3 6017W5SAR68 B30X	6017W5 PAR68 B30X
21WA4						3 621WA4SAR68 B30X	621WA4 PAR68 B30X
25W3						3 6025W3SAR68 B30X	6025W3 PAR68 B30X
27W2						3 6027W2SAR68 B30X	6027W2 PAR68 B30X
24W7						3 6024W7SAR68 B30X	6024W7 PAR68 B30X
36W4						3 6036W4SAR68 B30X	6036W4 PAR68 B30X
43W2						3 6043W2SAR68 B30X	6043W2 PAR68 B30X
47W1						3 6047W1SAR68 B30X	6047W1 PAR68 B30X

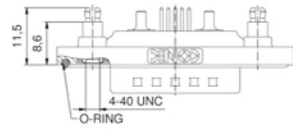
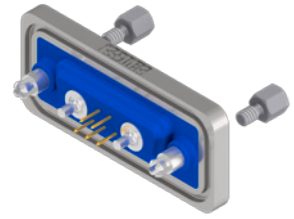
For other Power contacts select code from spread sheet

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

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

Solder pin straight
Precision machined contacts, threaded rear spacer with PCB clip

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



For other Power contacts select code from spread sheet

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

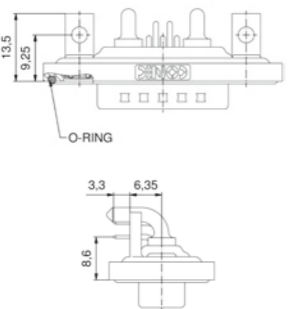
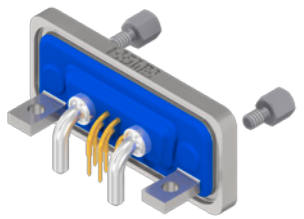
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	20	250	E202784	3	6005W1SAR68E20X	6005W1PAR68E20X
7W2						6007W2SAR68E20X	6007W2PAR68E20X
11W1						6011W1SAR68E20X	6011W1PAR68E20X
9W4						6009W4SAR68E20X	6009W4PAR68E20X
13W3						6013W3SAR68E20X	6013W3PAR68E20X
17W2						6017W2SAR68E20X	6017W2PAR68E20X
21W1						6021W1SAR68E20X	6021W1PAR68E20X
13W6						6013W6SAR68E20X	6013W6PAR68E20X
17W5						6017W5SAR68E20X	6017W5PAR68E20X
21WA4						621WA4SAR68E20X	621WA4PAR68E20X
25W3						6025W3SAR68E20X	6025W3PAR68E20X
27W2						6027W2SAR68E20X	6027W2PAR68E20X
24W7						6024W7SAR68E20X	6024W7PAR68E20X
36W4						6036W4SAR68E20X	6036W4PAR68E20X
43W2						6043W2SAR68E20X	6043W2PAR68E20X
47W1						6047W1SAR68E20X	6047W1PAR68E20X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

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

4-40 UNC threaded insert



For other Power contacts select code from spread sheet

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

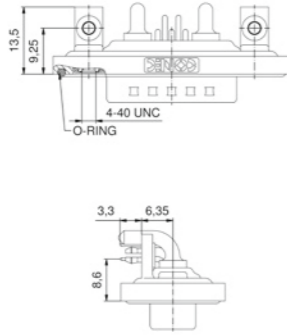
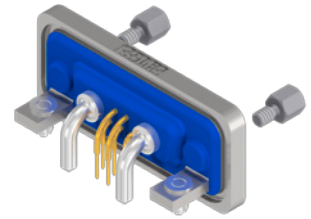
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	15	250	E202784	3	6005W1SAT59S20X	6005W1PAT59S20X
7W2						6007W2SAT59S20X	6007W2PAT59S20X
11W1						6011W1SAT59S20X	6011W1PAT59S20X
9W4						6009W4SAT59S20X	6009W4PAT59S20X
13W3						6013W3SAT59S20X	6013W3PAT59S20X
17W2						6017W2SAT59S20X	6017W2PAT59S20X
21W1						6021W1SAT59S20X	6021W1PAT59S20X
13W6						6013W6SAT59S20X	6013W6PAT59S20X
17W5						6017W5SAT59S20X	6017W5PAT59S20X
21WA4						621WA4SAT59S20X	621WA4PAT59S20X
25W3						6025W3SAT59S20X	6025W3PAT59S20X
27W2						6027W2SAT59S20X	6027W2PAT59S20X
24W7						6024W7SAT81S20X	6024W7PAT81S20X
36W4						6036W4SAT81S20X	6036W4PAT81S20X
43W2						6043W2SAT81S20X	6043W2PAT81S20X
47W1						6047W1SAT81S20X	6047W1PAT81S20X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

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

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



For other Power contacts select code from spread sheet

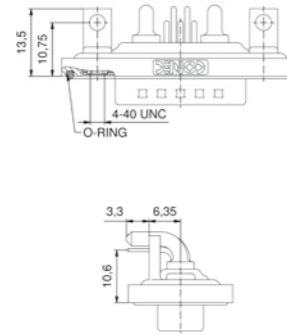
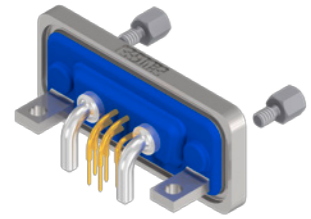
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UI) / 5 (CSA VDE)	15	250	E202784	3	6005W1SAT59S40X	6005W1PAT59S40X
7W2						6007W2SAT59S40X	6007W2PAT59S40X
11W1						6011W1SAT59S40X	6011W1PAT59S40X
9W4						6009W4SAT59S40X	6009W4PAT59S40X
13W3						6013W3SAT59S40X	6013W3PAT59S40X
17W2						6017W2SAT59S40X	6017W2PAT59S40X
21W1						6021W1SAT59S40X	6021W1PAT59S40X
13W6						6013W6SAT59S40X	6013W6PAT59S40X
17W5						6017W5SAT59S40X	6017W5PAT59S40X
21WA4						621WA4SAT59S40X	621WA4PAT59S40X
25W3						6025W3SAT59S40X	6025W3PAT59S40X
27W2						6027W2SAT59S40X	6027W2PAT59S40X
24W7						6024W7SAT81S40X	6024W7PAT81S40X
36W4						6036W4SAT81S40X	6036W4PAT81S40X
43W2						6043W2SAT81S40X	6043W2PAT81S40X
47W1						6047W1SAT81S40X	6047W1PAT81S40X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

4-40 UNC threaded insert



For other Power contacts select code from spread sheet

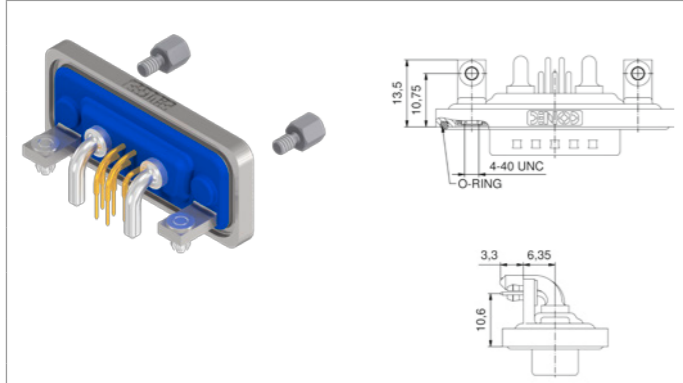
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UI) / 5 (CSA VDE)	15	250	E202784	3	6005W1SAU59R20X	6005W1PAU59R20X
7W2						6007W2SAU59R20X	6007W2PAU59R20X
11W1						6011W1SAU59R20X	6011W1PAU59R20X
9W4						6009W4SAU59R20X	6009W4PAU59R20X
13W3						6013W3SAU59R20X	6013W3PAU59R20X
17W2						6017W2SAU59R20X	6017W2PAU59R20X
21W1						6021W1SAU59R20X	6021W1PAU59R20X
13W6						6013W6SAU59R20X	6013W6PAU59R20X
17W5						6017W5SAU59R20X	6017W5PAU59R20X
21WA4						621WA4SAU59R20X	621WA4PAU59R20X
25W3						6025W3SAU59R20X	6025W3PAU59R20X
27W2						6027W2SAU59R20X	6027W2PAU59R20X
24W7						6024W7SAU81R20X	6024W7PAU81R20X
36W4						6036W4SAU81R20X	6036W4PAU81R20X
43W2						6043W2SAU81R20X	6043W2PAU81R20X
47W1						6047W1SAU81R20X	6047W1PAU81R20X

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

Solder pin angled, .417" / 10.6 mm
Precision machined contacts, metal bracket with PCB clip

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



For other Power contacts select code from spread sheet

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

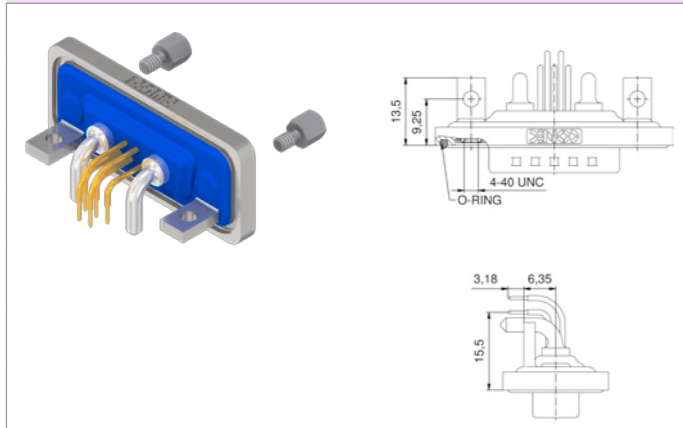
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact	
5W1	75 (UL) / 5 (CSA VDE)	15	250	E202784		3	6005W1SAU59R40X	6005W1PAU59R40X
7W2						3	6007W2SAU59R40X	6007W2PAU59R40X
11W1						3	6011W1SAU59R40X	6011W1PAU59R40X
9W4						3	6009W4SAU59R40X	6009W4PAU59R40X
13W3						3	6013W3SAU59R40X	6013W3PAU59R40X
17W2						3	6017W2SAU59R40X	6017W2PAU59R40X
21W1						3	6021W1SAU59R40X	6021W1PAU59R40X
13W6						3	6013W6SAU59R40X	6013W6PAU59R40X
17W5						3	6017W5SAU59R40X	6017W5PAU59R40X
21WA4						3	621WA4SAU59R40X	621WA4PAU59R40X
25W3						3	6025W3SAU59R40X	6025W3PAU59R40X
27W2						3	6027W2SAU59R40X	6027W2PAU59R40X
24W7						3	6024W7SAU81R40X	6024W7PAU81R40X
36W4						3	6036W4SAU81R40X	6036W4PAU81R40X
43W2						3	6043W2SAU81R40X	6043W2PAU81R40X
47W1						3	6047W1SAU81R40X	6047W1PAU81R40X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

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

4-40 UNC threaded insert



For other Power contacts select code from spread sheet

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

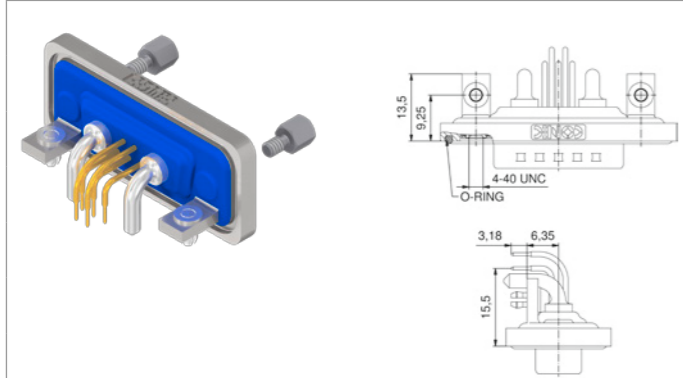
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact	
5W1	75 (UL) / 5 (CSA VDE)	15	250	E202784		3	6005W1SAZ59S20X	6005W1PAZ59S20X
7W2						3	6007W2SAZ59S20X	6007W2PAZ59S20X
11W1						3	6011W1SAZ59S20X	6011W1PAZ59S20X
9W4						3	6009W4SAZ59S20X	6009W4PAZ59S20X
13W3						3	6013W3SAZ59S20X	6013W3PAZ59S20X
17W2						3	6017W2SAZ59S20X	6017W2PAZ59S20X
21W1						3	6021W1SAZ59S20X	6021W1PAZ59S20X
13W6						3	6013W6SAZ59S20X	6013W6PAZ59S20X
17W5						3	6017W5SAZ59S20X	6017W5PAZ59S20X
21WA4						3	621WA4SAZ59S20X	621WA4PAZ59S20X
25W3						3	6025W3SAZ59S20X	6025W3PAZ59S20X
27W2						3	6027W2SAZ59S20X	6027W2PAZ59S20X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread
• Shellsize 5 on request

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

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

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



For other Power contacts select code from spread sheet

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

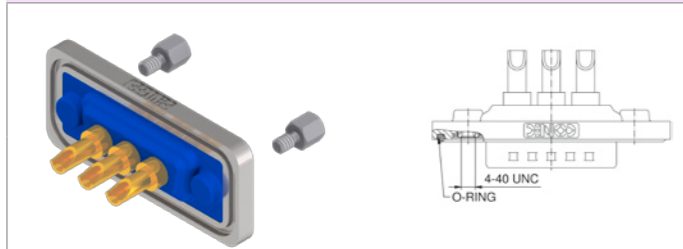
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	15	250	E202784		3 6005W1SAZ59S40X	6005W1PAZ59S40X
7W2						3 6007W2SAZ59S40X	6007W2PAZ59S40X
11W1						3 6011W1SAZ59S40X	6011W1PAZ59S40X
9W4						3 6009W4SAZ59S40X	6009W4PAZ59S40X
13W3						3 6013W3SAZ59S40X	6013W3PAZ59S40X
17W2						3 6017W2SAZ59S40X	6017W2PAZ59S40X
21W1						3 6021W1SAZ59S40X	6021W1PAZ59S40X
13W6						3 6013W6SAZ59S40X	6013W6PAZ59S40X
17W5						3 6017W5SAZ59S40X	6017W5PAZ59S40X
21WA4						3 621WA4SAZ59S40X	621WA4PAZ59S40X
25W3						3 6025W3SAZ59S40X	6025W3PAZ59S40X
27W2						3 6027W2SAZ59S40X	6027W2PAZ59S40X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread
• Shellsize 5 on request

IP67 COMBINATION D-SUB CONNECTORS
With high power contacts 10 A

Solder cup straight
Precision machined contacts

4-40 UNC threaded insert



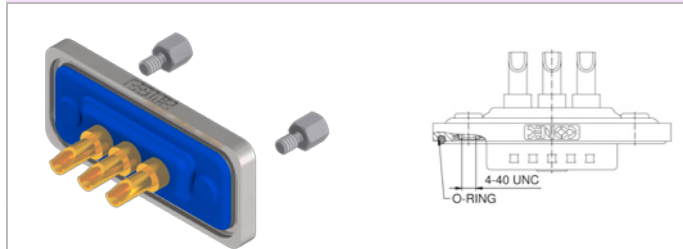
For other Power contacts select code from spread sheet

Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	10	250	E202784		6003W3SXX61B30X	6003W3PXX61B30X
5W5		250			3 6005W5SXX61B30X	6005W5PXX61B30X
8W8		250			6008W8SXX61B30X	6008W8PXX61B30X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert, coded version



For other Power contacts select code from spread sheet

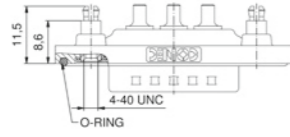
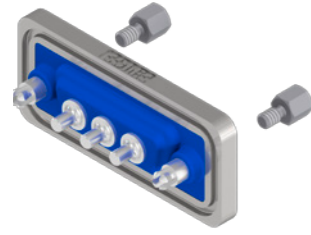
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	10	250	E202784	3	602W2CSXX61B30X	602W2CPXX61B30X
3W3C		250			603W3CSXX61B30X	603W3CPXX61B30X

IP67 COMBINATION D-SUB CONNECTORS
With high power contacts 10 A

Solder pin straight
Precision machined contacts

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

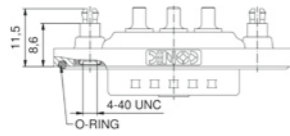
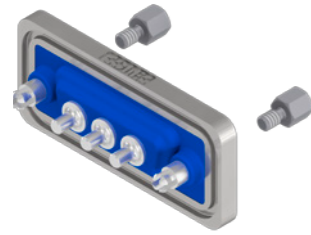


For other Power contacts select code from spread sheet

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

No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3		250	E202784	3	6003W3SXX68E20X	6003W3PXX68E20X
5W5	20	250			6005W5SXX68E20X	6005W5PXX68E20X
8W8		250			6008W8SXX68E20X	6008W8PXX68E20X
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm, coded version						
			E202784	3		
2W2C		250			602W2CSXX68E20X	602W2CPXX68E20X
	20					
			E202784	3		
3W3C		250			603W3CSXX68E20X	603W3CPXX68E20X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread



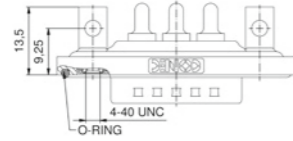
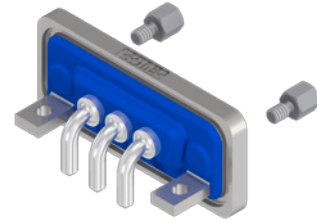
For other Power contacts select code from spread sheet

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

IP67 COMBINATION D-SUB CONNECTORS
With high power contacts 15 A

Solder pin angled
Precision machined contacts, metal bracket

4-40 UNC threaded insert



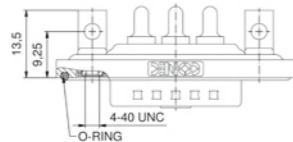
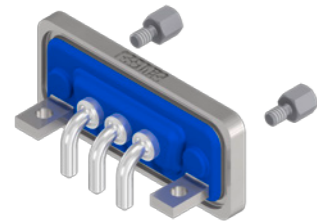
No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	15	250	E202784	3	6003W3SXX59S20X	6003W3PXX59S20X
5W5	15	250			6005W5SXX59S20X	6005W5PXX59S20X
8W8	15	250			6008W8SXX59S20X	6008W8PXX59S20X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

For other Power contacts select code from spread sheet

Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75

4-40 UNC threaded insert, coded version



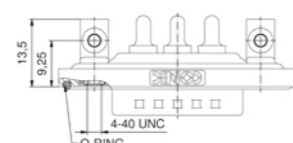
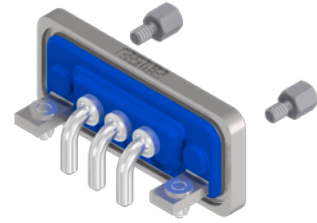
No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	15	250	E202784	3	602W2CSXX59S20X	602W2CPXX59S20X
3W3C	15	250			603W3CSXX59S20X	603W3CPXX59S20X

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

Solder pin angled
Precision machined contacts, metal bracket with PCB clip

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



No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	15	250	E202784	3	6003W3SXX59S40X	6003W3PXX59S40X
5W5	15	250			6005W5SXX59S40X	6005W5PXX59S40X
8W8	15	250			6008W8SXX59S40X	6008W8PXX59S40X

For other Power contacts select code from spread sheet

Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75

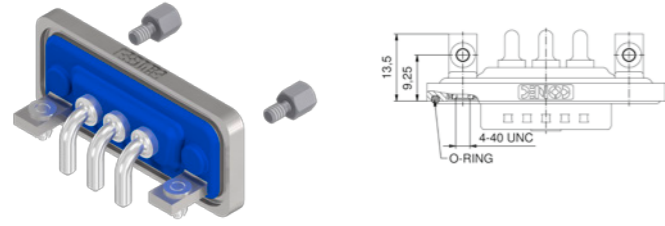
IP67 COMBINATION D-SUB CONNECTORS

With high power contacts 15 A

Solder pin angled

Precision machined contacts, metal bracket with PCB clip

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



No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	15	250	E202784	3	602W2CSXX59S40X	602W2CPXX59S40X
3W3C		250			603W3CSXX59S40X	603W3CPXX59S40X

Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Shell: Stainless steel
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

For other Power contacts select code from spread sheet

Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75

IP67 COMBINATION D-SUB CONNECTORS

Without frame, with signal & high power contacts 20 A

Solder cup straight

Precision machined contacts, design for use with hood

Through-hole \varnothing 3 mm



No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
9W4	75 (UU) / 5 (CSA-VDE)	10	250	E202784	3	4005W1SAM61A10X	4005W1PAM61A10X
7W2						4007W2SAM61A10X	4007W2PAM61A10X
17W5						4011W1SAM61A10X	4011W1PAM61A10X
9W4						4009W4SAM61A10X	4009W4PAM61A10X
21W1						4013W3SAM61A10X	4013W3PAM61A10X
24W7						4017W2SAM61A10X	4017W2PAM61A10X
27W2						4021W1SAM61A10X	4021W1PAM61A10X
24W7						4013W6SAM61A10X	4013W6PAM61A10X
25W3						4017W5SAM61A10X	4017W5PAM61A10X
21WA4						421WA4SAM61A10X	421WA4PAM61A10X
43W2						4025W3SAM61A10X	4025W3PAM61A10X
47W1						4027W2SAM61A10X	4027W2PAM61A10X
36W4						4024W7SAM61A10X	4024W7PAM61A10X
21WA4						4036W4SAM61A10X	4036W4PAM61A10X
43W2						4043W2SAM61A10X	4043W2PAM61A10X
47W1						4047W1SAM61A10X	4047W1PAM61A10X

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

For other Power contacts select code from spread sheet

Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

IP67 COMBINATION D-SUB CONNECTORS
Without frame, with high power contacts 10 A

Solder cup straight
Precision machined contacts, design for use with hood

Through-hole Ø 3 mm

No. of poles		Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
8W8			250	E202784	3	4003W3SXX61A10X	4003W3PXX61A10X
11W1		10	250			4005W5SXX61A10X	4005W5PXX61A10X
13W3			250			4008W8SXX61A10X	4008W8PXX61A10X

For other Power contacts select code from spread sheet

Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

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

Through-hole Ø 3 mm, coded version

No. of poles		Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C			250	E202784	3	402W2CSXX61A10X	402W2CPXX61A10X
3W3C		10	250			403W3CSXX61A10X	403W3CPXX61A10X

For other Power contacts select code from spread sheet

Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

IP67 COMBINATION D-SUB CONNECTORS
Front panel mounting, with signal & high power contacts

Solder cup straight
Precision machined contacts

Front spacer 4-40 UNC

No. of poles		Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1				250	E202784	3	6005W1SAM61B50X	6005W1PAM61B50X
7W2							6007W2SAM61B50X	6007W2PAM61B50X
11W1							6011W1SAM61B50X	6011W1PAM61B50X
9W4							6009W4SAM61B50X	6009W4PAM61B50X
13W3							6013W3SAM61B50X	6013W3PAM61B50X
17W2							6017W2SAM61B50X	6017W2PAM61B50X
21W1							6021W1SAM61B50X	6021W1PAM61B50X
13W6							6013W6SAM61B50X	6013W6PAM61B50X
17W5							6017W5SAM61B50X	6017W5PAM61B50X
21WA4							621WA4SAM61B50X	621WA4PAM61B50X
25W3							6025W3SAM61B50X	6025W3PAM61B50X
27W2							6027W2SAM61B50X	6027W2PAM61B50X
24W7							6024W7SAM61B50X	6024W7PAM61B50X
36W4							6036W4SAM61B50X	6036W4PAM61B50X
43W2							6043W2SAM61B50X	6043W2PAM61B50X
47W1							6047W1SAM61B50X	6047W1PAM61B50X

For other Power contacts select code from spread sheet

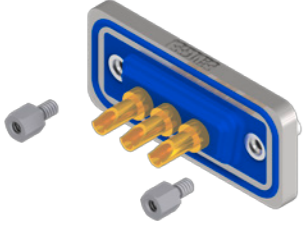
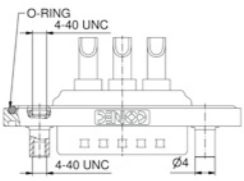
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

IP67 COMBINATION D-SUB CONNECTORS 20 A
Front panel mounting, with high power contacts

Solder cup straight
 Precision machined contacts

Front spacer 4-40 UNC

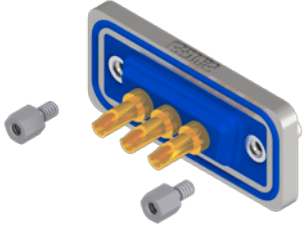
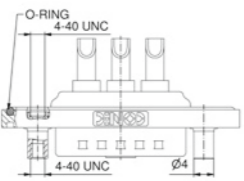
Front spacer 4-40 UNC		No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	3W3	250	E202784	3	6003W3SXX61 B50X	6003W3PXX61 B50X		
	5W5	10			250	6005W5SXX61 B50X	6005W5PXX61 B50X	
	8W8	250			6008W8SXX61 B50X	6008W8PXX61 B50X		

For other Power contacts select code from spread sheet

Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

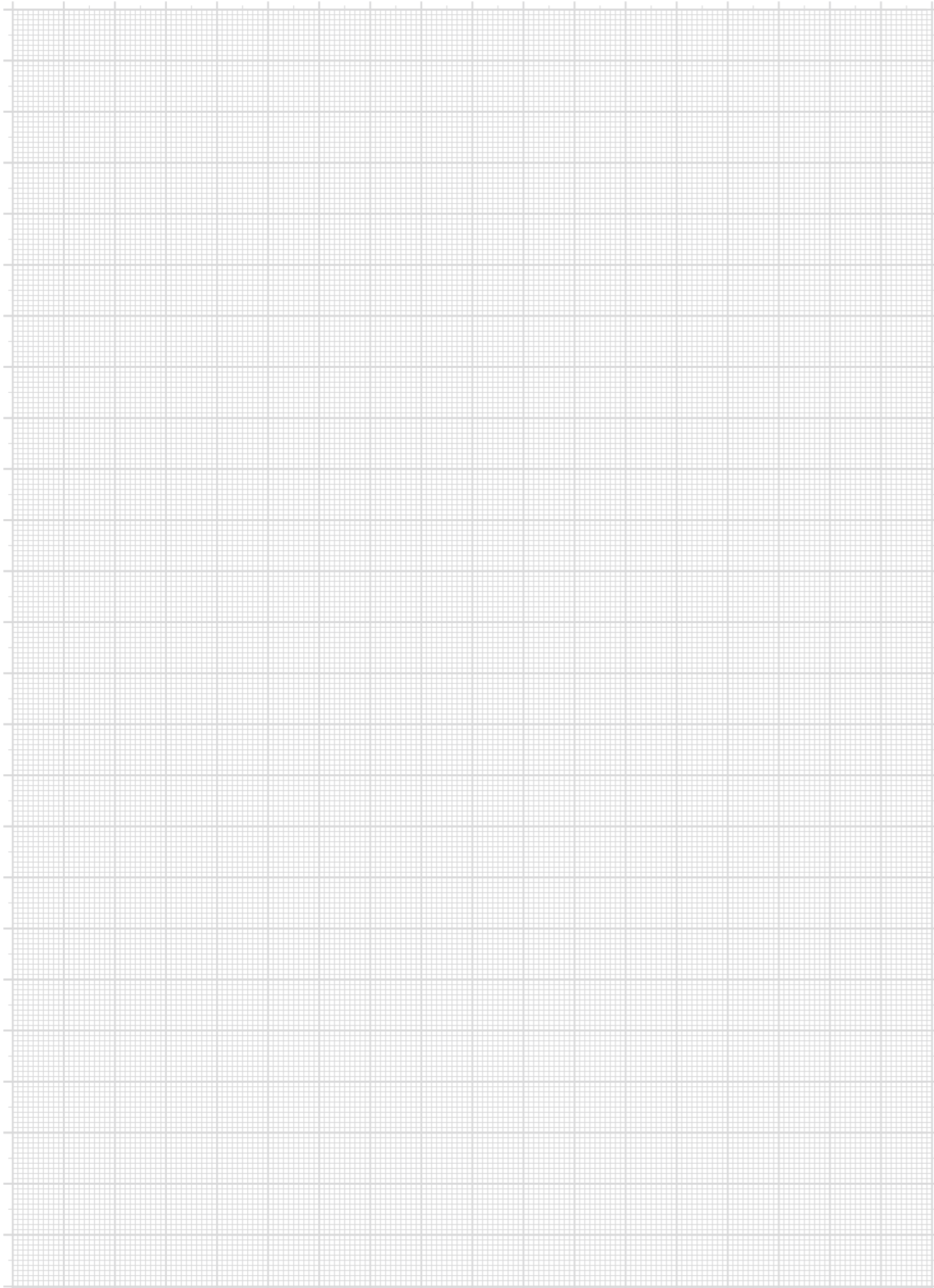
Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Shell: Stainless steel
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

Front spacer 4-40 UNC, coded version

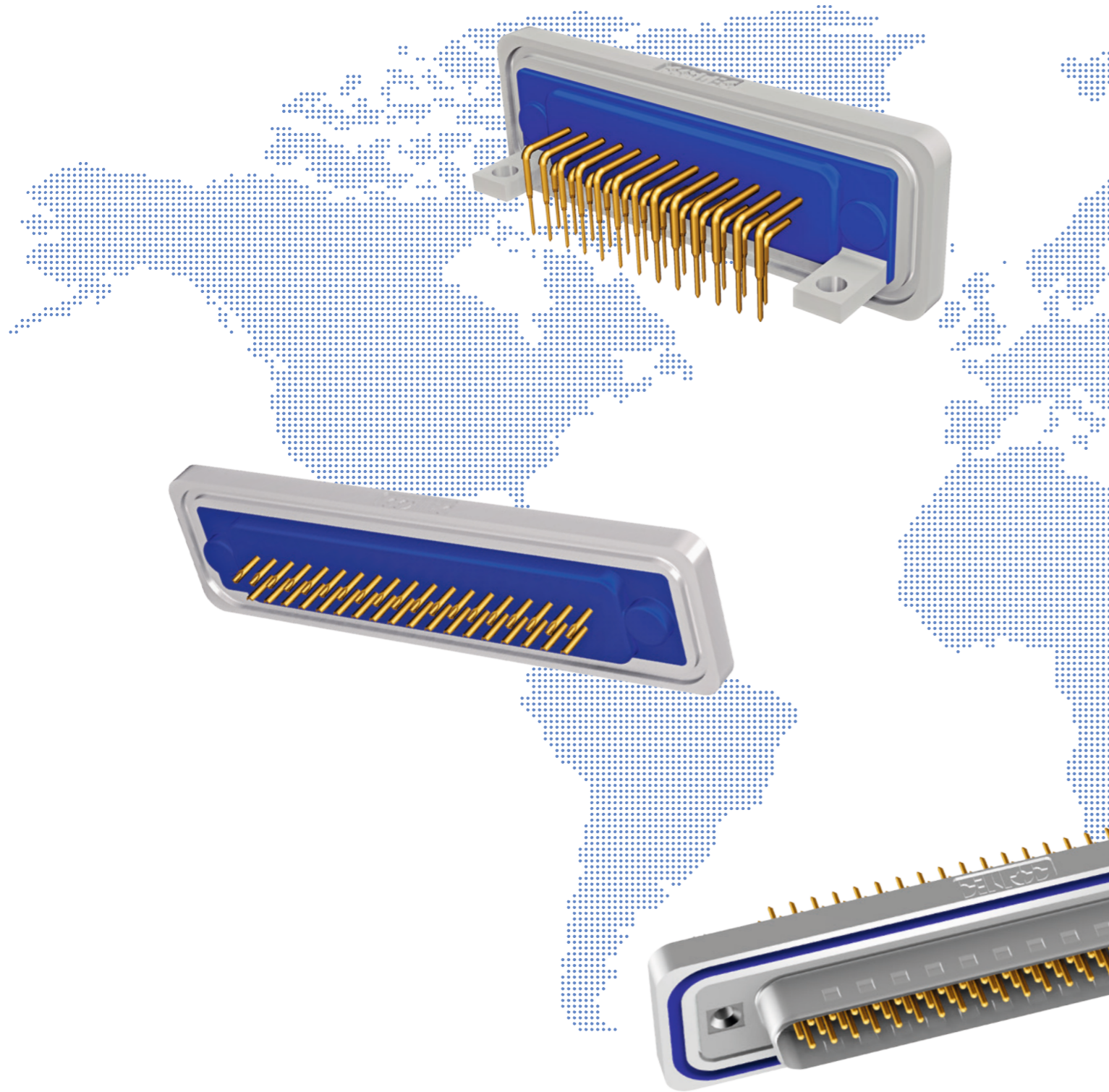
Front spacer 4-40 UNC, coded version		No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	2W2C	250	E202784	3	602W2CSXX61 B50X	602W2CPXX61 B50X		
	3W3C	10			250	603W3CSXX61 B50X	603W3CPXX61 B50X	

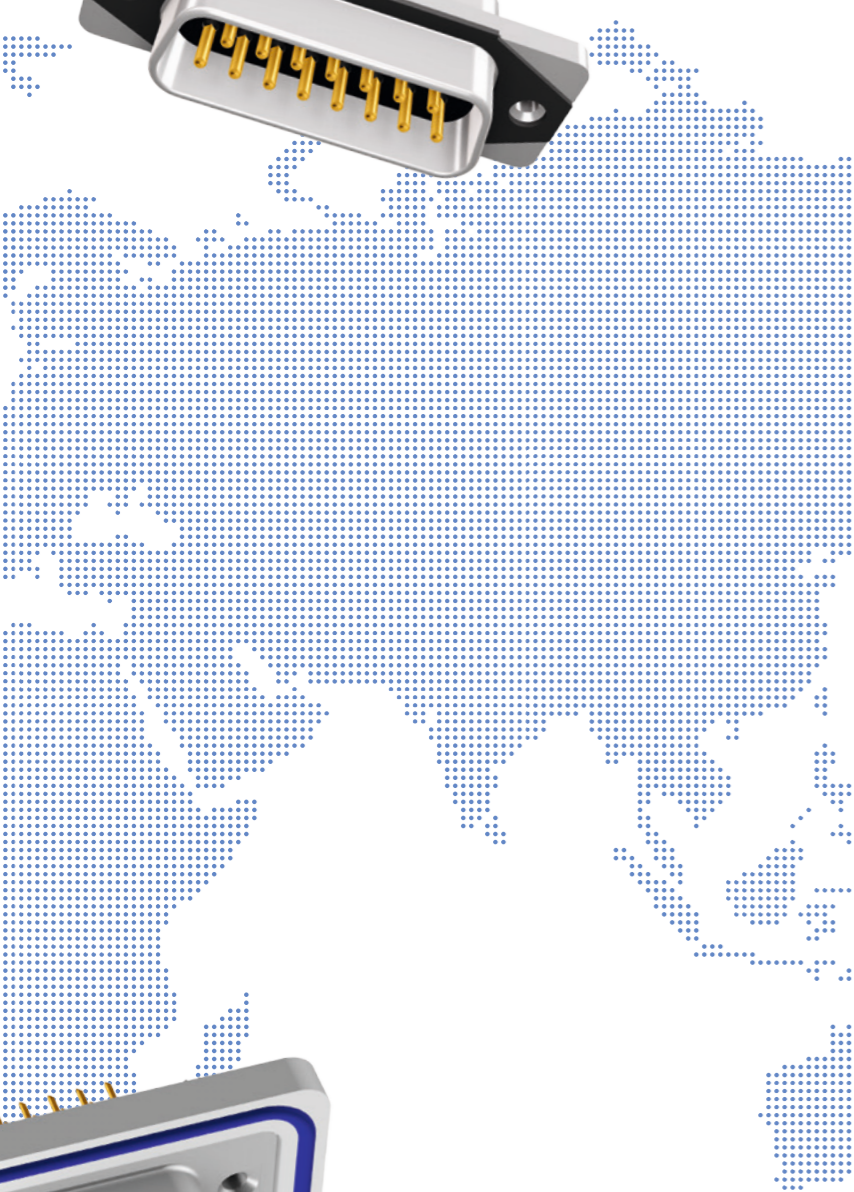
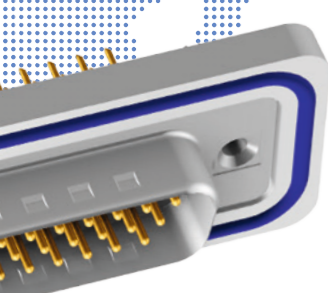
For other Power contacts select code from spread sheet

Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A



IP67 FILTER D-SUB CONNECTORS





IP67 FILTER D-SUB CONNECTORS

Part Number Creator

6 S T F 0 9 P A M 0 4 B 3 O X

Product Line
 4* = Shell brass tin plated with plastic frame or without frame
 6 = Shell brass tin plated with metal frame (Standard)
 (*on request)

Variations
 STF = D-Subminiatur Standard filtered
 HDF = D-Subminiatur High Density filtered

No. of pos. for STF		No. of pos. for HDF	
09	= 09-pos.	15	= 15-pos.
15	= 15-pos.	26	= 26-pos.
25	= 25-pos.	44	= 44-pos.
37	= 37-pos.	62	= 62-pos.
50	= 50-pos.	78	= 78-pos.

P = Plug connector (Standard)
 (Socket connector on request)

Quality class / Plating code for contacts
 A = Quality class 3 = 50 mating cycles
 B = Quality class 2 = 200 mating cycles
 C = Quality class 1 = 500 mating cycles

Termination
 M = Solder cup only for STF
 R = Solder pin, straight
 T = Solder pin, angled, 4.80 mm only for STF
 U = Solder pin, angled, 7.00 mm only for STF
 Z = Solder pin, angled, 11.80 mm only for STF
 Y = Solder pin, angled, 5.60 mm only for HDF

Capacitance
 03 = 370 pF ± 20% tolerance
 04 = 830 pF ± 20% tolerance
 05* = 1300 pF ± 20% tolerance * not applicable for HDF

Mounting style
 A1 = Riveted through hole for cable mount / Shell without sealing frame
 B3 = 4-40 UNC threaded insert
 B5 = Threaded lock for 4-40 UNC front mounting
 E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" / 1.60 mm
 S2 = Metal bracket 4-40 UNC threaded insert
 S4 = Metal bracket 4-40 UNC threaded insert and PCB clip
 R2 = Metal bracket 4-40 UNC threaded insert
 R4 = Metal bracket 4-40 UNC threaded insert and PCB clip

OX = Standard

IP67 FILTER D-SUB CONNECTORS

Product specification

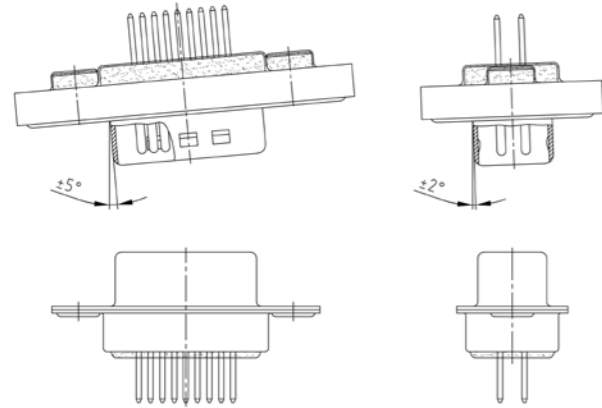
Basic material	IP67 Filter D-SUB Standard 9-, 15-, 25-, 37-, 50-pos.	IP67 Filter D-SUB High Density 15-, 26-, 44-, 62-pos.	IP67 Filter D-SUB SlimCon 9-, 15-, 25-pos.	
Contact	Copper alloy			
Contact plating	Gold over nickel			
Insulator	PBT GF UL94 V-0			
Shell	Brass tin plated		Zinc die-cast nickel plated	
Seal	O-Ring Silicone		Sealing Gasket Silicone or EMC	
Technical Data				
Dielectric with standing voltage	424 V DC	300 V DC	424 V DC	
Working voltage	100 V DC* *depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1			
Voltage surge 10/700 µs	300 V			
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	3 A (UL, VDE) / 2,5 A (CSA)	5 A	
Contact resistance	max. 10 mΩ prior to stressing ΔR max. 10 mΩ after stressing per IEC 60807-2			
Insulation resistance	≥ 1 GΩ			
Capacitor Values	370 pF ± 20 % 830 pF ± 20 % 1300 pF ± 20 %	370 pF ± 20 % 830 pF ± 20 % other capacitor values on request	370 pF ± 20 % 820 pF ± 20 % 1200 pF ± 20 %	
Operating temperature	-25 °C bis/to +105 °C	-25 °C bis/to +85 °C	-40 °C bis/to +105 °C	
Humidity	40 °C / 85% Relative humidity			
Mating and unmating forces	9-pos. ≤ 30 N 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 67-pos. ≤ 170 N	9-pos. ≤ 30 N 15-pos. ≤ 50 N 25-pos. ≤ 83 N	
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles			
Recommended wavesolder parameters	Preheating		Solder terminal dipping parameters	
	max. temperature	duration (max.)	max. Solder bath temperature	max. terminal immersion time
IP67 Filter D-SUB Standard	100 °C	30 s	260 °C	5 s
IP67 Filter D-SUB High Density	100 °C	30 s	260 °C	5 s
IP67 Filter D-SUB SlimCon	150 °C	180 s	265 °C	8 s

Technical specifications are subject to change without notice

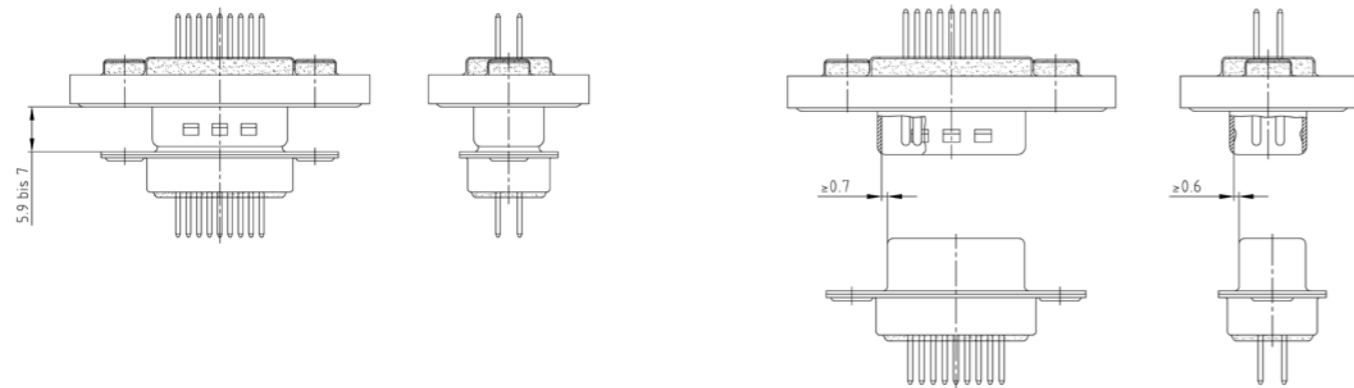
IP67 FILTER D-SUB CONNECTORS

Mating conditions

Max. tilt angle for connector mating

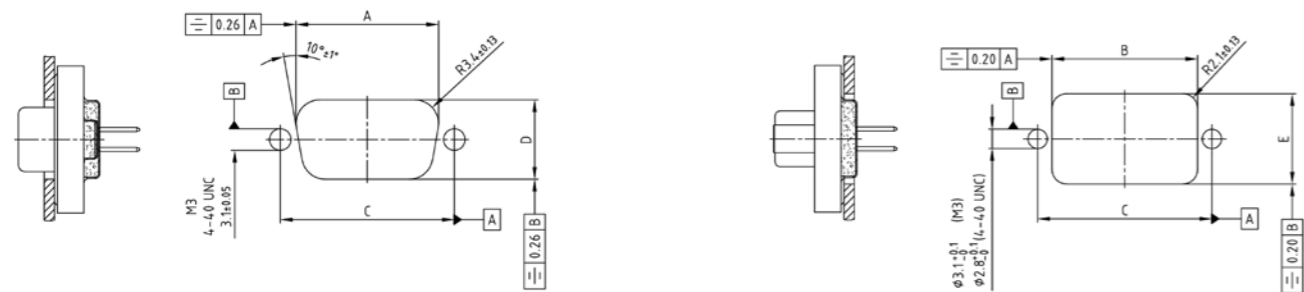


Range for safe contact Lock-in range



Panel cut-out

Rear panel mounting Front panel mounting



Shell size	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
9	20.50	20.90	25.00	11.40	13.00
15	28.80	29.20	33.30	11.40	13.00
25	42.50	42.90	47.04	11.40	13.00
37	59.10	59.40	63.50	11.40	13.00
50	56.30	57.00	61.10	14.10	15.80

IP67 FILTER D-SUB CONNECTORS

Panel mounting

Front panel mounting



Back panel mounting

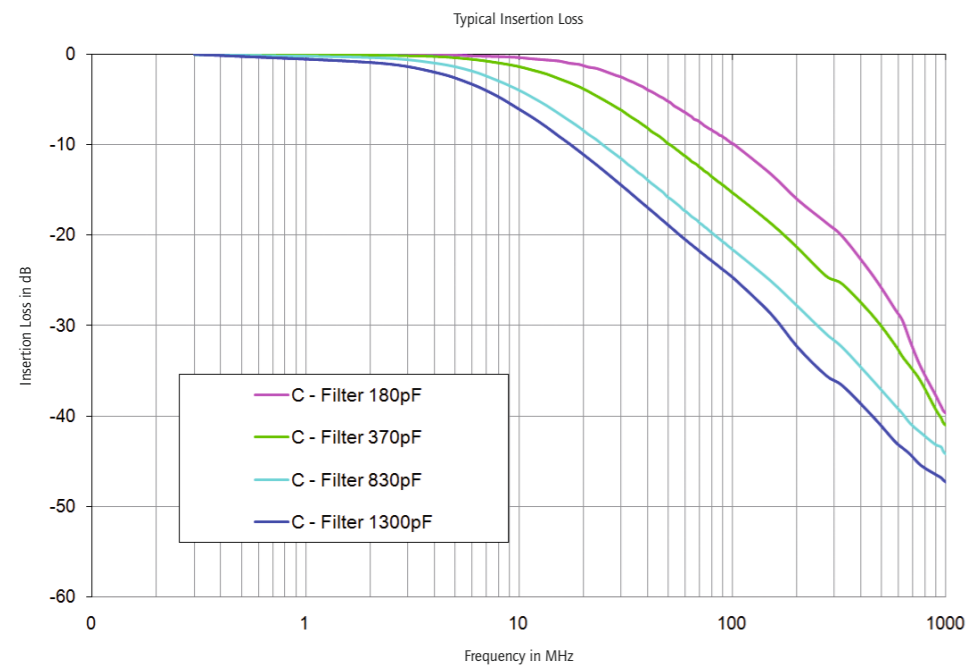


The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (Standard)/.051"/1.3 mm (CONEC SlimCon) such that it does not extend beyond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

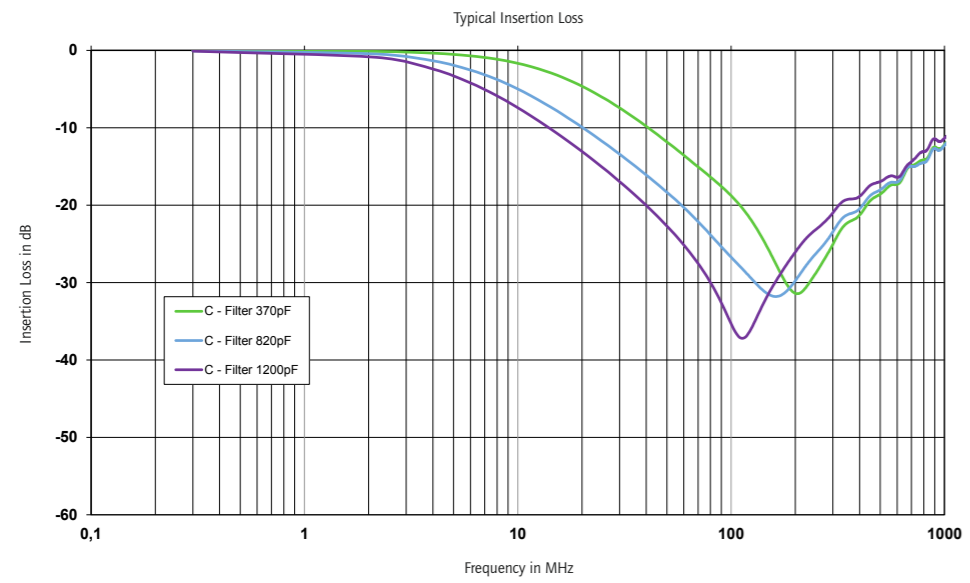
IP67 FILTER D-SUB CONNECTORS

Insertion loss

C-Filter with planar filter technology



C-Filter with chip technology (CONEC SlimCon)

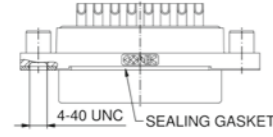
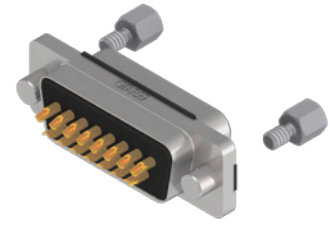


Technical specifications are subject to change without notice.

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

Solder cup
 Precision machined contacts, AWG20

4-40 UNC threaded insert



No. of poles	Current rating [A]	Working voltage [V]	Quality class	Capacitance [pF]	EMC gasket	Silicone gasket	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA, VDE)						15-008983	15-008943
15	100	3	370	✓		15-008993	15-008953	
25	75 (UL) / 5 (CSA, VDE)					15-009003	15-008963	
09	75 (UL) / 5 (CSA, VDE)					15-009063	15-009023	
15	100	3	820	✓		15-009073	15-009033	
25	75 (UL) / 5 (CSA, VDE)					15-009083	15-009043	
09	75 (UL) / 5 (CSA, VDE)					15-009143	15-009103	
15	100	3	1200	✓		15-009153	15-009113	
25	75 (UL) / 5 (CSA, VDE)					15-009163	15-009123	
09	75 (UL) / 5 (CSA, VDE)					15-009463	15-009423	
15	100	3	370		✓	15-009473	15-009433	
25	75 (UL) / 5 (CSA, VDE)					15-009483	15-009443	
09	75 (UL) / 5 (CSA, VDE)					15-009543	15-009503	
15	100	3	820	✓		15-009553	15-009513	
25	75 (UL) / 5 (CSA, VDE)					15-009563	15-009523	
09	75 (UL) / 5 (CSA, VDE)					15-009623	15-009583	
15	100	3	1200	✓		15-009633	15-009593	
25	75 (UL) / 5 (CSA, VDE)					15-009643	15-009603	

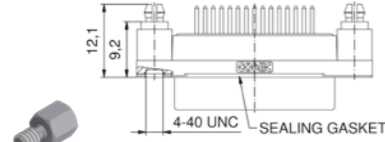
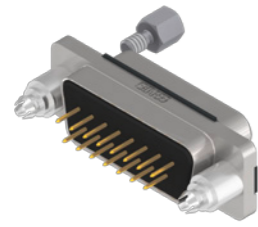
One-piece zinc die-cast nickel plated shell
 EMC Gasket or Silicone Gasket
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • Gaskets also available separately

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

Solder pin, straight
 Precision machined contacts

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

One-piece zinc die-cast nickel plated shell
 EMC Gasket or Silicone Gasket
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • Gaskets also available separately



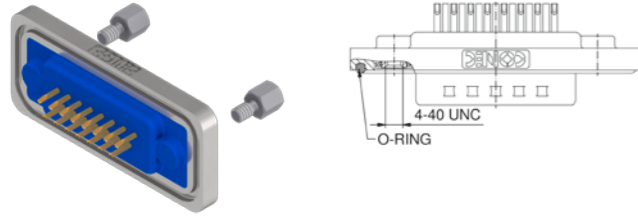
No. of poles	Current rating [A]	Working voltage [V]	Quality class	Capacitance [pF]	EMC gasket	Silicone gasket	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA, VDE)						15-009223	15-009183
15	100	3	370	✓		15-009233	15-009193	
25	75 (UL) / 5 (CSA, VDE)					15-009243	15-009203	
09	75 (UL) / 5 (CSA, VDE)					15-009303	15-009263	
15	100	3	820	✓		15-009313	15-009273	
25	75 (UL) / 5 (CSA, VDE)					15-009323	15-009283	
09	75 (UL) / 5 (CSA, VDE)					15-009383	15-009343	
15	100	3	1200	✓		15-009393	15-009353	
25	75 (UL) / 5 (CSA, VDE)					15-009403	15-009363	
09	75 (UL) / 5 (CSA, VDE)					15-009703	15-009663	
15	100	3	370		✓	15-009713	15-009673	
25	75 (UL) / 5 (CSA, VDE)					15-009723	15-009683	
09	75 (UL) / 5 (CSA, VDE)					15-009783	15-009743	
15	100	3	820	✓		15-009793	15-009753	
25	75 (UL) / 5 (CSA, VDE)					15-009803	15-009763	
09	75 (UL) / 5 (CSA, VDE)					15-009863	15-009823	
15	100	3	1200	✓		15-009873	15-009833	
25	75 (UL) / 5 (CSA, VDE)					15-009883	15-009843	

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

Solder cup
 Precision machined contacts, AWG 26

4-40 UNC threaded insert

Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

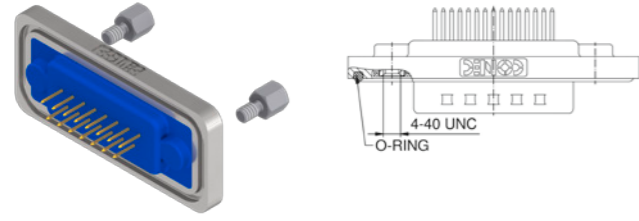
4-40 UNC threaded insert		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
	09	75 (UII) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAM03B30X	
	15						6STF15PAM03B30X	
	25						6STF25PAM03B30X	
	37						6STF37PAM03B30X	
	50						6STF50PAM03B30X	
	09	75 (UII) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAM04B30X	
	15						6STF15PAM04B30X	
	25						6STF25PAM04B30X	
	37						6STF37PAM04B30X	
	50						6STF50PAM04B30X	
	09	75 (UII) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAM05B30X	
	15						6STF15PAM05B30X	
	25						6STF25PAM05B30X	
	37						6STF37PAM05B30X	
	50						6STF50PAM05B30X	

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

Solder pin, straight
Precision machined contacts

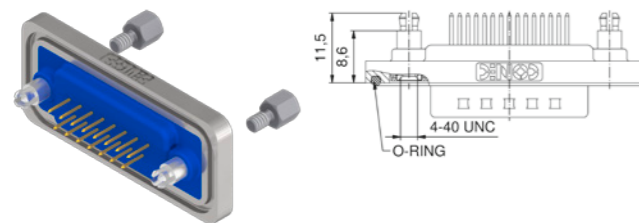
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert



No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAR03B30X
15						6STF15PAR03B30X
25						6STF25PAR03B30X
37						6STF37PAR03B30X
50						6STF50PAR03B30X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAR04B30X
15						6STF15PAR04B30X
25						6STF25PAR04B30X
37						6STF37PAR04B30X
50						6STF50PAR04B30X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAR05B30X
15						6STF15PAR05B30X
25						6STF25PAR05B30X
37						6STF37PAR05B30X
50						6STF50PAR05B30X

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



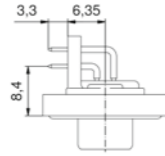
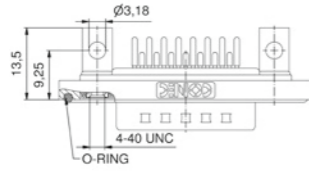
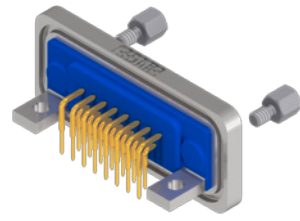
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAR03E20X
15						6STF15PAR03E20X
25						6STF25PAR03E20X
37						6STF37PAR03E20X
50						6STF50PAR03E20X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAR04E20X
15						6STF15PAR04E20X
25						6STF25PAR04E20X
37						6STF37PAR04E20X
50						6STF50PAR04E20X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAR05E20X
15						6STF15PAR05E20X
25						6STF25PAR05E20X
37						6STF37PAR05E20X
50						6STF50PAR05E20X

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

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

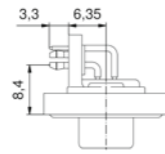
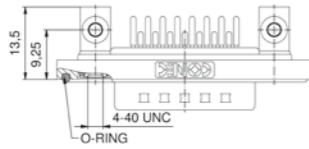
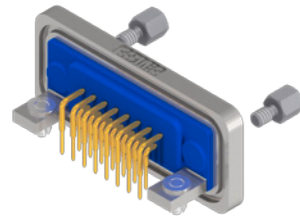
Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

4-40 UNC threaded insert



No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAT03S20X
15						6STF15PAT03S20X
25						6STF25PAT03S20X
37						6STF37PAT03S20X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAT04S20X
15						6STF15PAT04S20X
25						6STF25PAT04S20X
37						6STF37PAT04S20X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAT05S20X
15						6STF15PAT05S20X
25						6STF25PAT05S20X
37						6STF37PAT05S20X

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



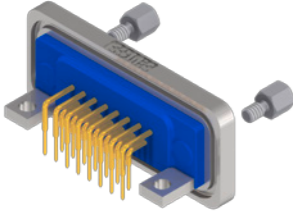
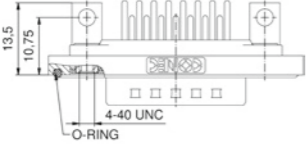
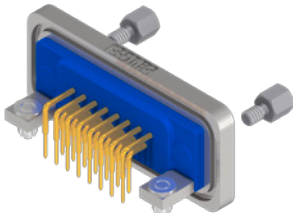
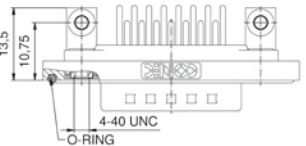
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAT03S40X
15						6STF15PAT03S40X
25						6STF25PAT03S40X
37						6STF37PAT03S40X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAT04S40X
15						6STF15PAT04S40X
25						6STF25PAT04S40X
37						6STF37PAT04S40X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAT05S40X
15						6STF15PAT05S40X
25						6STF25PAT05S40X
37						6STF37PAT05S40X

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

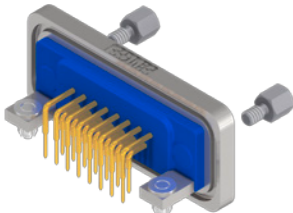
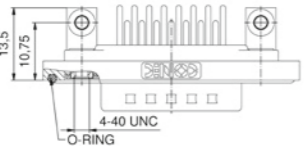

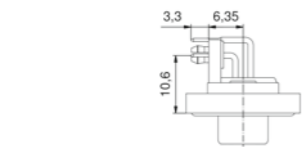
Solder pin angled, .417" / 10.6 mm
Precision machined contacts, metal bracket

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert

 		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
 	75 (UII) / 5 (CSA VDE)	100	E202784	3	370	09	6STF09PAU03R20X	
						15	6STF15PAU03R20X	
						25	6STF25PAU03R20X	
						37	6STF37PAU03R20X	
						50	6STF50PAU03R20X	
	75 (UII) / 5 (CSA VDE)	100	E202784	3	830	09	6STF09PAU04R20X	
						15	6STF15PAU04R20X	
						25	6STF25PAU04R20X	
						37	6STF37PAU04R20X	
						50	6STF50PAU04R20X	
	75 (UII) / 5 (CSA VDE)	100	E202784	3	1300	09	6STF09PAU05R20X	
						15	6STF15PAU05R20X	
						25	6STF25PAU05R20X	
						37	6STF37PAU05R20X	
						50	6STF50PAU05R20X	

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

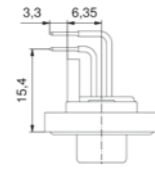
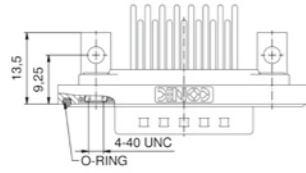
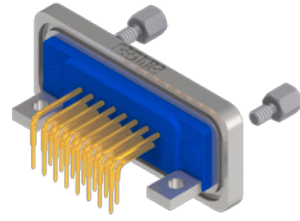
 		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
 	75 (UII) / 5 (CSA VDE)	100	E202784	3	370	09	6STF09PAU03R40X	
						15	6STF15PAU03R40X	
						25	6STF25PAU03R40X	
						37	6STF37PAU03R40X	
						50	6STF50PAU03R40X	
	75 (UII) / 5 (CSA VDE)	100	E202784	3	830	09	6STF09PAU04R40X	
						15	6STF15PAU04R40X	
						25	6STF25PAU04R40X	
						37	6STF37PAU04R40X	
						50	6STF50PAU04R40X	
	75 (UII) / 5 (CSA VDE)	100	E202784	3	1300	09	6STF09PAU05R40X	
						15	6STF15PAU05R40X	
						25	6STF25PAU05R40X	
						37	6STF37PAU05R40X	
						50	6STF50PAU05R40X	

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

Solder pin angled, .606" / 15.4 mm
Precision machined contacts, metal bracket

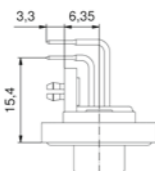
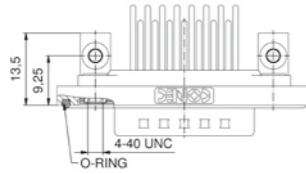
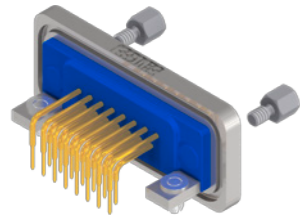
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert



No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAZ03S20X
15						6STF15PAZ03S20X
25						6STF25PAZ03S20X
37						6STF37PAZ03S20X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAZ04S20X
15						6STF15PAZ04S20X
25						6STF25PAZ04S20X
37						6STF37PAZ04S20X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAZ05S20X
15						6STF15PAZ05S20X
25						6STF25PAZ05S20X
37						6STF37PAZ05S20X

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

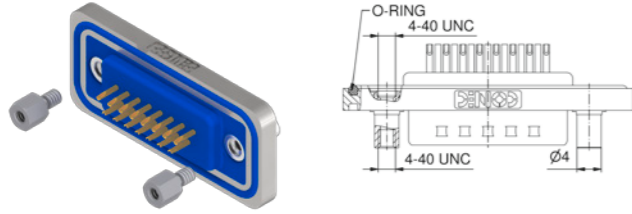


09	75 (UII) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAZ03S40X
15						6STF15PAZ03S40X
25						6STF25PAZ03S40X
37						6STF37PAZ03S40X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAZ04S40X
15						6STF15PAZ04S40X
25						6STF25PAZ04S40X
37						6STF37PAZ04S40X
09	75 (UII) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAZ05S40X
15						6STF15PAZ05S40X
25						6STF25PAZ05S40X
37						6STF37PAZ05S40X

IP67 FILTER D-SUB CONNECTORS
Plug connector, C-Filter, Standard, front panel mounting

Solder cup
Precision machined contacts, AWG 26

4-40 UNC front spacer



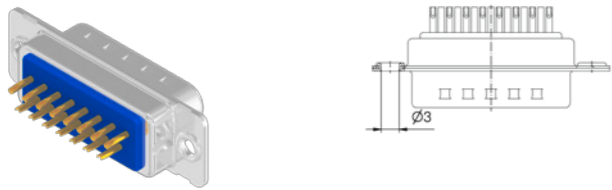
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAM03B50X
15						6STF15PAM03B50X
25						6STF25PAM03B50X
37						6STF37PAM03B50X
50						6STF50PAM03B50X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAM04B50X
15						6STF15PAM04B50X
25						6STF25PAM04B50X
37						6STF37PAM04B50X
50						6STF50PAM04B50X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAM05B50X
15						6STF15PAM05B50X
25						6STF25PAM05B50X
37						6STF37PAM05B50X
50						6STF50PAM05B50X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

Solder cup p,recision machined contacts
Hood Assembly, AWG 26

Through-hole Ø 3 mm



No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	370	4STF09PAM03A10X
15						4STF15PAM03A10X
25						4STF25PAM03A10X
37						4STF37PAM03A10X
50						4STF50PAM03A10X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	830	4STF09PAM04A10X
15						4STF15PAM04A10X
25						4STF25PAM04A10X
37						4STF37PAM04A10X
50						4STF50PAM04A10X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	1300	4STF09PAM05A10X
15						4STF15PAM05A10X
25						4STF25PAM05A10X
37						4STF37PAM05A10X
50						4STF50PAM05A10X

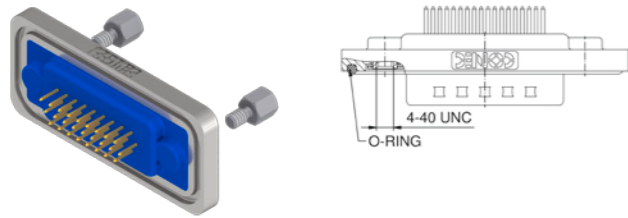
Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

IP67 FILTER D-SUB CONNECTORS
Plug connector C-Filter High Density

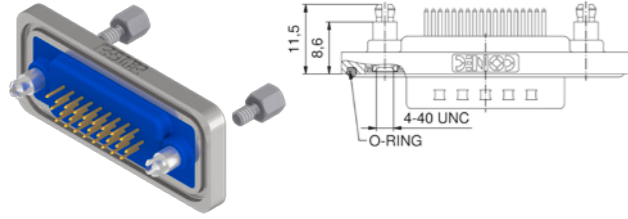
Solder pin straight
 Precision machined contact

Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
		15	3 (UI)/ 2.5 (CSA)	100	E202784	3	370	6HDF15PAR03B30X
26	6HDF26PAR03B30X							
44	6HDF44PAR03B30X							
62	6HDF62PAR03B30X							
15	3 (UI)/ 2.5 (CSA)	100	E202784	3	830	6HDF15PAR04B30X		
26						6HDF26PAR04B30X		
44						6HDF44PAR04B30X		
62						6HDF62PAR04B30X		

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

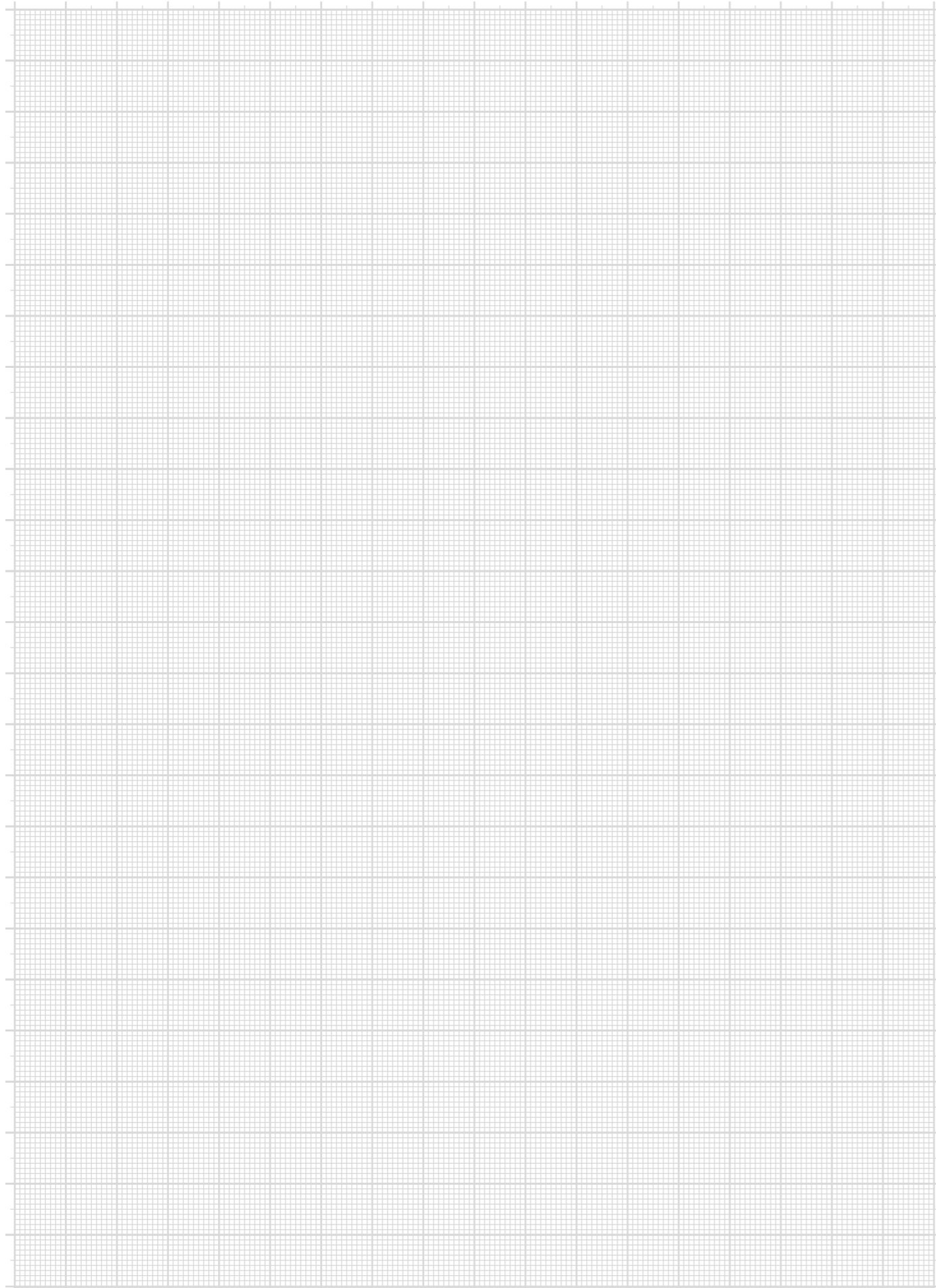
		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
		15	3 (UI)/ 2.5 (CSA)	100	E202784	3	370	6HDF15PAR03E20X
26	6HDF26PAR03E20X							
44	6HDF44PAR03E20X							
62	6HDF62PAR03E20X							
15	3 (UI)/ 2.5 (CSA)	100	E202784	3	830	6HDF15PAR04E20X		
26						6HDF26PAR04E20X		
44						6HDF44PAR04E20X		
62						6HDF62PAR04E20X		

IP67 FILTER D-SUB CONNECTORS
Plug connector C-Filter High Density

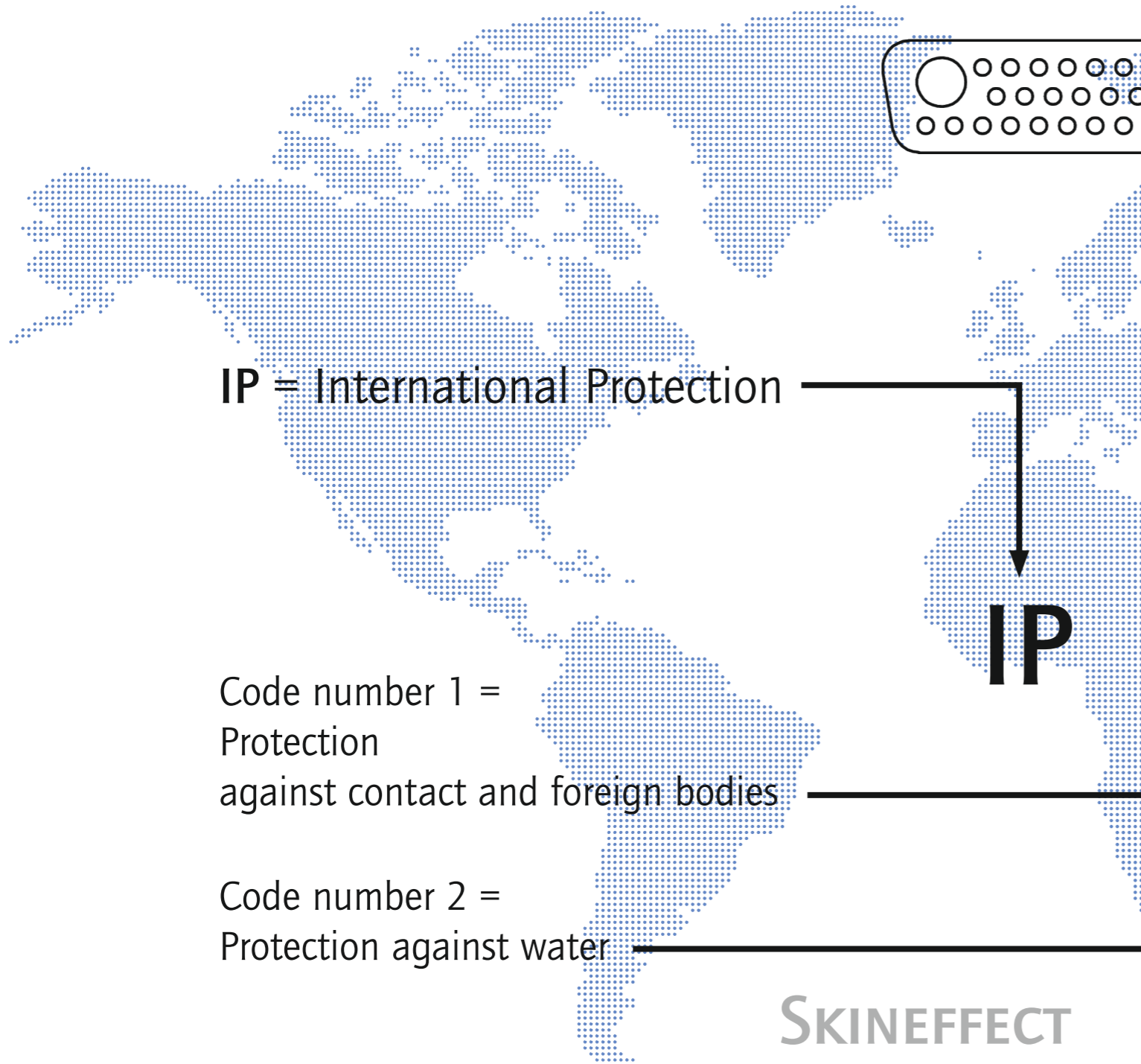
Solder pin angled .362" / 9.2 mm
 Precision machined contacts, metal bracket

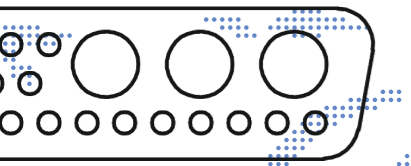
Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

4-40 UNC threaded insert		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
	15	3 (UI) / 2.5 (CSA)	100	E202784	3	370	6HDF15PAY03R20X	
	26						6HDF26PAY03R20X	
	44						6HDF44PAY03R20X	
	62						6HDF62PAY03R20X	
	15	3 (UI) / 2.5 (CSA)	100	E202784	3	830	6HDF15PAY04R20X	
	26						6HDF26PAY04R20X	
	44						6HDF44PAY04R20X	
	62						6HDF62PAY04R20X	
Clip for PCB 1.6 mm, 4-40 UNC threaded insert								
	15	3 (UI) / 2.5 (CSA)	100	E202784	3	370	6HDF15PAY03R40X	
	26						6HDF26PAY03R40X	
	44						6HDF44PAY03R40X	
	62						6HDF62PAY03R40X	
	15	3 (UI) / 2.5 (CSA)	100	E202784	3	830	6HDF15PAY04R40X	
	26						6HDF26PAY04R40X	
	44						6HDF44PAY04R40X	
	62						6HDF62PAY04R40X	



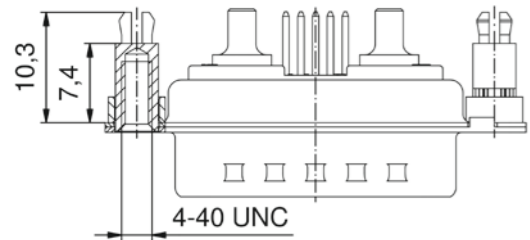
TECHNICAL INFORMATION





67

SOLDER
PARAMETER



TECHNICAL INFORMATIONS

Protection classes

Norm IEC 60529

IP = International Protection

Code number 1 =
Protection against
contact and foreign bodies










Code number 2 =
Protection against water

IP 67

For safety reasons, connectors have to be protected against external influences like dust, foreign objects, direct contact, moisture and water. For industrial connectors, this protection is provided by their housings with their latching devices and sealed cable entries. The protection classes are also called IP Codes. The abbreviation IP stands for "ingress protection". Standard IEC 60529 specifies and divides the degree of protection into several classes.

The protection classes refer to protection against contact and ingress of solid foreign objects and dust (indicated by the first code digit of the IP Code) as well as against damaging ingress of water (indicated by the second code digit of the IP Code)

PROTECTION CLASS OVERVIEW

First code digit	Protection against ingress of foreign objects Protection against contact	Second code digit	Protection against water	Examples
0	Not protected	0	Not protected	
1	Protection against ingress of solid foreign objects with diameters > than 50 mm Protected against access with the back of the hand	1	Protection against vertically dripping water	
2	Protection against ingress of solid foreign objects with diameters > than 12.5 mm Protected against access with a finger	2	Protection against dripping water with 15° inclination	
3	Protection against ingress of solid foreign objects with diameters > than 2.5 mm Protected against access with a tool	3	Protection against spray water inclined up to 60°	
4	Protection against ingress of solid foreign objects with diameters > than 1 mm Protected against access with a wire	4	Protection against splashing water	
5	Protected against dust in harmful quantities Complete protection against contact	5	Protection against jet water	
6	Dust-proof Complete protection against contact	6	Protection against powerful jets of water	
		7	Protection against temporary immersion (max. water depth 1 m)	
		8	Protection against constant immersion beyond 1 m An additionally indicated number stands for the maximum immersion depth in meters.	
		9K	Protection against very strong jets of water, e.g. from high-pressure steam jet cleaners for vehicles.	

TECHNICAL INFORMATION

Electrotechnical information for coaxial and high voltage contacts

Skin Effect

Alternating currents do not uniformly occupy the entire cross section of the conductor, rather inductance effect in the conductor deflects the current towards the surface of the conductor, whereby this deflection increases with the frequency. The resistive attenuation of a transmission line increases with the frequency as a result of this skin effect. The skin depth (equivalent thickness of the layer in which current flows) can be determined using

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

- f = frequency
- σ = conductivity of the conductor material
- $\sigma_{Ag} = 62 \times 10^6 \text{ S/m}$
- $\sigma_{Cu} = 58 \times 10^6 \text{ S/m}$
- $\mu_0 = 1,256 \cdot 10^{-6} \text{ Vs / Am}$
- μ_r ... relative permeability constant for the employed material

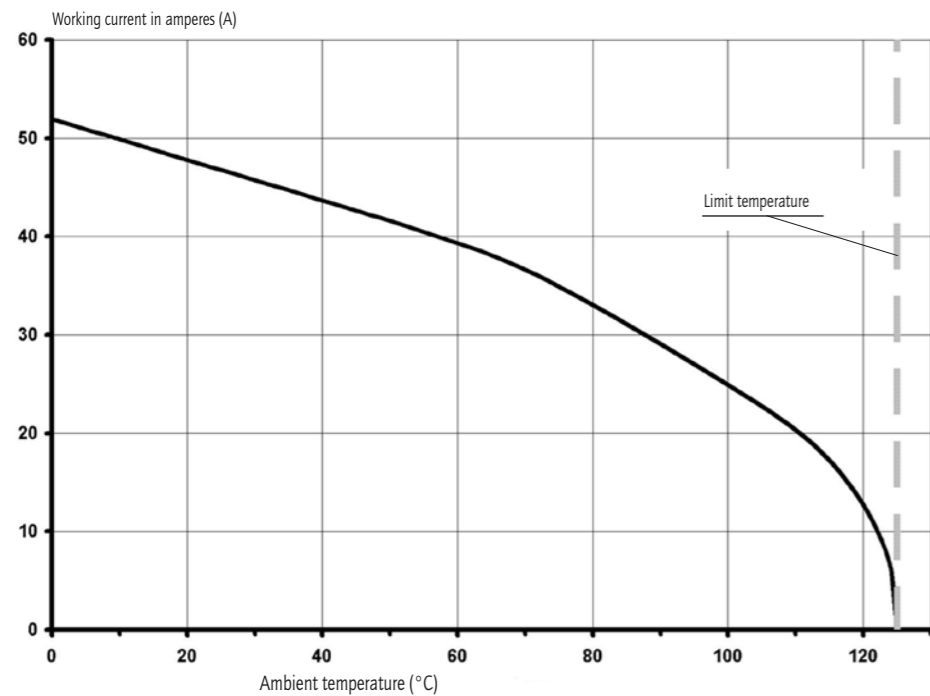
VSWR-Value

The ratio between the value of the largest and the smallest voltages on a loss-free line is known as the ripple or voltage standing wave ratio s (where $1 \leq s < \infty$). The reciprocal value of the VSWR is known as the inverse voltage standing wave ratio m (where $0 < m \leq 1$). (VSWR = Voltage standing wave ratio)

The value of s is linked with the reflection coefficient r on a transmission line according to the equation

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

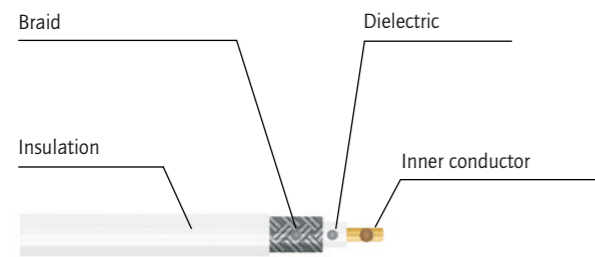
DeRating Curve



All connectors in the Water Resistant Combination D-Subminiature series are fully loaded with contacts. They are equipped with either signal, high voltage, high power or coaxial contacts according to requirements. Our production standard requires that all connectors are fully loaded. Connectors 3W3, 5W5 and 8W8 female: Socket contacts are fingerprobe safe according to UL1950 and CSA 22.2.950 specifications.

TECHNICAL INFORMATIONS

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



Strip the wire
Using dimensions shown
on the individual product
drawings



Slide sleeve over coax cable



Crimp the inner contact on
the inner conductor



Snap the inner contact
into the outer contact



Slide braid over outer
contact



Crimp the sleeve on to
outer contact

TECHNICAL INFORMATIONS

Solder profile

Recommended wave - solder parameters for CONEC connectors

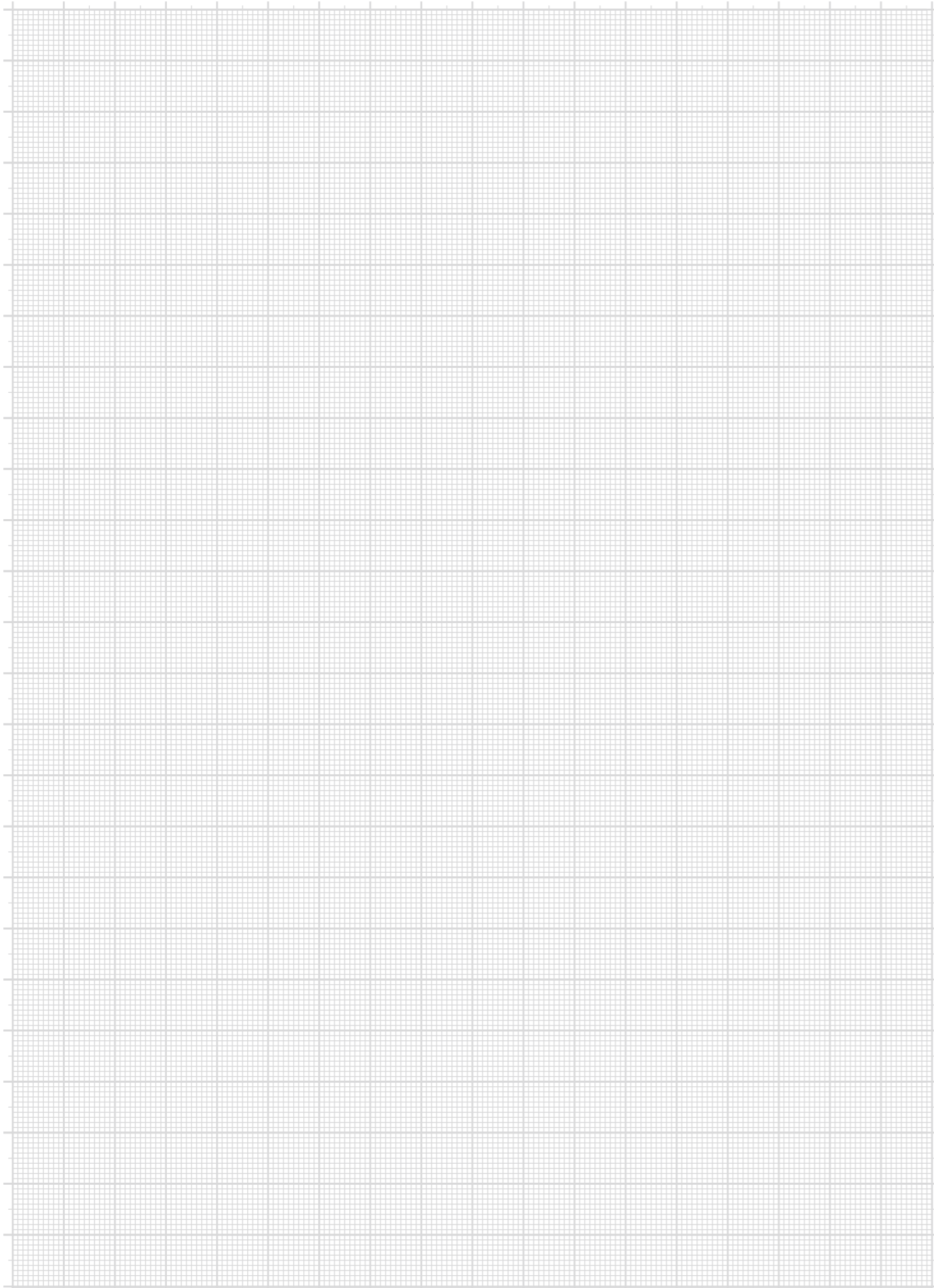
Connector Type	Preheating		Solder termination dipping parameters	
	max. temperature	max. duration	max. solder bath temperature	max. terminal immersion time
D-SUB Standard	100 °C	120 s	260 °C	5 s
D-SUB High Density	100 °C	120 s	260 °C	5 s
Combination D-SUB	100 °C	120 s	260 °C	5 s
Filter D-SUB	100 °C	30 s	260 °C	5 s
Filter Combination D-SUB	120 °C	120 s	260 °C	5 s
IP67 D-SUB (Standard + HD)	120 °C	120 s	240 °C	5 s
IP67 D-SUB Solid Body (Standard + HD)	150 °C	180 s	265 °C	8 s
IP67 D-SUB CONEC SlimCon (Standard + HD)	150 °C	180 s	265 °C	8 s
IP67 Filter D-SUB (Standard + HD)	100 °C	30 s	260 °C	5 s
IP67 Filter D-SUB CONEC SlimCon	150 °C	180 s	265 °C	8 s
IP67 D-SUB Combination	120 °C	120 s	240 °C	5 s
IP67 D-SUB Combination Solid Body	150 °C	180 s	265 °C	8 s
IP67 D-SUB Combination CONEC SlimCon	150 °C	180 s	265 °C	8 s

Technical specifications are subject to change without notice

TECHNICAL INFORMATION

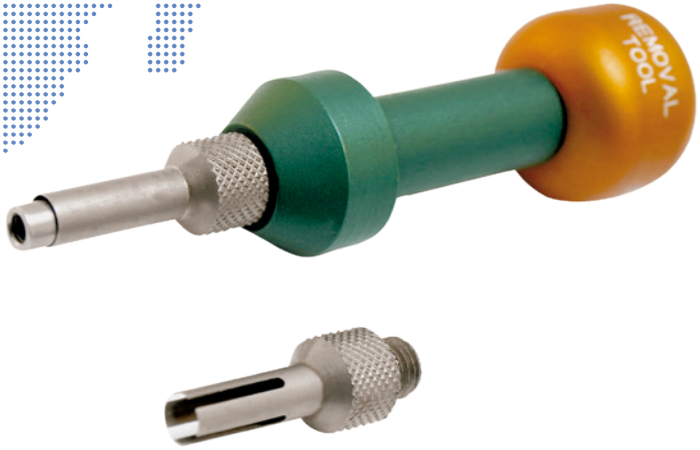
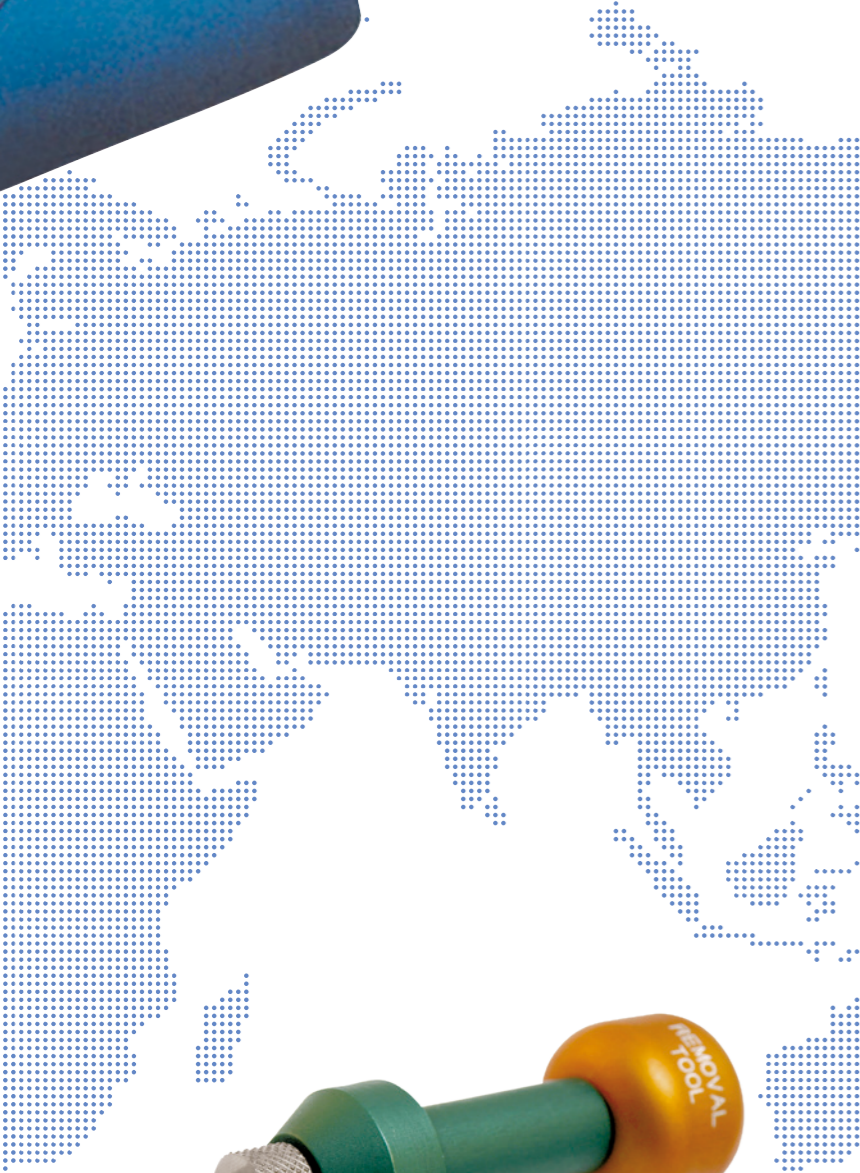
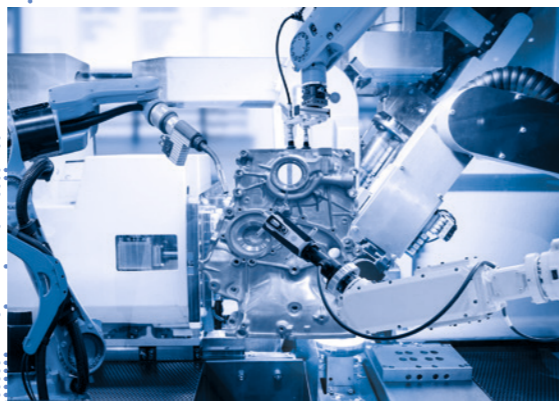
Conversion table for units µm/mm/inch

µm 1/1000 mm	µinch 1/1000 inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
0,10	4	3,30	.130	10,16	.400	19,50	.768	30,90	1.217	49,50	1.949
0,20	8	3,40	.134	10,26	.402	19,70	.776	31,00	1.220	49,90	1.965
0,25	10	3,50	.138	10,36	.406	19,80	.780	31,20	1.228	50,10	1.972
0,30	12	3,60	.142	10,56	.413	19,90	.783	31,50	1.240	50,30	1.980
0,50	20	3,70	.146	10,66	.417	20,00	.787	31,70	1.248	50,50	1.988
0,70	28	3,80	.150	10,76	.421	20,10	.791	32,00	1.260	50,70	1.996
0,75	30	3,81	.150	11,00	.433	20,30	.799	32,20	1.268	50,80	2.000
0,80	32	3,90	.154	11,20	.441	20,32	.800	32,30	1.272	51,40	2.024
1,00	39	4,00	.158	11,40	.449	20,50	.807	32,50	1.280	51,50	2.028
1,27	50	4,10	.161	11,50	.453	21,00	.827	32,80	1.291	52,00	2.047
2,00	79	4,20	.165	11,60	.457	21,10	.831	33,00	1.299	52,30	2.059
2,50	98	4,30	.169	11,90	.469	21,70	.854	33,10	1.303	52,80	2.079
3,00	118	4,50	.177	12,00	.472	22,00	.866	33,30	1.311	53,00	2.087
4,00	157	4,70	.185	12,20	.480	22,10	.870	33,80	1.331	53,20	2.095
5,00	197	4,90	.193	12,30	.484	22,20	.874	34,00	1.339	53,80	2.118
		5,00	.197	12,40	.488	22,30	.878	34,20	1.346	54,00	2.126
mm	inch	5,08	.200	12,50	.492	22,40	.882	34,40	1.354	54,20	2.134
0,10	.004	5,10	.201	12,70	.500	22,50	.886	35,00	1.378	54,90	2.161
0,20	.008	5,20	.205	12,90	.508	22,60	.890	35,40	1.394	55,00	2.165
0,25	.012	5,30	.209	13,00	.512	22,80	.898	35,50	1.398	55,40	2.181
0,35	.014	5,40	.213	13,10	.516	22,86	.900	35,56	1.400	55,70	2.193
0,40	.016	5,50	.217	13,20	.520	22,90	.902	35,60	1.402	56,60	2.228
0,45	.018	5,60	.220	13,50	.532	23,00	.906	36,00	1.417	57,40	2.260
0,50	.020	5,70	.224	13,60	.535	23,10	.909	36,50	1.437	57,80	2.276
0,55	.022	5,80	.228	13,70	.539	23,30	.917	36,60	1.441	57,90	2.280
0,60	.024	6,00	.236	13,90	.547	23,50	.925	36,70	1.445	58,42	2.300
0,64	.025	6,10	.240	14,00	.551	24,00	.945	37,00	1.457	59,00	2.323
0,65	.026	6,40	.252	14,30	.563	24,30	.957	37,30	1.469	59,20	2.331
0,70	.028	6,50	.256	14,40	.567	24,60	.969	37,50	1.476	59,80	2.354
0,75	.030	6,60	.260	14,50	.571	24,90	.980	37,60	1.480	59,90	2.358
0,80	.032	6,70	.264	14,70	.579	25,00	.984	37,70	1.484	60,00	2.362
0,85	.034	6,80	.268	14,80	.583	25,10	.998	37,90	1.492	60,96	2.400
0,90	.035	6,90	.272	14,90	.587	25,40	1.000	38,00	1.496	61,10	2.406
1,00	.039	7,00	.276	14,98	.590	25,60	1.008	38,10	1.500	62,00	2.441
1,20	.047	7,10	.280	15,00	.591	25,90	1.020	39,00	1.535	63,00	2.480
1,25	.049	7,20	.283	15,20	.598	26,00	1.024	39,20	1.543	63,50	2.500
1,27	.050	7,40	.291	15,24	.600	26,30	1.035	39,30	1.547	64,00	2.520
1,30	.051	7,50	.295	15,40	.606	26,60	1.047	39,90	1.571	65,00	2.560
1,35	.053	7,60	.299	15,50	.610	26,70	1.051	40,00	1.575	67,00	2.638
1,40	.055	7,62	.300	15,60	.614	27,00	1.063	40,30	1.587	68,00	2.677
1,45	.057	7,70	.303	15,90	.626	27,20	1.071	40,40	1.591	69,00	2.717
1,50	.059	7,80	.307	16,00	.630	27,40	1.079	40,60	1.598	70,00	2.756
1,60	.063	7,98	.314	16,20	.638	27,50	1.093	41,00	1.614	71,00	2.795
1,70	.067	8,00	.315	16,50	.650	27,90	1.098	41,60	1.638	74,00	2.913
1,80	.071	8,18	.318	16,60	.654	27,94	1.100	42,70	1.681	75,00	2.953
1,85	.073	8,20	.323	16,80	.661	28,00	1.102	43,18	1.700	76,20	3.000
1,90	.075	8,30	.327	17,00	.669	28,20	1.110	44,20	1.740	77,00	3.032
2,00	.079	8,40	.331	17,20	.677	28,50	1.122	44,80	1.764	78,74	3.100
2,10	.083	8,50	.335	17,30	.681	28,70	1.130	45,80	1.803	80,00	3.150
2,20	.087	8,60	.339	17,50	.689	29,00	1.142	46,30	1.823	81,28	3.200
2,30	.091	8,90	.350	17,60	.693	29,20	1.150	46,70	1.839	84,00	3.307
2,40	.095	9,00	.354	17,70	.697	29,40	1.158	47,00	1.850	85,00	3.346
2,50	.098	9,10	.358	17,78	.700	29,50	1.161	47,20	1.858	86,36	3.400
2,54	.100	9,20	.362	17,80	.701	29,70	1.169	47,30	1.862	88,90	3.500
2,60	.102	9,30	.366	17,90	.705	29,90	1.177	47,50	1.870	90,00	3.543
2,70	.106	9,40	.370	18,00	.709	30,00	1.181	47,80	1.882	91,44	3.600
2,80	.110	9,50	.374	18,10	.713	30,20	1.189	48,00	1.890	94,00	3.701
2,84	.112	9,60	.378	18,30	.721	30,40	1.197	48,10	1.894	95,00	3.740
2,90	.114	9,70	.382	18,60	.732	30,48	1.200	48,26	1.900	100,00	3.937
3,00	.118	9,90	.390	19,00	.748	30,50	1.201	48,80	1.921	110,00	4.331
3,10	.122	10,00	.395	19,20	.756	30,80	1.213	49,10	1.933	120,00	4.724





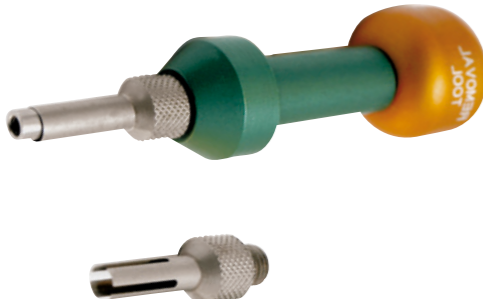
INSTALLATION AND ASSEMBLY TOOLS







INSTALLATION AND ASSEMBLY TOOLS

Installing/Removal tools

for D-SUB connectors with crimp contacts	Description	Part. No.
	Insertion and extraction tool	360X12009X
for D-SUB High Density connectors with crimp contacts		
	Insertion tool	360X10339X
	removal tool	360X10349X
for D-SUB Combination Connectors with coaxial, high power and high voltage contacts		
	Extraction tool	360X10219X

INSTALLATION AND ASSEMBLY TOOLS



Crimp tools

for D-SUB standard connectors with stamped contacts	Description	Part. No.
	Crimp tool	360X10079X
for D-SUB standard connectors with stamped contacts		
	Spool crimp tool for stamped contacts on reel	360X10069X



INSTALLATION AND ASSEMBLY TOOLS

Crimp tools and inserts

for D-SUB, HD-SUB connectors with crimp contacts and D-SUB combination connectors with coaxial contacts (inner conductor)	Description	Part. No.
	Hand crimp tool	360X10329X
	Inserts (Part No. see following charts)	

Inserts for use with hand crimp tool 360X10329X D-SUB Standard and High Density contacts



Part No. plug contacts	Part No. socket contacts	Part No. Crimp insert	AWG (Selector Setting)	AWG (Selector Setting)	AWG (Selector Setting)	AWG (Selector Setting)
161A18299X	162A18709X	360X20069X	20 (7)	22 (6)	24 (5)	
161A18309X	162A18719X	360X20069X	24 (7)	26 (6)	28 (5)	
161A18009X	162A18419X	360X10629X	22 (4)	24 (3)	26 (2)	28 (1)
	16-000693 (closed entry)	360X10629X	22 (4)	24 (3)	26 (2)	28 (1)
131C15019X	132C15019X	360X20039X	20 (7)	22 (6)	24 (5)	
131C15029X	132C15029X	360X20039X	24 (7)	26 (6)	28 (5)	

Inserts for use with hand crimp tool 360X0329X D-SUB Combination coaxial contacts (inner conductor)

Part No. plug contacts	Part No. socket contacts	Part No. Crimp insert	Selector setting			
131J21019X	132J21019X	360X11049X	depending on wire use selector setting			
131J21029X	132J21029X	360X11049X				
131J21039X	132J21039X	360X11049X	AWG		Selector setting	
131J23019X	132J23019X	360X11059X	24	→	5	
131J31019X	132J31019X	360X11049X	26	→	5	
131J31029X	132J31029X	360X11049X	28	→	4	
131J33019X	132J33019X	360X11059X	30	→	3	

INSTALLATION AND ASSEMBLY TOOLS


Crimp tools and inserts

for D-SUB standard connectors with stamped contacts	Description	Part. No.
	Hand crimp tool	360X10409X
	Insert for above hand crimp tool	360X20029X

Selector setting for High Power contacts


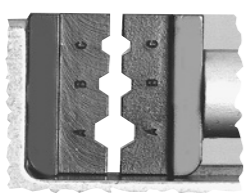
Contact Type	Part. no. plug contacts	Part. no. socket contacts	Crimp insert	AWG (Selector Setting)	AWG (Selector Setting)	AWG (Selector Setting)
D-Sub Combination High power contacts	131C11019X	132C11019X	360X20029X	16 (3)	18 (2)	20 (2)
	131C11029X	132C11029X	360X20029X	12 (5)	14 (4)	
	131C11039X	132C11039X	360X20029X	10 (7)	12 (6)	
	131C11049X	132C11049X	360X20029X	8 (7)	10 (6)	

for D-SUB Combination connectors with angled high power contacts

	Hand crimp tool	360X12269X
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INSTALLATION AND ASSEMBLY TOOLS

Crimp tools and inserts

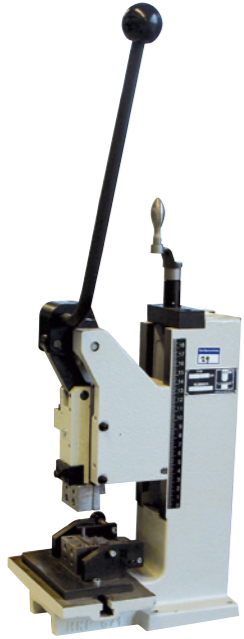

for D-SUB combination connectors with coax contacts (outer conductor)	Description	Part. No.
	Hand crimp tool	360X10519X
	Inserts (Part No. see following chart)	

Inserts for use with hand crimp tool 360 X0329 X/D-SUB Combination coac contacts (outer conductor)

Part No. plug contacts	Part No. socket contacts	Part No. Crimp insert	Inser cavity
131J20019X	132J20019X	360X11019X	C
131J20029X	132J20029X	360X11019X	B
131J20039X	132J20039X	360X11019X	A
131J20049X	132J20049X	360X11029X	A
131J20059X	132J20059X	360X11039X	B
131J21019X	132J21019X	360X11019X	B
131J21029X	132J21029X	360X11039X	B
131J21039X	132J21039X	360X11029X	A
131J22019X	132J22019X	360X11019X	B
131J22029X	132J22029X	360X11019X	C
131J22039X	132J22039X	360X11039X	B
131J23019X	132J23019X	360X11019X	B
131J30019X	132J30019X	360X11019X	B
131J30029X	132J30029X	360X11019X	B
131J31019X	132J31019X	360X11019X	B
131J31029X	132J31029X	360X11019X	A
131J33019X	132J33019X	360X11019X	B

INSTALLATION AND ASSEMBLY TOOLS

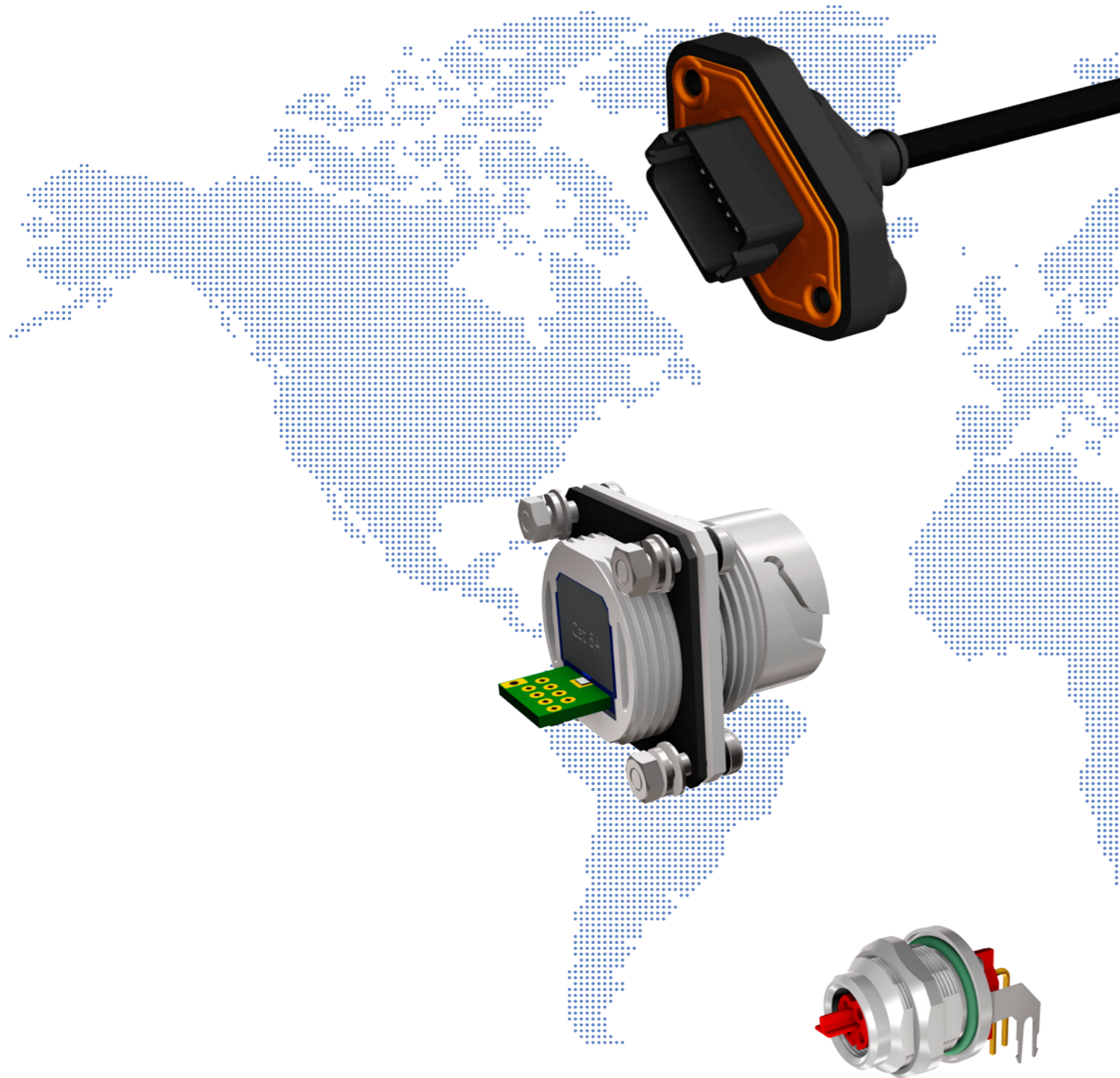
Manually operated lever press + press in tool sets

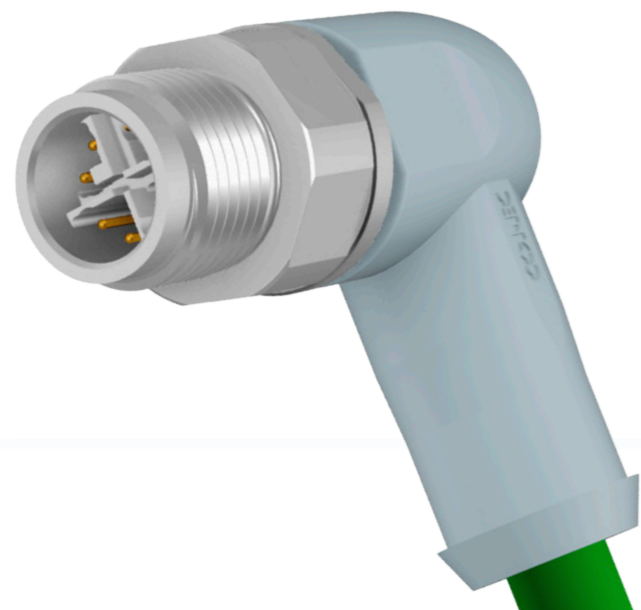
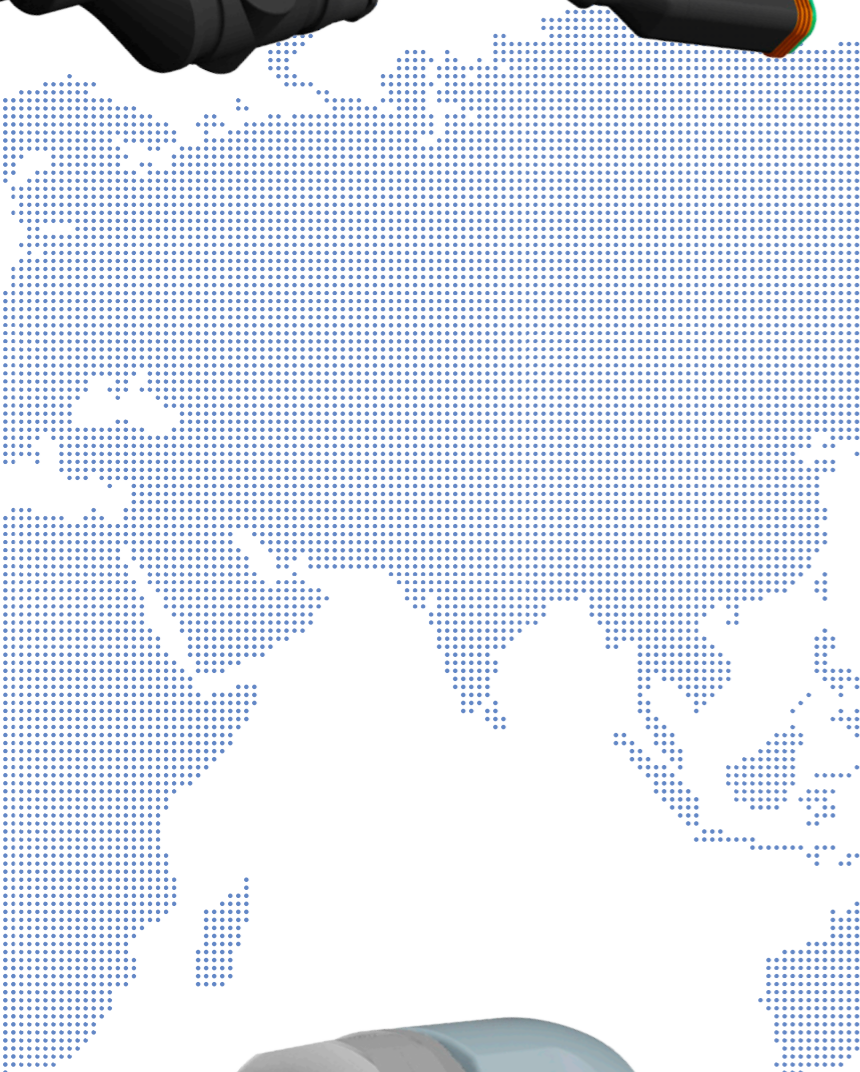
for D-SUB combination connectors with coax contacts (outer conductor)	Description	Part. No.
	Manually operated lever press	360X12369X
	Press in tool sets (Part No. see following chart)	

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

Socket Connector	Type	Part. No.
Combination D-SUB Connectors	2W2C	360X00159A
Combination D-SUB Connectors	3W3	360X00169A
Combination D-SUB Connectors	3W3C	360X00169A
Combination D-SUB Connectors	5W5	360X00179A
Combination D-SUB Connectors	8W8	360X00189A
Plug Connector	9-pos./15-pos. HD	360X15019X
Plug Connector	15-pos./26-pos. HD	360X15029X
Plug Connector	25-pos./44-pos. HD	360X15039X
Plug Connector	37-pos./62-pos. HD	360X15049X
Plug Connector	50-pos./78-pos. HD	360X15059X
Socket Connector	9-pos./15-pos. HD	360X15069X
Socket Connector	15-pos./26-pos. HD	360X15079X
Socket Connector	25-pos./44-pos. HD	360X15089X
Socket Connector	37-pos./62-pos. HD	360X15099X
Socket Connector	50-pos./78-pos. HD	360X15109X

ADDITIONAL PRODUCT CATEGORIES





ADDITIONAL CONEC PRODUCT CATEGORIES

IP67 Power Bayonet



Details

- No. of poles: 2, 2+PE
- Receptacle male and female
- Cable connector male and female
- Degree of protection: IP67

Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Cable to cable connection available
- High current carrying capability

IP67 Mini USB, USB 2.0, USB 3.0 connectors



Details

- Type: USB 3.0 Type A
- Type: USB 2.0 Type A, Mini USB Type A
- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet, M28
- Termination: soldering, PCB
- Front- and back panel mounting
- Adapters
- Degree of protection: IP67
- Degree of protection: IP20 (patch cord)

Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Light-weight versions ideal for portable devices

ADDITIONAL CONEC PRODUCT CATEGORIES

IP67 RJ45 Industrial Ethernet connectors



Details

- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet, M28
- Termination: soldering, IDC, screw
- Front- and back panel mounting
- UTP Cat 5e, STP Cat 5e, S/STP Cat 6A
- Degree of protection: IP67
- Degree of protection: IP20 (patch cord)

Benefits

- Use in harsh environments
- Easy and secure locking by bayonet lock
- Front- and back panel mounting
- Light-weight versions
- Colored interface encoding available
- Cat. 6A variants up to 10 GBit /s

IP67 Fiber Optic LC Duplex



Details

- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet
- Single Mode, Multi Mode, APC Single Mode
- Front- and back panel mounting
- Degree of protection: IP67

Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Extended temperature range
- Interference-free safe data transmission
- Cost efficiency by integrated IP67 protection

ADDITIONAL CONEC PRODUCT CATEGORIES

CONEC Hybrid connectors



Details

- Size: B12, B17, B23, B40
- Coding: 1, 2, 3, 4, 5, 6
- Number of poles power: 2, 2+PE, 3+PE, 4+PE, 3+PE+2
- Number of poles data: 4 (transmission according IEC11801 Cat 5)
- Configuration: Connector axial overmoulded, Connector axial field attachable, sockets axial, sockets angled rotatable (B23)
- Bayonet locking
- Degree of protection: IP67

Benefits

- Space-saving by transmitting data and power with one connector
- Quick and secure connection by bayonet locking
- Compact and robust design
- Adjustable direction of outlet (B23 receptacle angled)

Circular connectors overmoulded (signal transmission)



Details

- Size: M8x1, M12x1, 7/8", Rund24
- Coding: A, B, C
- Number of poles: 3, 4, 5, 6, 8, 12, 2+PE, 3+PE, 4+PE
- Configuration: axial or angled, shielded or unshielded
- Optional with LED
- Termination: screw-, snap-, screw-/snap-termination
- Degree of protection: IP67

Benefits

- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Application-related cable qualities

ADDITIONAL CONEC PRODUCT CATEGORIES

Circular connectors field attachable (signal transmission)



Details

- Size: M8x1, M12x1, 7/8", Rund24
- Coding: A
- Number of poles: 3, 4, 5, 8, 2+PE, 3+PE, 4+PE, 6+PE
- Configuration: axial or angled, shielded or unshielded
- Termination: solder-, clamp-, screw-, crimp termination
- Degree of protection: IP67

Benefits

- Mating can be controlled with torque wrench
- Easy field attachable without special tools
- M12x1 cable cross section 1.5 mm² (Crimp max. 1.0 mm²)
- Vibration proof screw lock

Sockets (signal transmission)



Details

- Size: M8x1, M12x1, 7/8"
- Coding: A, B
- Number of poles: 3, 4, 5, 6, 8, 12, 2+PE, 4+PE
- Male socket, female socket
- Configuration: axial or angled
- Field attachable crimp version
- Assembly: Protection cap
- Front and back panel mounting
- Degree of protection: IP67

Benefits

- Colored contact insulators to avoid wrong plugging
- High number of poles with minimum space requirements
- Direct circuit board mounting
- Protection of unused interfaces

ADDITIONAL CONEC PRODUCT CATEGORIES

Sockets SMT/THR (signal transmission)



Details

- Size: M8x1 SMT/THR, M12x1 SMT
- Coding: A, B
- Number of poles: 3, 4, 5, 8
- Male socket, female socket
- Configuration: axial, shielded or unshielded
- Front and back panel mounting
- Degree of protection: IP67

Benefits

- Automated assembly (SMT)
- High number of poles with minimum space requirements
- Low forces on the board
- Low contact resistance on the shielding
- Large tolerance compensation between board and housing

Panel plugs



Details

- Size: M8x1, M12x1
- Coding: A
- Number of poles: 3, 4, 5, 8
- With LED preparation
- Configuration: axial
- Housing configuration: Plastic, metal, metal/plastic transparent
- Termination: Solder-, print termination
- Degree of protection: IP67

Benefits

- Easy installation in housing by pushing in
- Low installation height
- Various connection possibilities

ADDITIONAL CONEC PRODUCT CATEGORIES

Power connectors



Details

- Size: M12x1, 7/8", Rund24
- Coding: L, S, T
- Number of poles: 3, 4, 2+PE, 3+PE, 4+PE, 4+FE, 6+PE
- Configuration: axial or angled
- Degree of protection: IP67

Benefits

- Transmission of high currents
- Mating can be controlled with torque wrench
- Defined tightening torque
- Polarity reversal prevented with coded insulators
- Robust design with minimum space requirements

High Temperature/Food & Beverage connectors



Details

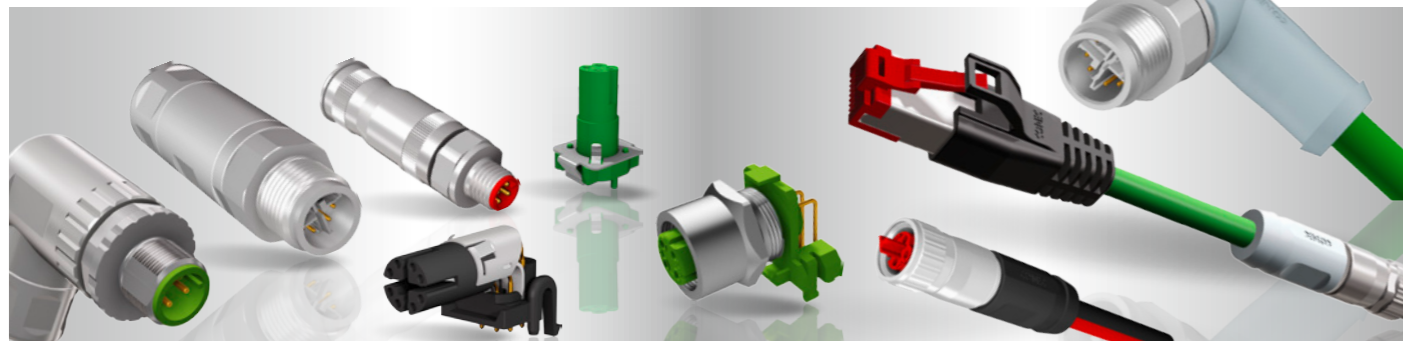
- Size: M8x1, M12x1
- Coding: A
- Number of poles: 3, 4, 5
- Female connector, male connector
- Optional with LED
- Temperature-resistant up to 125 °C (HT)
- Degree of protection: IP65 (HT), IP67/IP69K (F&B)

Benefits

- Resistance to commercial aggressive cleaning agents
- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Use in constantly high ambient temperatures

ADDITIONAL CONEC PRODUCT CATEGORIES

Connectors for BUS-Systems



Details

- Size: M8x1, M12x1, 7/8", RJ45
- Coding: B, D, P, X
- Number of poles: 4, 8
- Profibus DP
- DeviceNet
- Industrial Ethernet 100 MHz
- EtherCAT P
- 10 Gigabit Ethernet
- Configuration: axial or angled

Benefits

- Robust design with minimum space requirements
- Vibration proof screw lock
- SMT versions for automatic placement
- High data transmission up to 10 Gbit/s (X-cod.)
- Flexible cabling in the field by field attachable variants

Junction systems



Details

- Size: M8x1, M12x1
- Number of poles: 3, 4, 5, 8, 4+PE
- 1:1 wiring
- Signal distribution
- Assembly: retaining clip, protection caps
- Degree of protection: IP67

Benefits

- Reduction of installation costs
- Space saving design
- Robust design with minimum space requirements
- Signals and power are transmitted by standardized plug systems
- Back-to-back assembly with retaining clip

ADDITIONAL CONEC PRODUCT CATEGORIES

DT, Superseal and ISOBUS series



Details

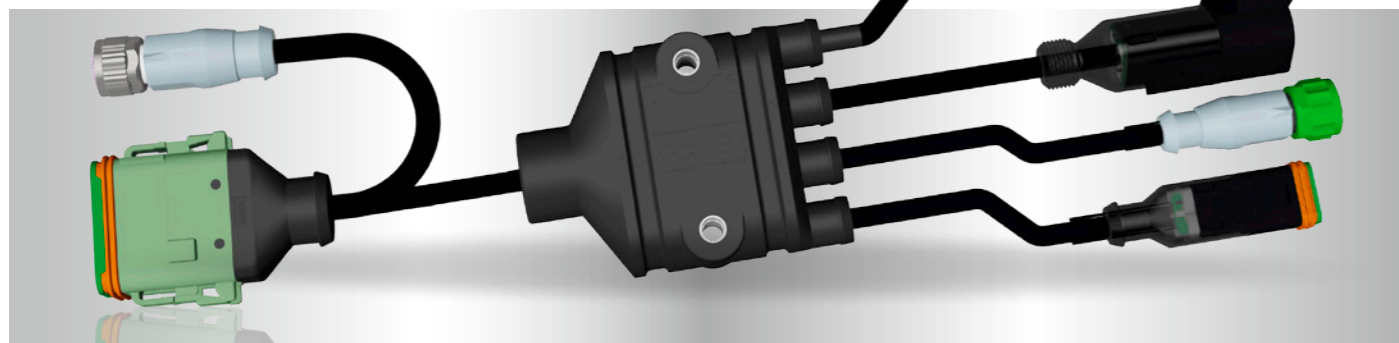
- No. of poles: 2-, 3-, 4-, 6-, 8-, 12-pos. (DT-Series)
2-, 3-, 4-, 5-, 6-pos. (Superseal), 9-pos. (ISOBUS)
- PUR Cable 0.75 mm²/AWG 18
- Optional with M12-thread (DT-Series)
- Optional with LED and protection circuit (DT-Series: 2- und 3-pos.)
- Available with single wire (2-pos. DT-Series and Superseal)
- Protection cap (DT- and Superseal-Series)
- Available with double outlet (DT 2-, 4-, 6-, 8-pos.)
- Gender: Female, male

Benefits

- Compact design
- With/without LED and protection circuit
- Status indication via LED, visible from all sides (DT-Series)
- Attachment/mounting of cable protection hose (DT-/Superseal-Series)
- The overmoulding provides an overall IP67 protection from the housing into the cable

ADDITIONAL CONEC PRODUCT CATEGORIES

Junction system Type S, M, L



Details

Type S

- 66 x 30 x 15 mm
- Cable inlets: 1, 2
- Cable outlets: 1, 2
- Max. Cable diameter inlets: 8 mm
- Max. Cable diameter outlets: 8 mm

Type M

- 66 x 40 x 15 mm
- Cable inlets: 1, 2, 3
- Cable outlets: 1, 2, 3
- Max. Cable diameter inlets: 11 mm
- Max. Cable diameter outlets: 8 mm

Type L

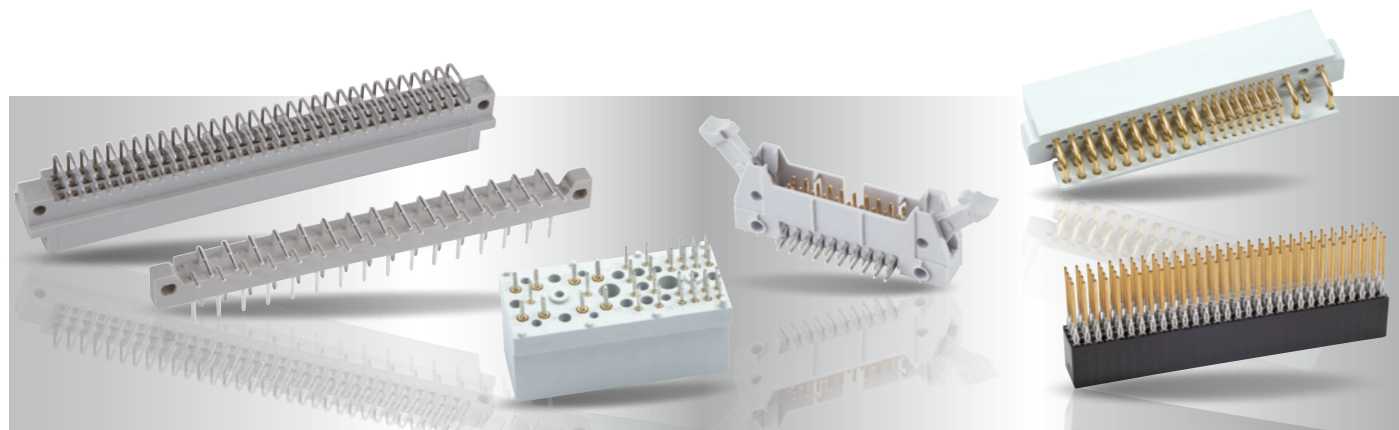
- 76 x 55 x 22 mm
- Cable inlets: 1, 3, 4
- Cable outlets: 3, 4
- Max. Cable diameter inlets: 17 mm
- Max. Cable diameter outlets: 13 mm (3 exits),
8 mm (4 exits)

Benefits

- Reduction of installation costs
- Fully protected cable harness
- Space saving design
- Robust design with minimum space requirements
- Different mounting options
- Degree of protection: IP67

ADDITIONAL CONEC PRODUCT CATEGORIES

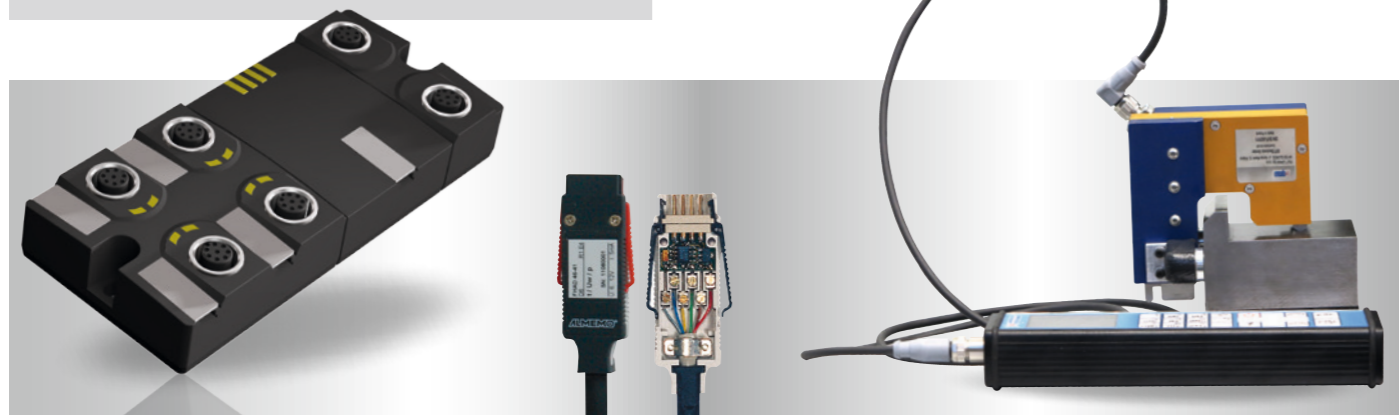
PCB connectors



Overview

- DIN EN 60603-2
- DIN 41617
- AdvancedTCA
- Flat cable connector
- CompactPCI
- PC104/PC104Plus

Customized products



Many things are possible

Are you looking for application-specific solutions?

Please contact us – our expert team will support you from the product concept up to optimised serial production.

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

CONEC[®]

TECHNOLOGY IN CONNECTORS[™]

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

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

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

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

CONEC Germany, Lippstadt



CONEC Canada, Brampton



CONEC USA, Garner

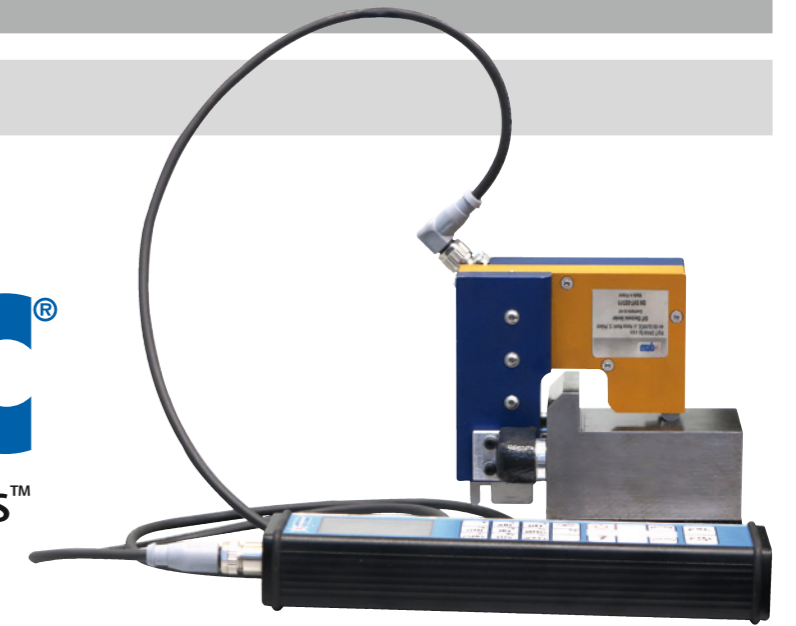


CUSTOMIZED PRODUCTS

Application-specific-solutions

CONEC[®]

TECHNOLOGY IN CONNECTORS[™]



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

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

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





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