D-SUB/IP67 D-SUB CONNECTORS

CONEC®

TECHNOLOGY IN CONNECTORS™



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

TECHNOLOGY IN CONNECTORS™

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

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

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

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

CONEC Germany, Lippstadt



CONEC Canada, Brampton



CONEC USA, Garner



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

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

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



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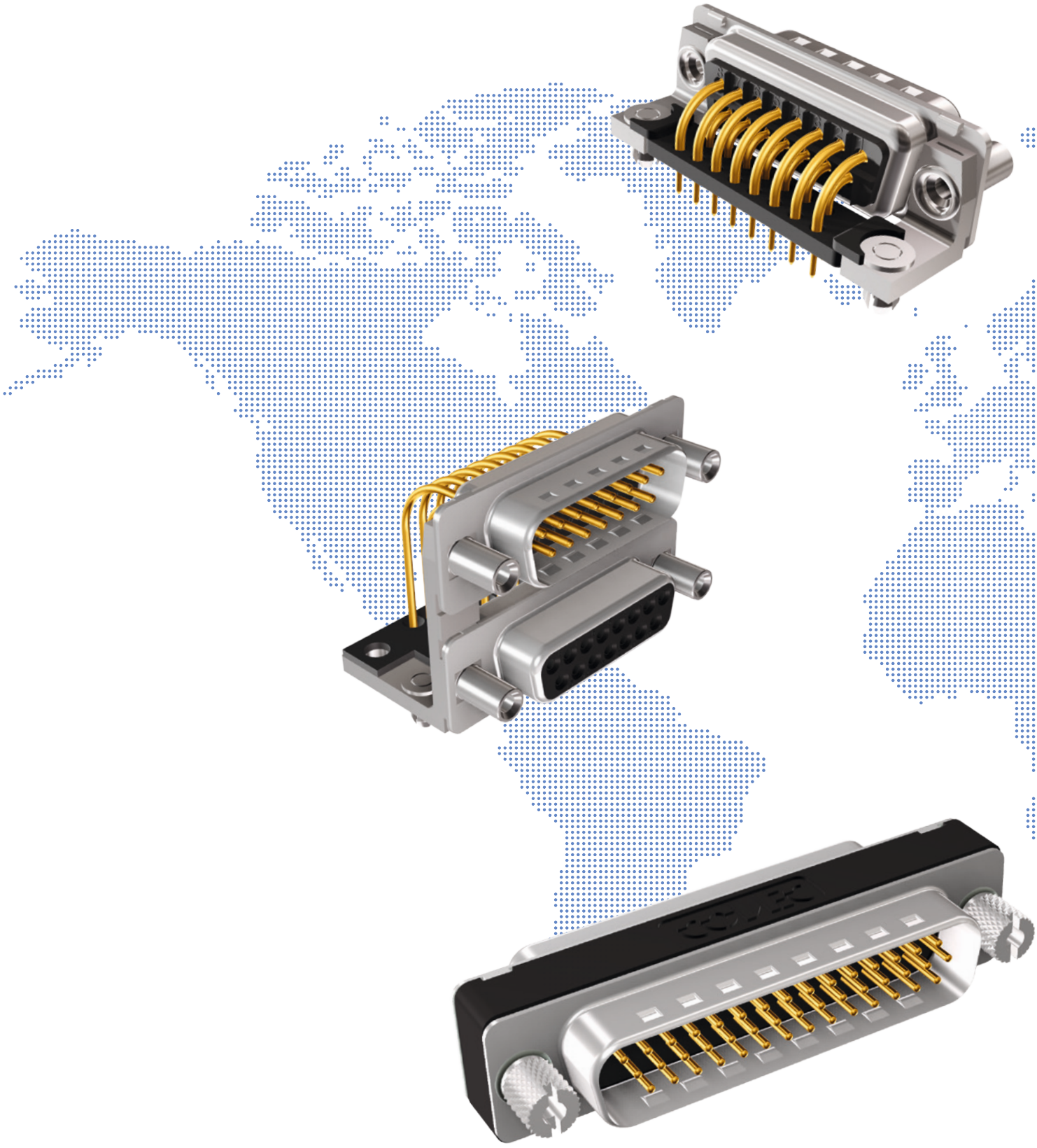
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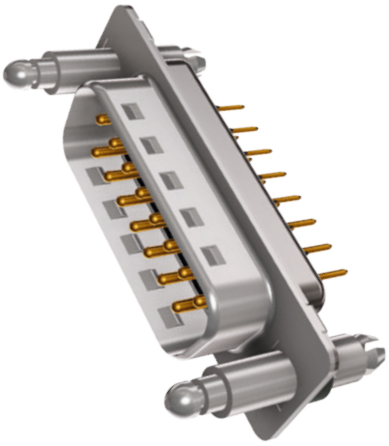
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Section 1

D-SUB Connectors

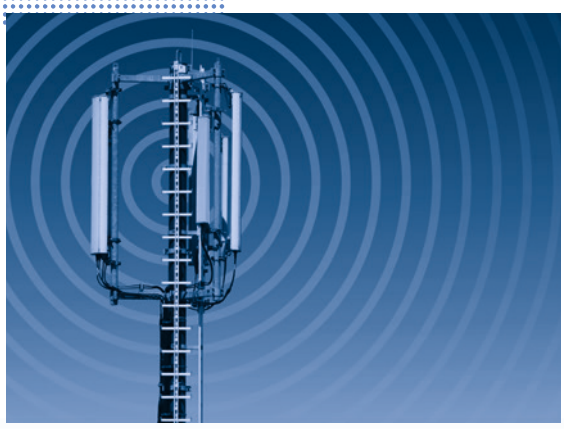












D-SUB Connectors

Product specification

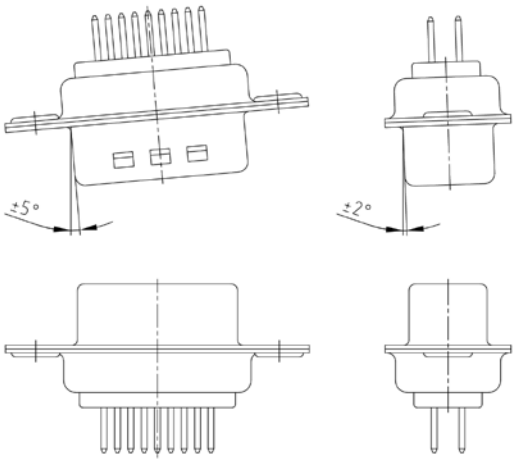
Basic material	D-SUB 9-, 15-, 25-, 37-, 50-pos.	D-SUB High Density 15-, 26-, 44-, 62-, 78-pos.
Contact	Copper alloy	
Contact plating	Gold over nickel	
Insulator	PBT GF UL 94 V-0	
Shell	Steel tin plated / nickel plated (on request brass tin plated or stainless steel)	

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	

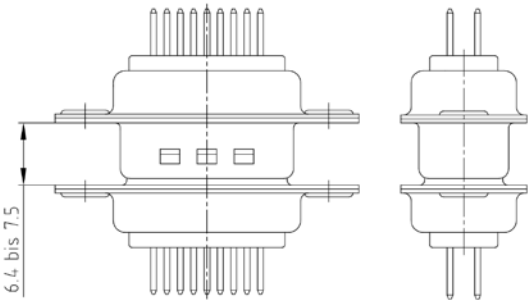
Technical specifications are subject to change without notice.

Mating conditions

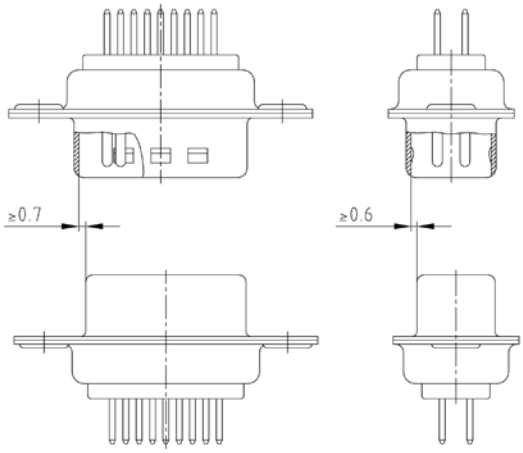
Max. tilt angle for connector mating



Range for safe contact

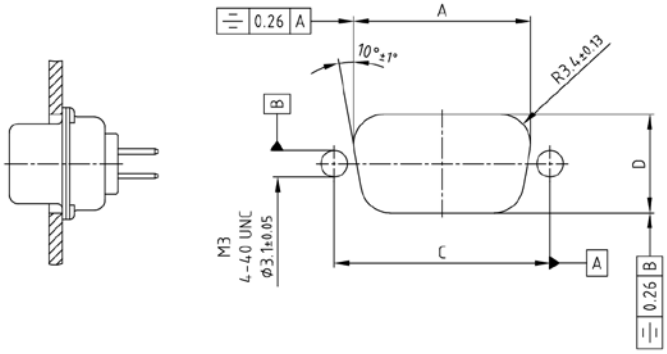


Lock-in range

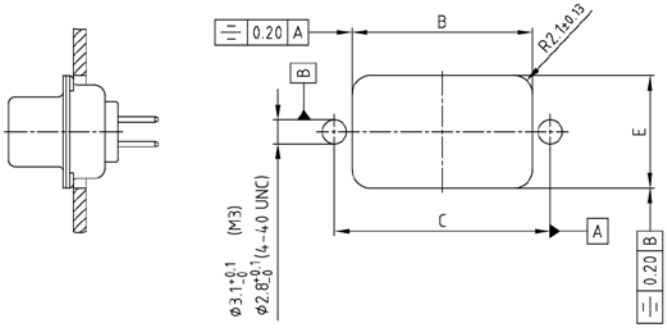


Panel cut-out

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.

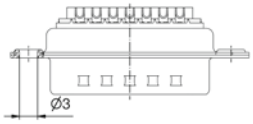
D-SUB Connectors
Standard

Solder cup
Precision machined contacts, AWG 20

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

Through-hole Ø 3 mm

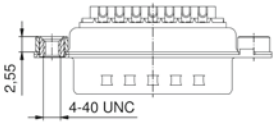




No. of poles	*Current rating [A]*	*Working voltage [V]*	*UL-File*	*Quality class*	*Part No. Socket contact*	*Part No. Plug contact*
9	75 (UL) / 5 (CSA, VDE)	125	E202784	3	164A10019X	163A11069X
15					164A10029X	163A11079X
25					164A10039X	163A11089X
37					164A10049X	163A11099X
50					164A10059X	163A11109X

4-40 UNC threaded insert





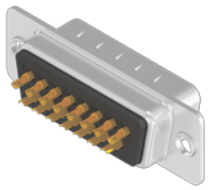
No. of poles	*Current rating [A]*	*Working voltage [V]*	*UL-File*	*Quality class*	*Part No. Socket contact*	*Part No. Plug contact*
09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	164A10219X	163A11269X
15					164A10229X	163A11279X
25					164A10239X	163A11289X
37					164A10249X	163A11299X
50					164A10259X	163A11309X

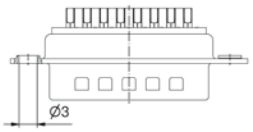
D-SUB Connectors
Standard

Solder cup
Stamped contacts, AWG 20

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

Through-hole Ø 3 mm



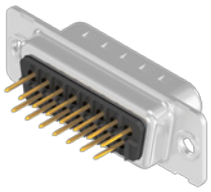
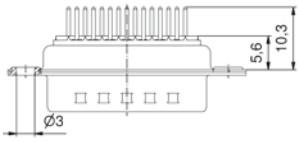
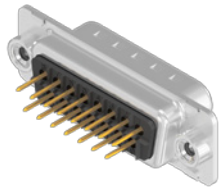
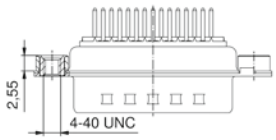
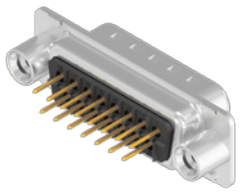
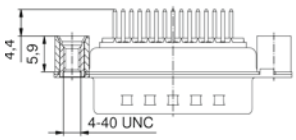
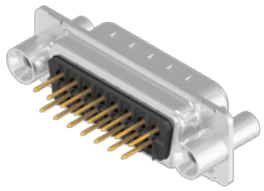
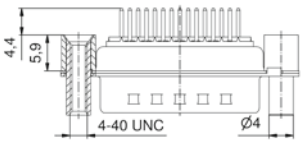
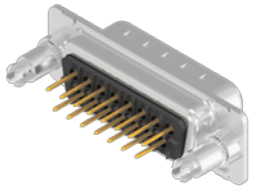
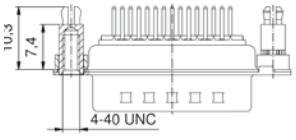
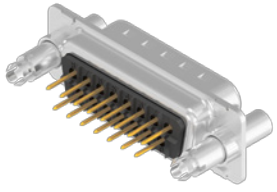
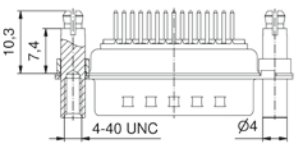


No. of poles	*Current rating [A]*	*Working voltage [V]*	*UL-File*	*Quality class*	*Part No. Socket contact*	*Part No. Plug contact*
09	3	125		3	302A10019X	301A10019X
15					302A10029X	301A10029X
25					302A10059X	301A10059X
37					302A10069X	301A10069X
50					302A10079X	301A10079X

D-SUB Connectors
Standard

Solder pin, straight
Precision machined contacts

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

	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
Through-hole Ø 3 mm							
 	09	7.5 (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	7.5 (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	7.5 (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	7.5 (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	7.5 (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	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A16669X	163A16259X
	15					164A16679X	163A16269X
	25					164A16689X	163A16279X
	37					164A16699X	163A16289X
	50					164A16709X	163A16299X

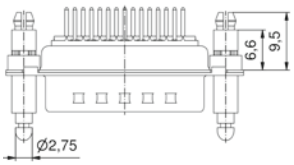
D-SUB Connectors
Standard

CONEC SnapLock, Solder pin, straight
Precision machined contacts

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

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





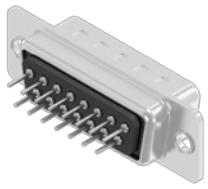
No. of poles	*Current rating [A]*	*Working voltage [V]*	*UL-File*	*Quality class*	*Part No. Socket contact*	*Part No. Plug contact*
09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	16-002143	16-002093
15					16-002153	16-002103
25					16-002163	16-002113
37					16-002173	16-002123
50					16-002183	16-002133

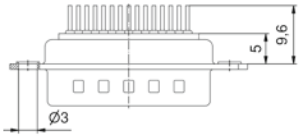
D-SUB Connectors
Standard

Solder pin, straight
Stamped contacts

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

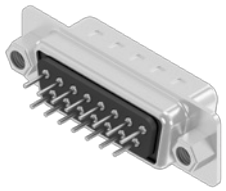
Through-hole Ø 3 mm

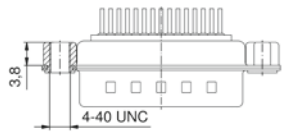




No. of poles	*Current rating [A]*	*Working voltage [V]*	*UL-File*	*Quality class*	*Part No. Socket contact*	*Part No. Plug contact*
09	3	125		3	DLS1XS4AD01X	DLS1XP4AD01X
15					DLS2XS4AD01X	DLS2XP4AD01X
25					DLS3XS4AD01X	DLS3XP4AD01X
37					DLS4XS4AD01X	DLS4XP4AD01X
50					DLS5XS4AD01X	DLS5XP4AD01X

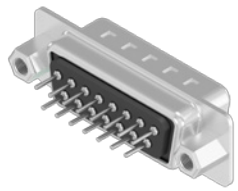
4-40 UNC threaded insert

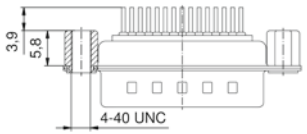




09	3	125		3	DLS1XS4AG06X	DLS1XP4AG06X
15					DLS2XS4AG06X	DLS2XP4AG06X
25					DLS3XS4AG06X	DLS3XP4AG06X
37					DLS4XS4AG06X	DLS4XP4AG06X
50					DLS5XS4AG06X	DLS5XP4AG06X

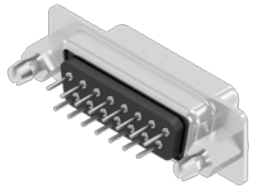
4-40 UNC threaded rear spacer

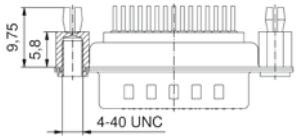




09	3	125		3	DLS1XS4AA37X	DLS1XP4AA37X
15					DLS2XS4AA37X	DLS2XP4AA37X
25					DLS3XS4AA37X	DLS3XP4AA37X
37					DLS4XS4AA37X	DLS4XP4AA37X
50					DLS5XS4AA37X	DLS5XP4AA37X

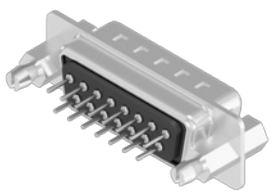
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

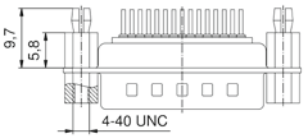




09	3	125		3	DLS1XS4AA35X	DLS1XP4AA35X
15					DLS2XS4AA35X	DLS2XP4AA35X
25					DLS3XS4AA35X	DLS3XP4AA35X
37					DLS4XS4AA35X	DLS4XP4AA35X
50					DLS5XS4AA35X	DLS5XP4AA35X

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





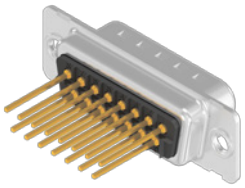
09	3	125		3	DLS1XS4AA39X	DLS1XP4AA39X
15					DLS2XS4AA39X	DLS2XP4AA39X
25					DLS3XS4AA39X	DLS3XP4AA39X
37					DLS4XS4AA39X	DLS4XP4AA39X
50					DLS5XS4AA39X	DLS5XP4AA39X

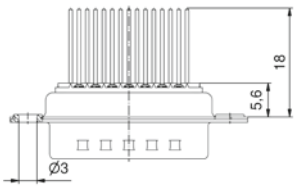
D-SUB Connectors
Standard

Wire wrap
Precision machined contacts

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

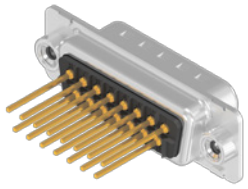
Through-hole Ø 3 mm

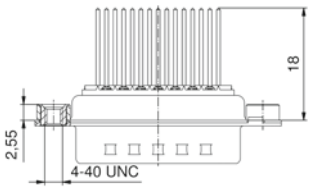




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	164A10119X	163A11169X
15					164A10129X	163A11179X
25					164A10139X	163A11189X
37					164A10149X	163A11199X
50					164A10159X	163A11209X

4-40 UNC threaded insert





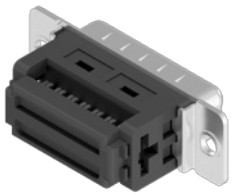
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	164A10419X	163A11469X
15					164A10429X	163A11479X
25					164A10439X	163A11489X
37					164A10449X	163A11499X
50					164A10459X	163A11509X

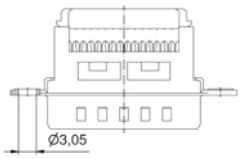
D-SUB Connectors
Standard

IDC for flat cable
Stamped contacts, AWG 26-28

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

Through-hole Ø 3 mm



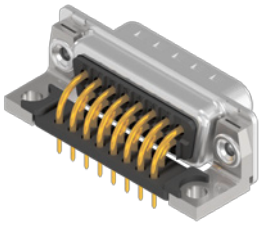
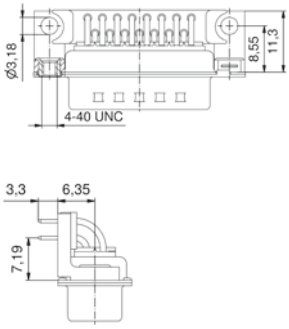
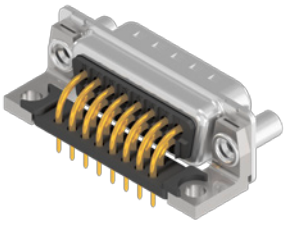
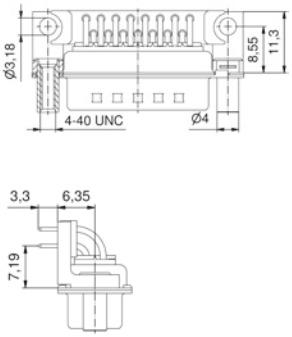
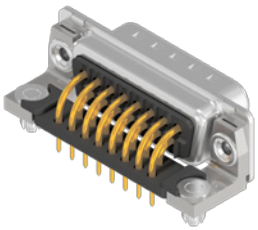
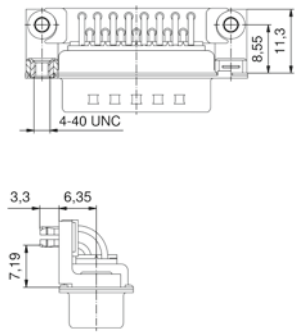
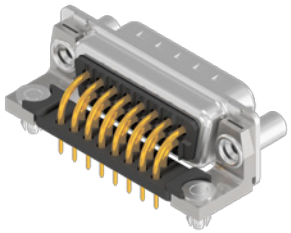
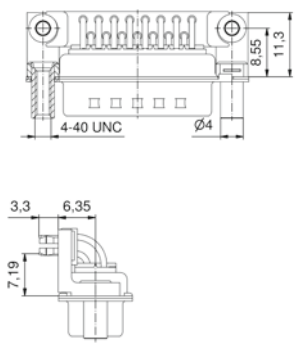


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	1	125		3	302A10089X	301A10089X
15					302A10099X	301A10099X
25					302A10109X	301A10109X
37					302A10119X	301A10119X

D-SUB Connectors
Standard

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

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

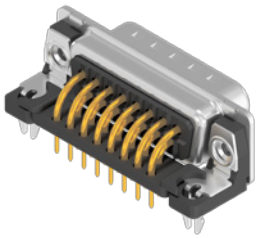
	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
4-40 UNC threaded insert							
 	09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A11519X	163A13069X
	15					164A11529X	163A13079X
	25					164A11539X	163A13089X
	37					164A11549X	163A13099X
	50					164A18969X	163A18549X
4-40 UNC front spacer							
 	09	7.5 (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	7.5 (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	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A19039X	163A18609X
	15					164A19049X	163A18619X
	25					164A19059X	163A18629X
	37					164A19069X	163A18639X
	50					164A19079X	163A18649X

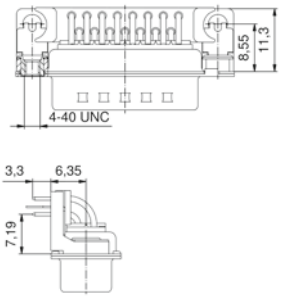
D-SUB Connectors
Standard

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

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

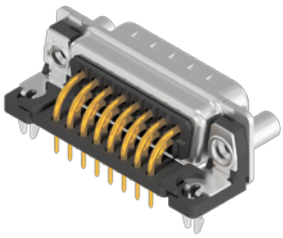
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

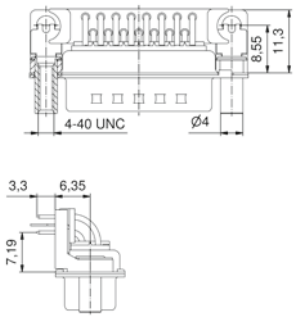




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	164A18809X	163A18389X
15					164A18819X	163A18399X
25					164A18829X	163A18409X
37					164A18839X	163A18419X

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





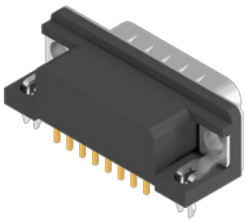
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	164A18889X	163A18469X
15					164A18899X	163A18479X
25					164A18909X	163A18489X
37					164A18919X	163A18499X

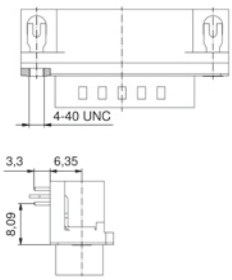
D-SUB Connectors
Standard

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

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

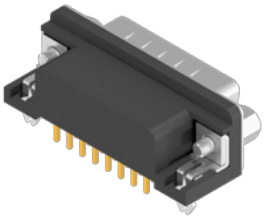
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

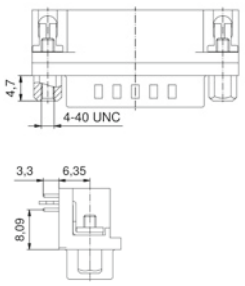




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	3	125		3	302A11339X	301A11029X
15					302A11349X	301A11039X
25					302A11359X	301A11049X
37					302A11369X	301A11059X

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



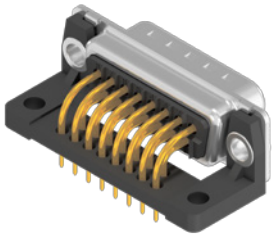
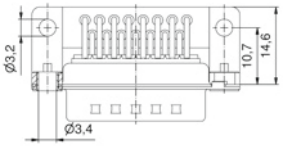
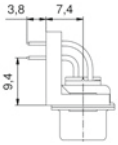
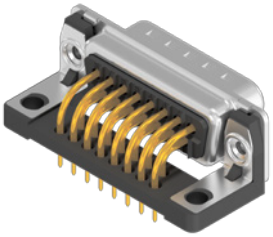
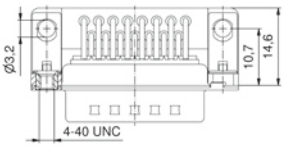
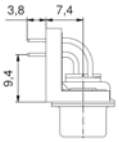
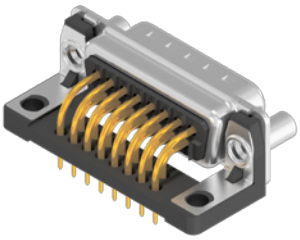
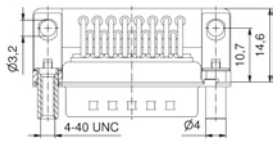
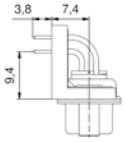
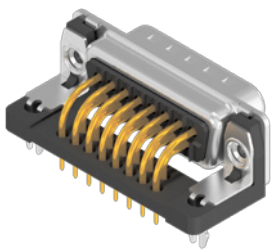
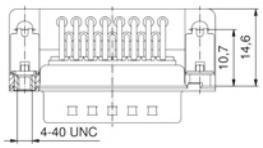
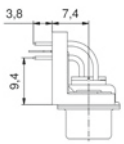


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	3	125		3	302A11249X	301A10939X
15					302A11259X	301A10949X
25					302A11269X	301A10959X
37					302A11279X	301A10969X

D-SUB Connectors
Standard

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

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

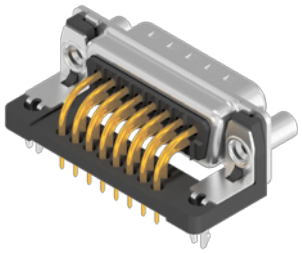
Through-hole Ø 3,4 mm	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
  	09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	164A10669X	163A11719X
	15					164A10679X	163A11729X
	25					164A10689X	163A11739X
	37					164A10699X	163A11749X
	50					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

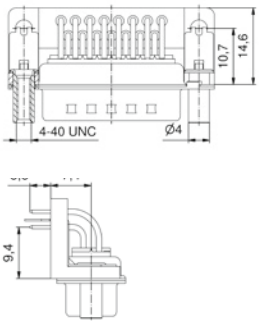
D-SUB Connectors
Standard

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

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

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

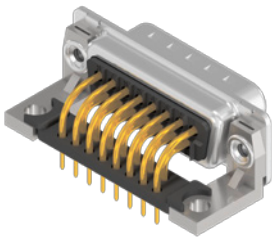


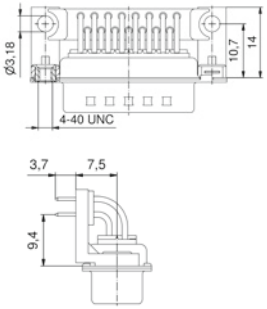


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A13089X	163A14609X
15					164A13099X	163A14619X
25					164A13109X	163A14629X
37					164A13119X	163A14639X
50					164A19159X	163A18729X

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

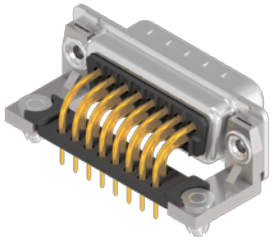
4-40 UNC threaded insert

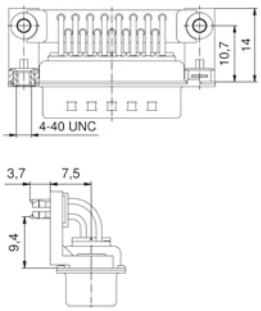




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A10969X	163A12019X
15					164A10979X	163A12029X
25					164A10989X	163A12039X
37					164A10999X	163A12049X
50					164A18739X	163A18319X

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





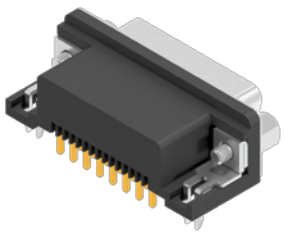
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	164A16769X	163A16359X
15					164A16779X	163A16369X
25					164A16789X	163A16379X
37					164A16799X	163A16389X
50					164A18759X	163A18339X

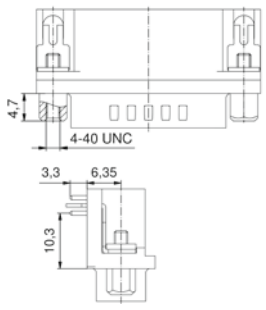
D-SUB Connectors
Standard

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

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

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



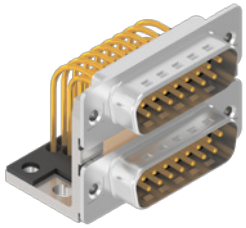
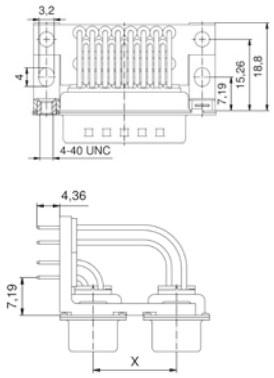
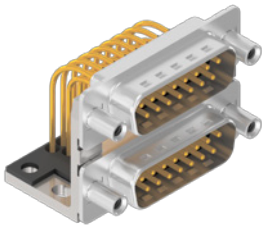
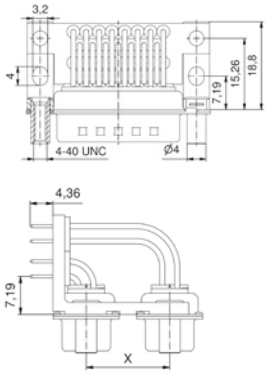
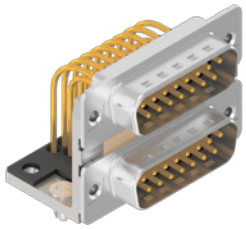
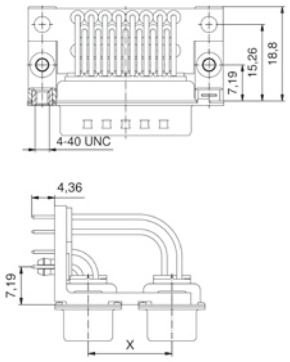
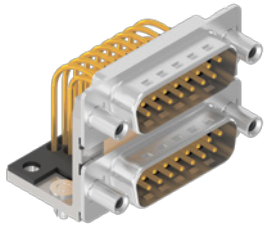
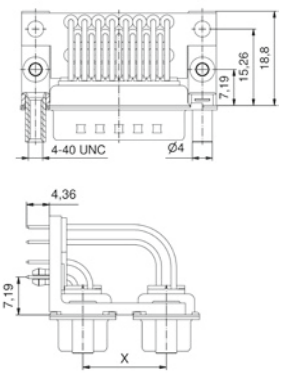


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	3	125		3	302A10779X	301A10679X
15					302A10789X	301A10689X
25					302A10799X	301A10699X
37					302A10809X	301A10709X

D-SUB Connectors
Dual Port

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

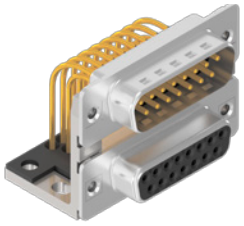
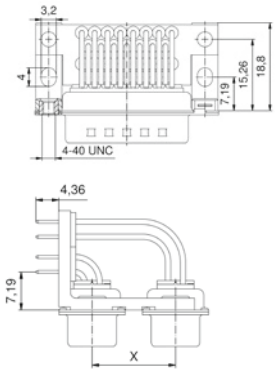
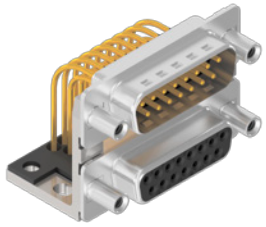
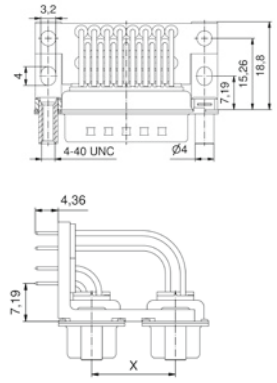
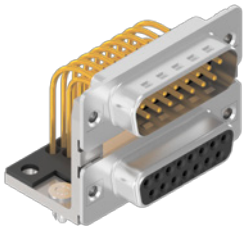
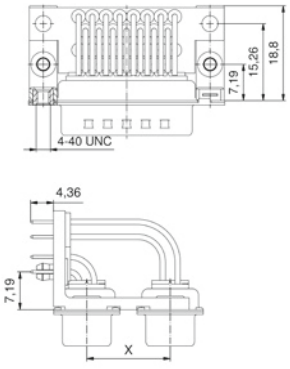
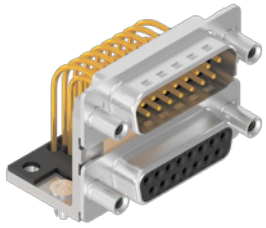
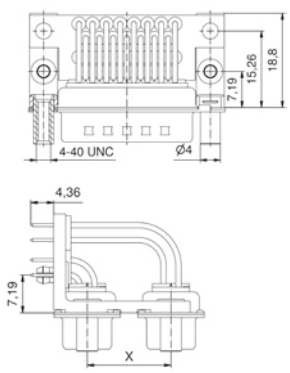
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cyles
On request:
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

		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 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	163A15199X
		15/15						163A15209X
		25/25						163A15219X
		37/37						163A15229X
		09/09					.750 19.05	163A15519X
		15/15						163A15529X
		25/25						163A15539X
		37/37						163A15549X
4-40 UNC front spacer								
		09/09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	163A15359X
		15/15						163A15369X
		25/25						163A15379X
		37/37						163A15389X
		09/09					.750 19.05	163A15679X
		15/15						163A15689X
		25/25						163A15699X
		37/37						163A15709X
Clip for PCB 1.6 mm, 4-40 UNC threaded insert								
		09/09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	163A19969X
		15/15						163A19979X
		25/25						163A19989X
		37/37						163A19999X
		09/09					.750 19.05	163A19489X
		15/15						163A19499X
		25/25						163A19509X
		37/37						163A19519X
Clip for PCB 1.6 mm, 4-40 UNC front spacer								
		09/09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	163A19329X
		15/15						163A19339X
		25/25						163A19349X
		37/37						163A19359X
		09/09					.750 19.05	163A19649X
		25/25						163A19659X
		25/25						163A19669X
		37/37						163A19679X

D-SUB Connectors
Dual Port

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

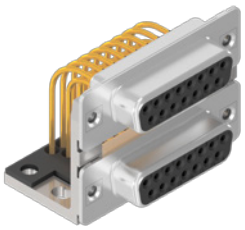
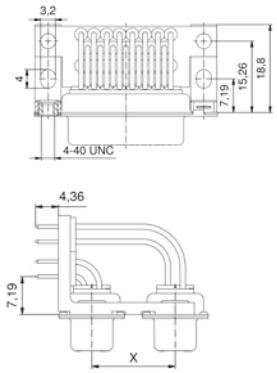
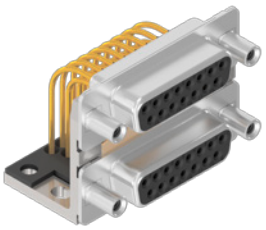
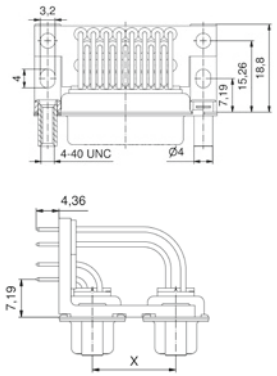
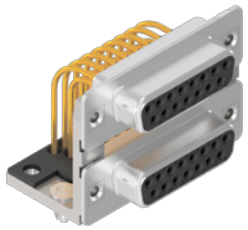
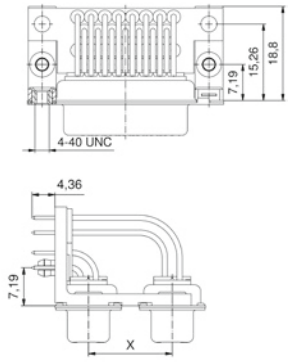
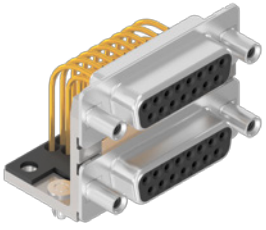
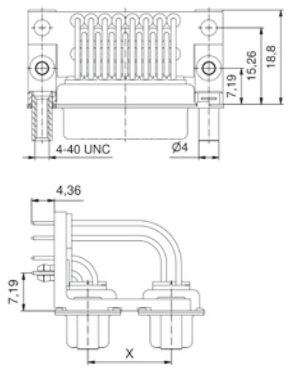
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cyles
On request:
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

		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	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	163A15239X
		15/15						163A15249X
		25/25						163A15259X
		37/37						163A15269X
		09/09					.750 19.05	163A15559X
		15/15						163A15569X
		25/25						163A15579X
		37/37						163A15589X
4-40 UNC front spacer								
		09/09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	163A15399X
		15/15						163A15409X
		25/25						163A15419X
		37/37						163A15429X
		09/09					.750 19.05	163A15719X
		15/15						163A15729X
		25/25						163A15739X
		37/37						163A15749X
Clip for PCB 1.6 mm, 4-40 UNC threaded insert								
		09/09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	163A20009X
		15/15						163A20019X
		25/25						163A20029X
		37/37						163A20039X
		09/09					.750 19.05	163A19529X
		15/15						163A19539X
		25/25						163A19549X
		37/37						163A19559X
Clip for PCB 1.6 mm, 4-40 UNC front spacer								
		09/09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	163A19369X
		15/15						163A19379X
		25/25						163A19389X
		37/37						163A19399X
		09/09					.750 19.05	163A19689X
		15/15						163A19699X
		25/25						163A19709X
		37/37						163A19719X

D-SUB Connectors
Dual Port

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

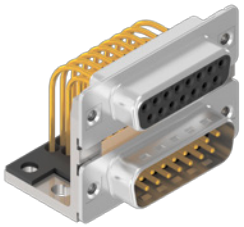
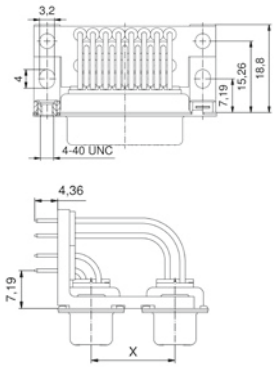
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cyles
On request:
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

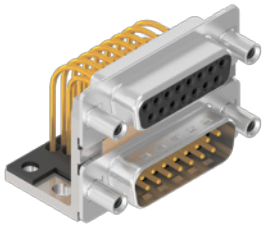
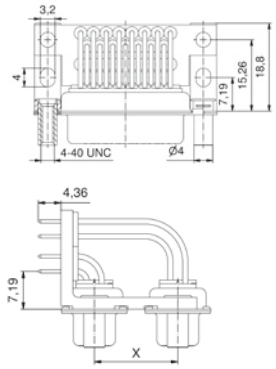
		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
4-40 UNC threaded insert								
		09/09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	164A15609X
		15/15						164A15619X
		25/25						164A15629X
		37/37						164A15639X
		09/09			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

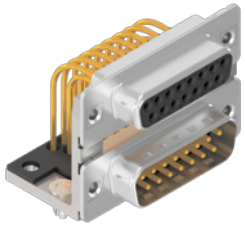
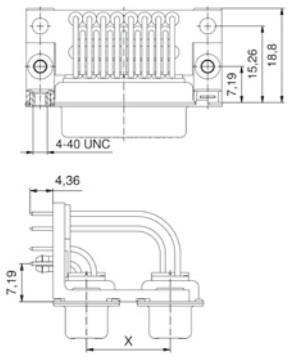
D-SUB Connectors
Dual Port

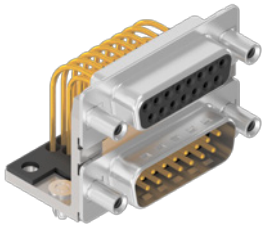
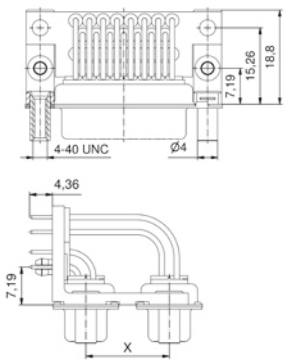
Socket upper - Plug buttom
Solder pin, angled, precision machined contacts

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

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

4-40 UNC front spacer	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
 	09/09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	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	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
 	09/09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	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

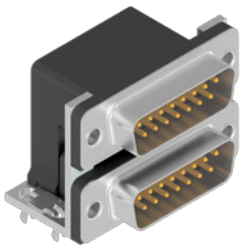
Clip for PCB 1.6 mm, 4-40 UNC front spacer	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
 	09/09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	.625 15.88	164A19799X
	15/15						164A19809X
	25/25						164A19819X
	09/09					.750 19.05	164A20119X
	15/15						164A20129X
	25/25						164A20139X
	37/37						164A20149X

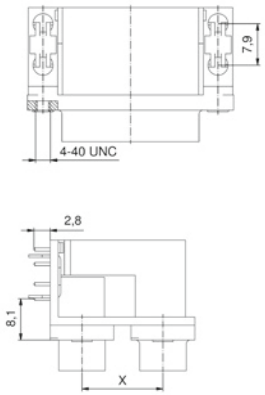
D-SUB Connectors
Dual Port

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

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

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

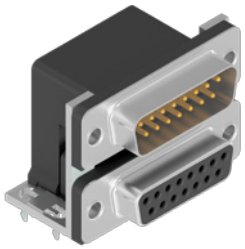


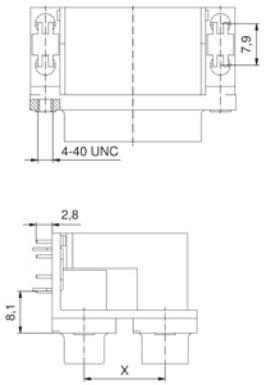


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
09/09	3	125		3	.625 15.88	DLS1PP5AN21X
15/15						DLS2PP5AN21X
25/25						DLS3PP5AN21X
37/37						DLS4PP5AN21X
09/09					.750 19.05	DLS1PP5AN23X
15/15						DLS2PP5AN23X
25/25						DLS3PP5AN23X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

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

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

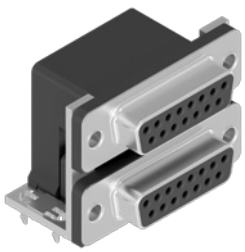


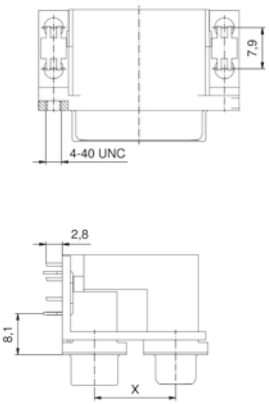


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
09/09	3	125		3	.625 15.88	DLS1PS5AN21X
15/15						DLS2PS5AN21X
25/25						DLS3PS5AN21X
37/37						DLS4PS5AN21X
09/09					.750 19.05	DLS1PS5AN23X
15/15						DLS2PS5AN23X
25/25						DLS3PS5AN23X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

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

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





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

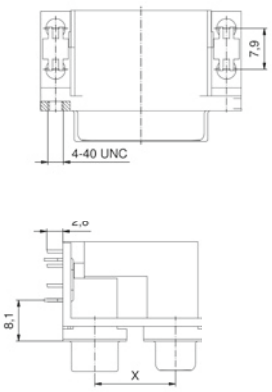
D-SUB Connectors
Dual Port

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

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

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





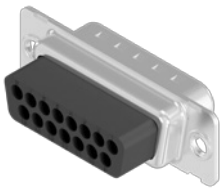
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
09/09	3	125		3	.625 15.88	DLS1SP5AN21X
15/15						DLS2SP5AN21X
25/25						DLS3SP5AN21X
37/37						DLS4SP5AN21X
09/09					.750 19.05	DLS1SP5AN23X
15/15						DLS2SP5AN23X
25/25						DLS3SP5AN23X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

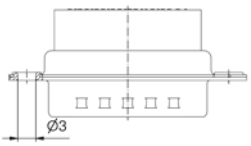
D-SUB Connectors
Standard

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

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

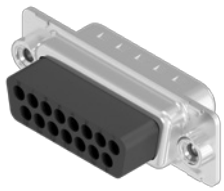
Through-hole Ø 3 mm

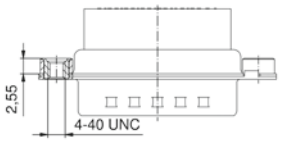




No. of poles	Working voltage [V]	UL-File	Part No. Socket contact	Part No. Plug contact
09	125	E202784	164X11769X	163X10019X
15			164X11779X	163X10029X
25			164X11789X	163X10039X
37			164X11799X	163X10049X
50			164X11809X	163X10059X

4-40 UNC threaded insert





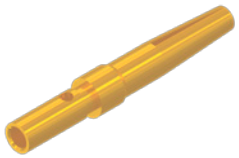
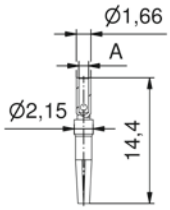
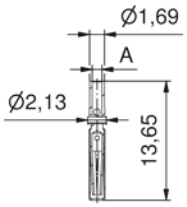
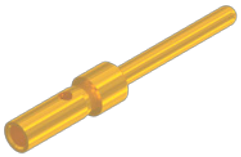
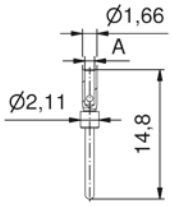
No. of poles	Working voltage [V]	UL-File	Part No. Socket contact	Part No. Plug contact
09	125	E202784	DSS1XSXXG04X	DSS1XPXXG04X
15			DSS2XSXXG04X	DSS2XPXXG04X
25			DSS3XSXXG04X	DSS3XPXXG04X
37			DSS4XSXXG04X	DSS4XPXXG04X
50			DSS5XSXXG04X	DSS5XPXXG04X

D-SUB Connectors
Standard

Crimp-contacts, precision machined

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

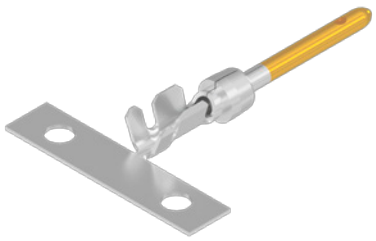
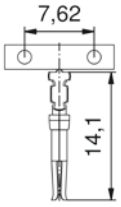
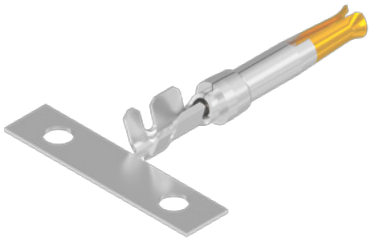
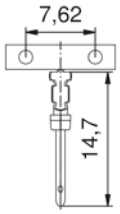
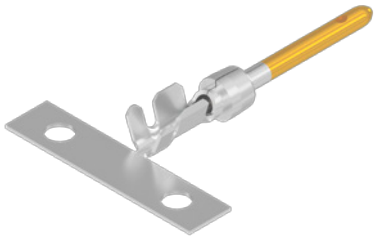
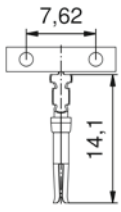
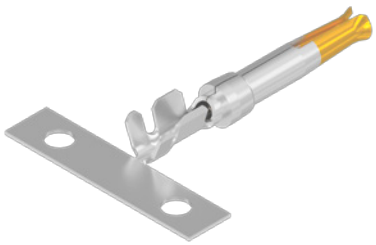
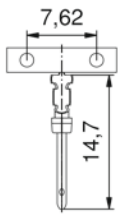
(Closed entry version only in qualtiy class 3)

		Quantity [pcs]	*AWG*	*Current rating [A]*	*Crimp inner Ø A = [mm]*	*Quality class*	*Loose contacts*	*Part No.*
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								
		100	24-20	7.5	1,12	1	✓	132C15019X
			28-24	5	0,6			132C15029X
Male contact								
		500	24-20	7.5	1,12	3	✓	161A18299X
		100						16-001673
		500	28-24	5	0,64			161A18309X
		100						16-001683

D-SUB Connectors
Standard

Crimp-contacts, stamped

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

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

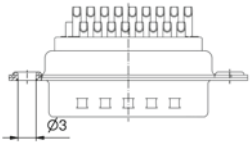
D-SUB Connectors
High Density

Solder cup
Precision machined contacts, AWG 22

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

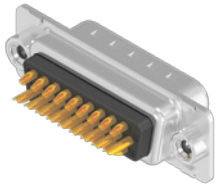
Through-hole Ø 3 mm

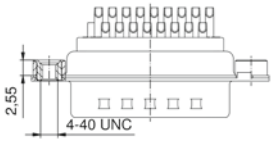




No. of poles	*Current rating [A]*	*Working voltage [V]*	*UL-File*	*Quality class*	*Part No. Socket contact*	*Part No. Plug contact*
15	3 (UL,VDE) / 2.5 (CSA)	60	E202784	3	164A17009X	163A16599X
26					164A17019X	163A16609X
44					164A17029X	163A16619X
62					164A17039X	163A16629X
78					164A17049X	163A16639X

4-40 UNC threaded insert





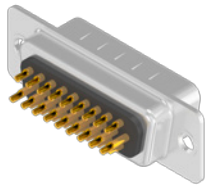
No. of poles	*Current rating [A]*	*Working voltage [V]*	*UL-File*	*Quality class*	*Part No. Socket contact*	*Part No. Plug contact*
15	3 (UL,VDE) / 2.5 (CSA)	60	E202784	3	164A17059X	163A16649X
26					164A17069X	163A16659X
44					164A17079X	163A16669X
62					164A17089X	163A16679X
78					164A17099X	163A16689X

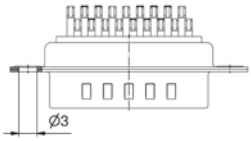
D-SUB Connectors
High Density

Solder cup
Stamped contacts, AWG 22

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

Through-hole Ø 3 mm



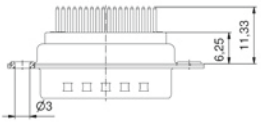
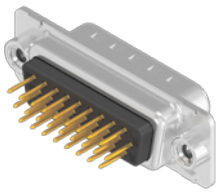
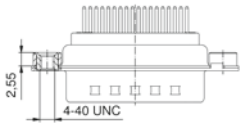
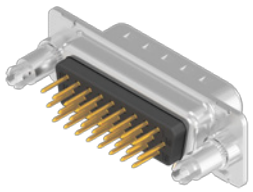
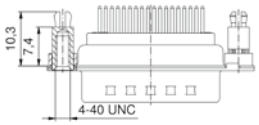
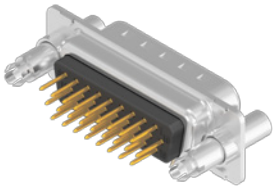
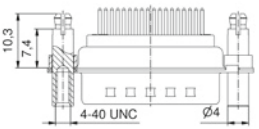


No. of poles	*Current rating [A]*	*Working voltage [V]*	*UL-File*	*Quality class*	*Part No. Socket contact*	*Part No. Plug contact*
15	3	60		3	302A10129X	301A10129X
26					302A10139X	301A10139X
44					302A10149X	301A10149X
62					302A10159X	301A10159X
78					302A11329X	301A11019X

D-SUB Connectors
High Density

Solder pin, straight
Precision machined contacts

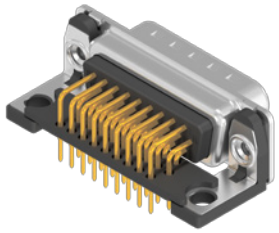
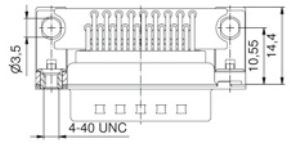
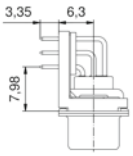
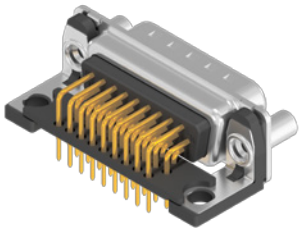
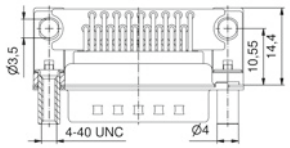
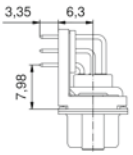
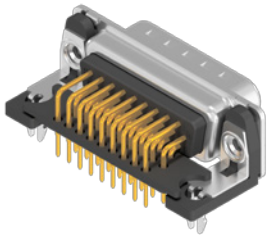
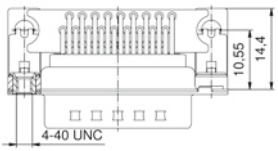
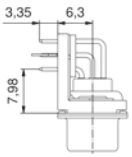
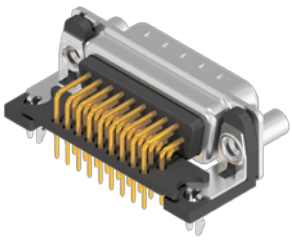
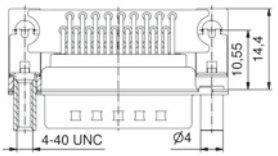
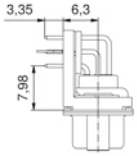
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cyles
On request:
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

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

D-SUB Connectors
High Density

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

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

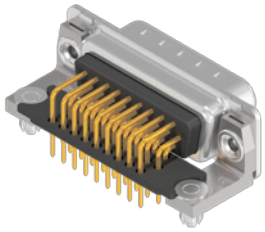
	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
Grounding strap, 4-40 UNC threaded insert							
  	15	3 (UL,VDE) / 2.5 (CSA)	60	E202784	3	164A18019X	163A17609X
	26					164A18029X	163A17619X
	44					164A18039X	163A17629X
	62					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

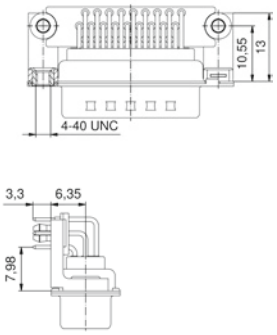
D-SUB Connectors
High Density

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

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

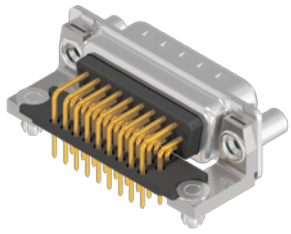
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

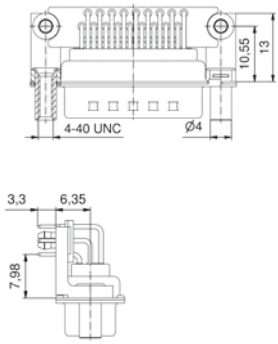




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL,VDE) / 2.5 (CSA)	60	E202784	3	164A18179X	163A17769X
26					164A18189X	163A17779X
44					164A18199X	163A17789X
62					164A18209X	163A17799X
78					164A18629X	163A18219X

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





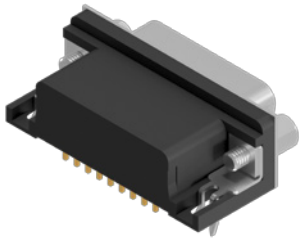
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL,VDE) / 2.5 (CSA)	60	E202784	3	164A18259X	163A17849X
26					164A18269X	163A17859X
44					164A18279X	163A17869X
62					164A18289X	163A17879X
78					164A18649X	163A18239X

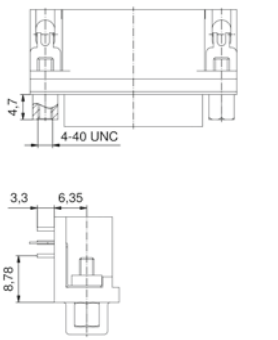
D-SUB Connectors
High Density

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

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

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





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

D-SUB Connectors
High Density

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

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

Through-hole Ø 3 mm





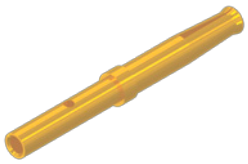
No. of poles	Working voltage [V]	UL-File	Part No. Socket contact	Part No. Plug contact
15	60	E202784	164X11949X	163X10169X
26			164X11959X	163X10179X
44			164X11969X	163X10189X
62			164X11979X	163X10199X
78			164X11989X	163X10209X

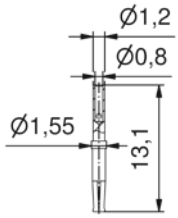
D-SUB Connectors
High Density

Crimp-contacts, precision machined

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

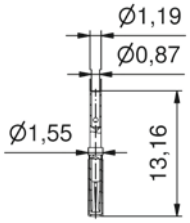
Female contact, AWG 28-22



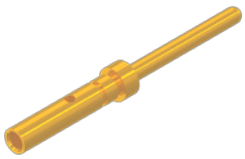


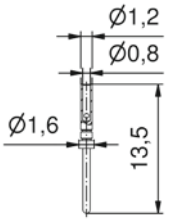
Female contact closed entry, AWG 28-22





Male contact, AWG 28-22





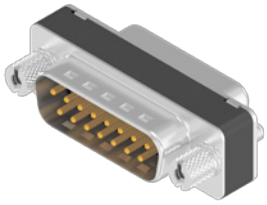
Quantity [pcs]	Current rating [A]	Loose contacts	Quality class	Part No.
500	3	✓	3	162A18419X
500	3	✓	3	16-000693
500	3	✓	3	161A18009X

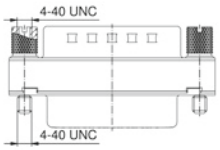
D-SUB Connectors
Standard

Interface adapter, connector saver
Plug connector - socket connector

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

4-40 UNC threaded lock





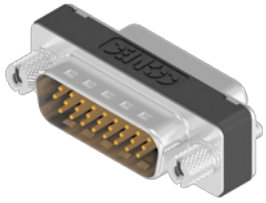
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
09	7.5 (UL), 5 (CSA, VDE)	125	E202784	3	163A50009X
15					163A50019X
25					163A50029X
37					163A50039X
50					163A50049X

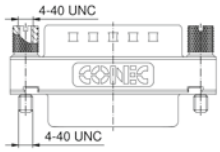
D-SUB Connectors
High Density

Interface adapter, connector saver
Plug connector - socket connector

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

4-40 UNC threaded lock





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

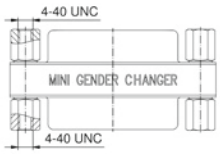
D-SUB Connectors
Standard

Interface adapter, gender changer
Socket connector - socket connector

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

4-40 UNC threaded lock

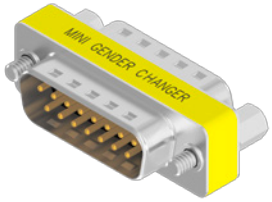


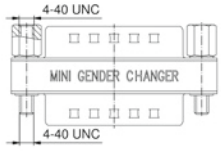


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
09	3	125		3	320X12519X
15					320X12539X
25					320X10559X
37					320X12559X

Interface adapter, gender changer
Plug connector- plug connector

4-40 UNC threaded lock

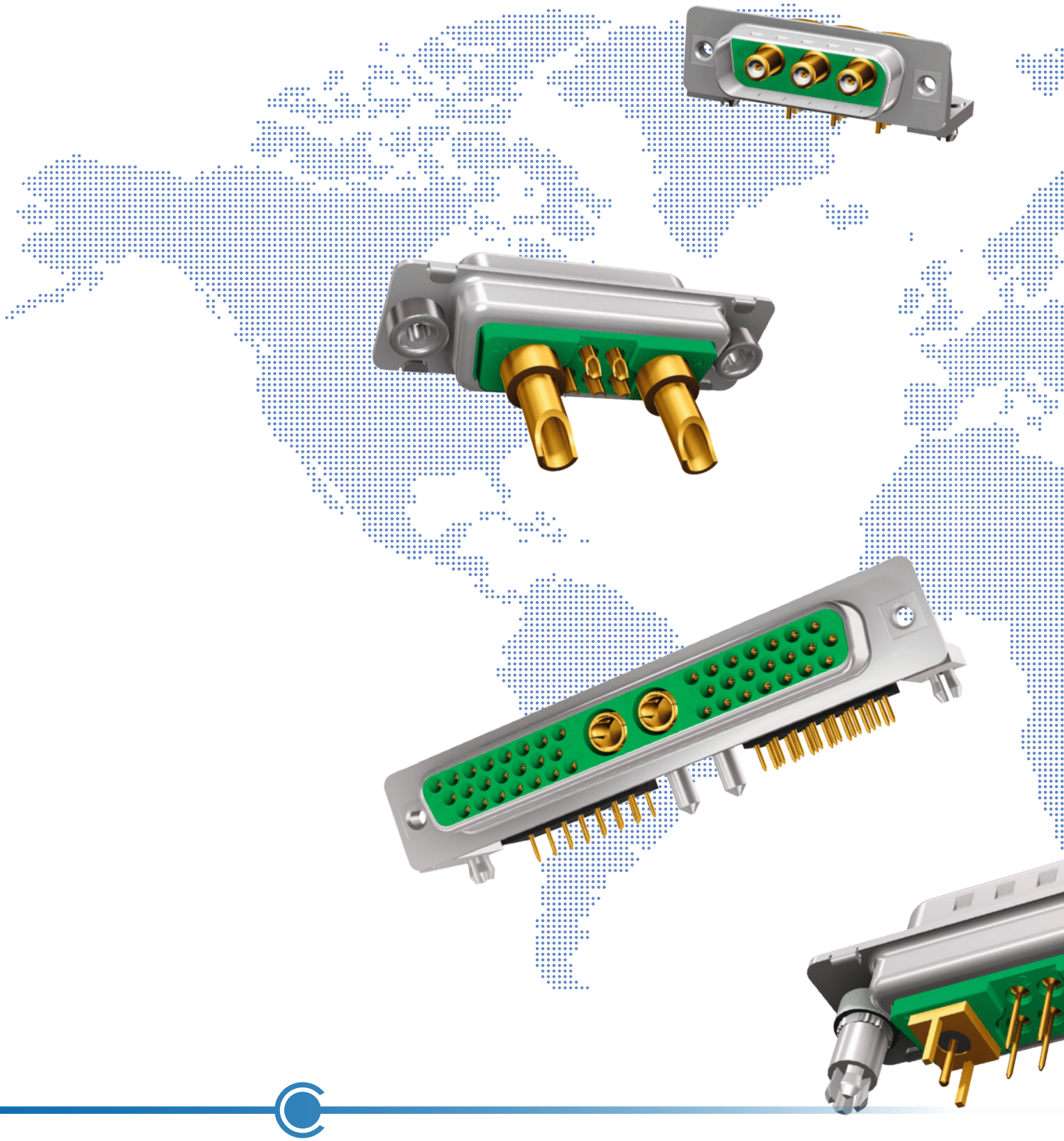


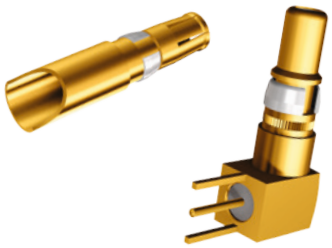


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
09	3	125		3	320X12509X
15					320X12529X
25					320X10549X
37					320X12549X

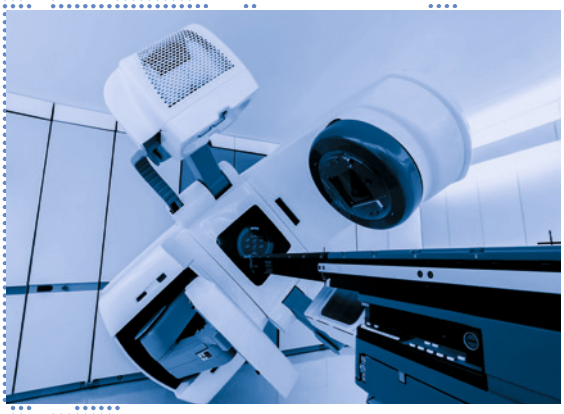
Section 2

Combination D-SUB Connectors

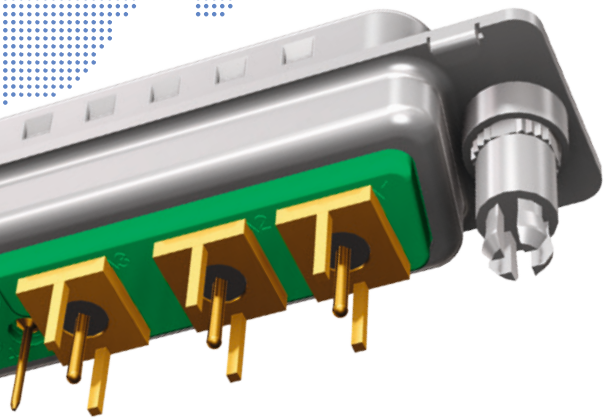














Combination D-SUB Connectors

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

Part Number Creator
High Density

3 H19W1 S C M 4 1 A 1 0 X

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

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

Contact type
P = Plug connector
S = Socket connector

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

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

Termination for HIGH POWER- or COAXIAL contacts

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

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

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

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

0X = Standard

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.

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			

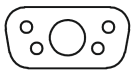
Technical specifications are subject to change without notice.

Combination D-SUB Connectors

Contact arrangements
Mating side of socket connector

Shell size 1

5W1



2W2C

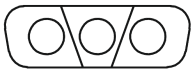


Shell size 2

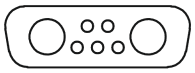
3W3



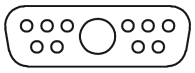
3W3C



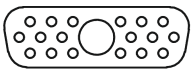
7W2



11W1



HD 19W1

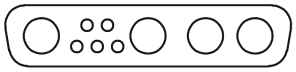


Shell size 3

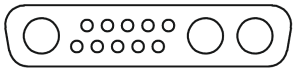
5W5



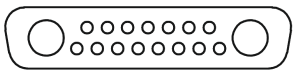
9W4



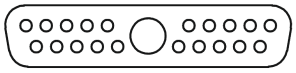
13W3



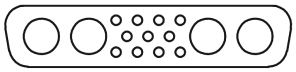
17W2



21W1



HD 15W4



Shell size 4

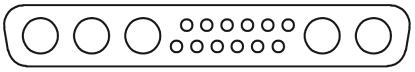
8W8



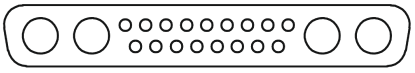
13W6



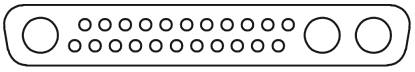
17W5



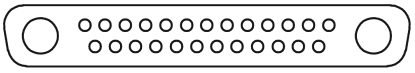
21WA4



25W3



27W2

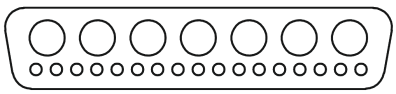


HD 45W2

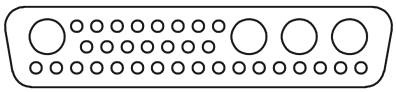


Shell size 5

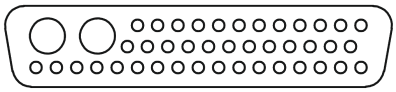
24W7



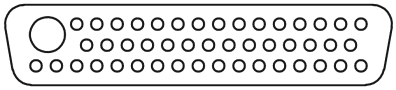
36W4



43W2



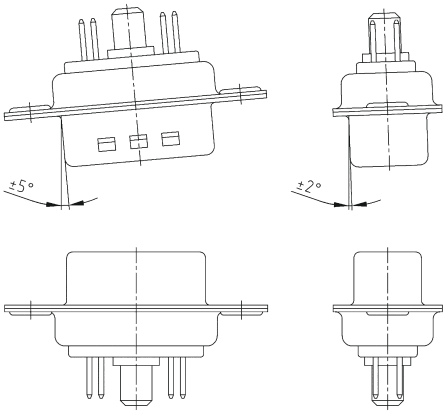
47W1



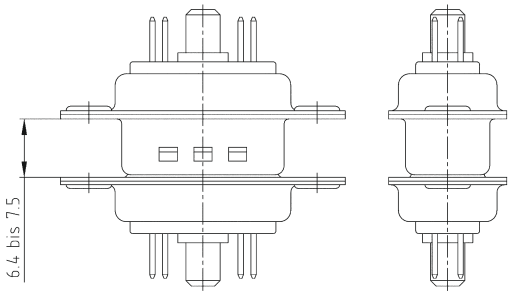
Connectors 3W3, 5W5 and 8W8 with female insulators: Socket contacts are fingerprobe safe according to UL 1950 and CSA 22.2.950.

Mating conditions

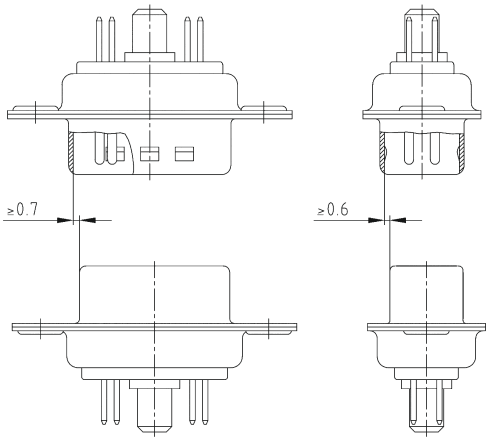
Max. tilt angle for connector mating



Range for safe contact

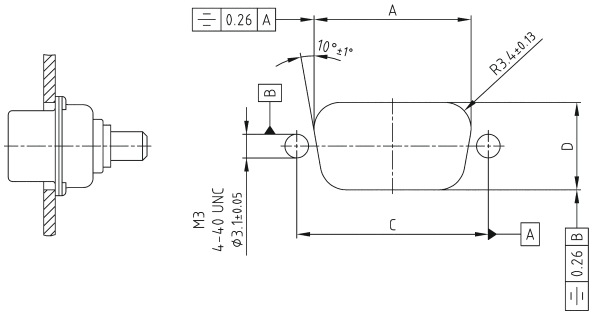


Lock-in range

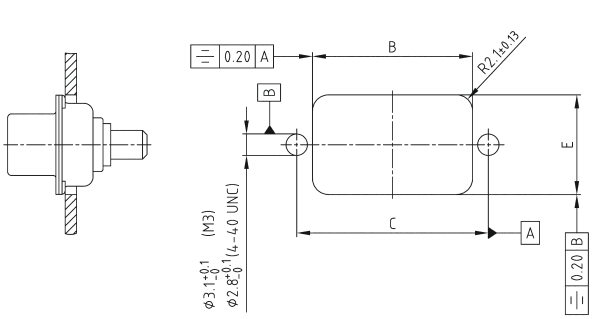


Panel cut-out

Back panel mounting



Front panel mounting



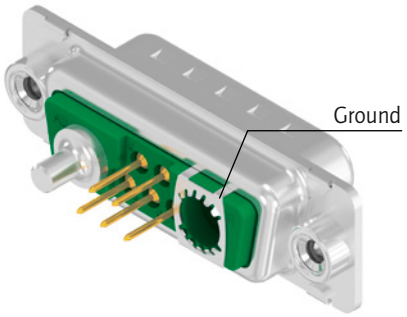
Shell size	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
1	20.50	20.90	25.00	11.40	13.00
2	28.80	29.20	33.30	11.40	13.00
3	42.50	42.90	47.04	11.40	13.00
4	59.10	59.40	63.50	11.40	13.00
5	56.30	57.00	61.10	14.10	15.80

Technical specifications are subject to change without notice.

Accessories

Grounding for coaxial contacts

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

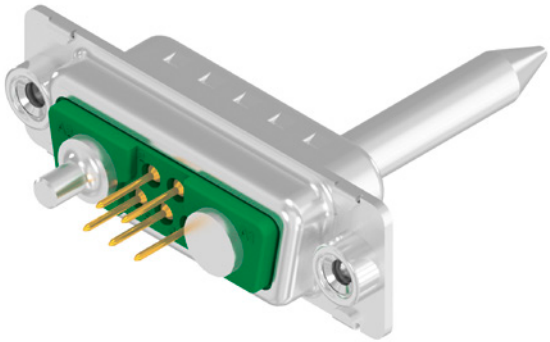


Guide post

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

Part Number

Guide post **160X11279X**



Hole plug

The hole plugs can be mounted from the mating side of male and female connectors to close unused contact positions.

Material: PBT GF UL 94 V-O

Colour: black

Part Number

Hole plug **160X10939X**

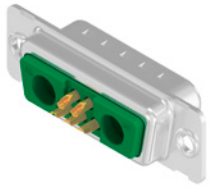


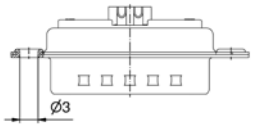
Combination D-SUB Connectors
With signal contacts

Solder cup
Precision machined contacts, AWG 20

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

Through-hole Ø 3 mm

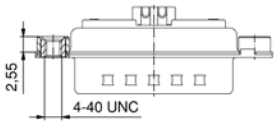




No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAM**99**A10X	3005W1PAM**99**A10X
7W2					3007W2SAM**99**A10X	3007W2PAM**99**A10X
9W4					3009W4SAM**99**A10X	3009W4PAM**99**A10X
11W1					3011W1SAM**99**A10X	3011W1PAM**99**A10X
13W3					3013W3SAM**99**A10X	3013W3PAM**99**A10X
13W6					3013W6SAM**99**A10X	3013W6PAM**99**A10X
17W2					3017W2SAM**99**A10X	3017W2PAM**99**A10X
17W5					3017W5SAM**99**A10X	3017W5PAM**99**A10X
21W1					3021W1SAM**99**A10X	3021W1PAM**99**A10X
24W7					3024W7SAM**99**A10X	3024W7PAM**99**A10X
25W3					3025W3SAM**99**A10X	3025W3PAM**99**A10X
27W2					3027W2SAM**99**A10X	3027W2PAM**99**A10X
36W4					3036W4SAM**99**A10X	3036W4PAM**99**A10X
43W2					3043W2SAM**99**A10X	3043W2PAM**99**A10X
47W1					3047W1SAM**99**A10X	3047W1PAM**99**A10X
21WA4					321WA4SAM**99**A10X	321WA4PAM**99**A10X

4-40 UNC threaded insert





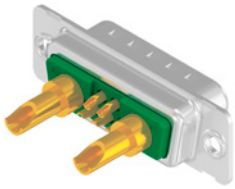
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAM**99**A30X	3005W1PAM**99**A30X
7W2					3007W2SAM**99**A30X	3007W2PAM**99**A30X
9W4					3009W4SAM**99**A30X	3009W4PAM**99**A30X
11W1					3011W1SAM**99**A30X	3011W1PAM**99**A30X
13W3					3013W3SAM**99**A30X	3013W3PAM**99**A30X
13W6					3013W6SAM**99**A30X	3013W6PAM**99**A30X
17W2					3017W2SAM**99**A30X	3017W2PAM**99**A30X
17W5					3017W5SAM**99**A30X	3017W5PAM**99**A30X
21W1					3021W1SAM**99**A30X	3021W1PAM**99**A30X
24W7					3024W7SAM**99**A30X	3024W7PAM**99**A30X
25W3					3025W3SAM**99**A30X	3025W3PAM**99**A30X
27W2					3027W2SAM**99**A30X	3027W2PAM**99**A30X
36W4					3036W4SAM**99**A30X	3036W4PAM**99**A30X
43W2					3043W2SAM**99**A30X	3043W2PAM**99**A30X
47W1					3047W1SAM**99**A30X	3047W1PAM**99**A30X
21WA4					321WA4SAM**99**A30X	321WA4PAM**99**A30X

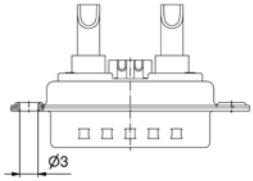
Combination D-SUB Connectors
With signal contacts & high power contacts 20 A

Solder cup
Precision machined contacts, AWG 20

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

Through-hole Ø 3 mm



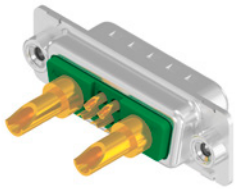


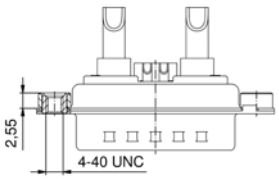
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAM**62**A10X	3005W1PAM**62**A10X
7W2					3007W2SAM**62**A10X	3007W2PAM**62**A10X
9W4					3009W4SAM**62**A10X	3009W4PAM**62**A10X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

For other Power contacts select code from spread sheet

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

4-40 UNC threaded insert





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

For other Power contacts select code from spread sheet

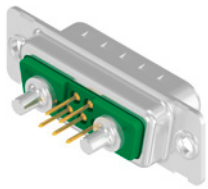
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A
63	10-12	30 A
64	8-10	40 A

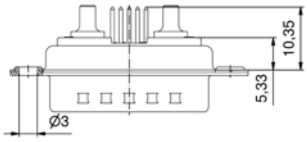
Combination D-SUB Connectors
With signal contacts & high power contacts 20 A

Solder pin, straight
Precision machined contacts

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

Through-hole Ø 3 mm



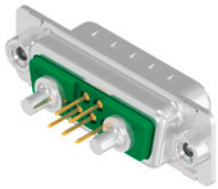


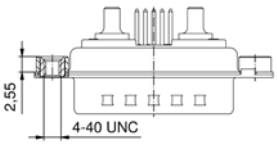
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR**69**A10X	3005W1PAR**69**A10X
7W2					3007W2SAR**69**A10X	3007W2PAR**69**A10X
9W4					3009W4SAR**69**A10X	3009W4PAR**69**A10X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

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]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR**69**A30X	3005W1PAR**69**A30X
7W2					3007W2SAR**69**A30X	3007W2PAR**69**A30X
9W4					3009W4SAR**69**A30X	3009W4PAR**69**A30X
11W1					3011W1SAR**69**A30X	3011W1PAR**69**A30X
13W3					3013W3SAR**69**A30X	3013W3PAR**69**A30X
13W6					3013W6SAR**69**A30X	3013W6PAR**69**A30X
17W2					3017W2SAR**69**A30X	3017W2PAR**69**A30X
17W5					3017W5SAR**69**A30X	3017W5PAR**69**A30X
21W1					3021W1SAR**69**A30X	3021W1PAR**69**A30X
24W7					3024W7SAR**69**A30X	3024W7PAR**69**A30X
25W3					3025W3SAR**69**A30X	3025W3PAR**69**A30X
27W2					3027W2SAR**69**A30X	3027W2PAR**69**A30X
36W4					3036W4SAR**69**A30X	3036W4PAR**69**A30X
43W2					3043W2SAR**69**A30X	3043W2PAR**69**A30X
47W1					3047W1SAR**69**A30X	3047W1PAR**69**A30X
21WA4					321WA4SAR**69**A30X	321WA4PAR**69**A30X

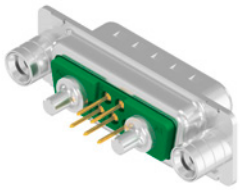
For other Power contacts select code from spread sheet

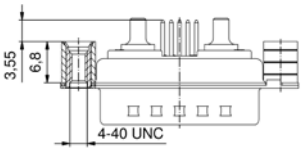
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

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

Solder pin, straight
Precision machined contacts

4-40 UNC threaded rear spacer





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

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

For other Power contacts select code from spread sheet

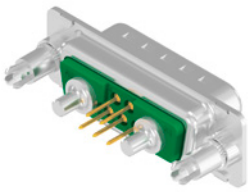
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

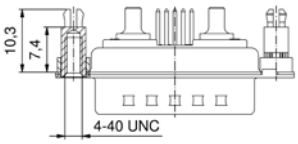
Combination D-SUB Connectors
With signal contacts & high power contacts 20 A

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

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

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



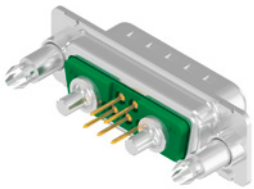


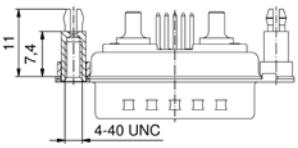
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR**69**E20X	3005W1PAR**69**E20X
7W2					3007W2SAR**69**E20X	3007W2PAR**69**E20X
9W4					3009W4SAR**69**E20X	3009W4PAR**69**E20X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

For other Power contacts select code from spread sheet

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

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





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

For other Power contacts select code from spread sheet

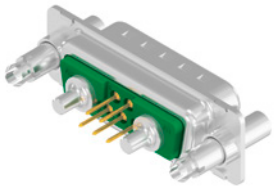
Code	Current rating	Diameter solder pin
69	20 A	2,60
71	30 A	3,18
72	40 A	3,75

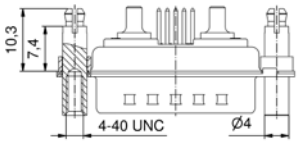
Combination D-SUB Connectors
With signal contacts & high power contacts 20 A

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

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

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



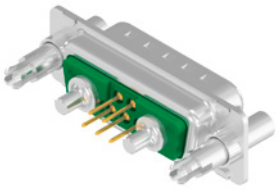


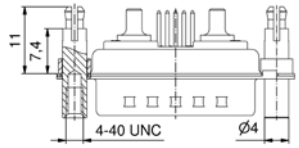
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR69F20X	3005W1PAR69F20X
7W2					3007W2SAR69F20X	3007W2PAR69F20X
9W4					3009W4SAR69F20X	3009W4PAR69F20X
11W1					3011W1SAR69F20X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

For other Power contacts select code from spread sheet

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

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





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

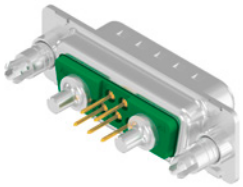
For other Power contacts select code from spread sheet

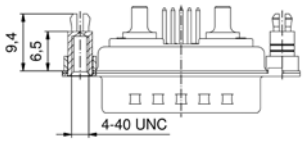
Code	Current rating	Diameter solder pin
69	20 A	2,60
71	30 A	3,18
72	40 A	3,75

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

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

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





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

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

For other Power contacts select code from spread sheet

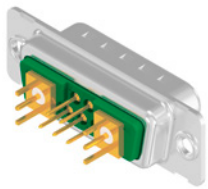
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

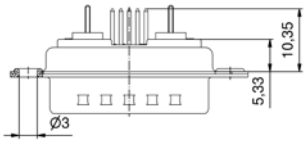
Combination D-SUB Connectors
With signal contacts & coaxial contacts 50 Ω

Solder pin, straight
Precision machined contacts

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

Through-hole Ø 3 mm



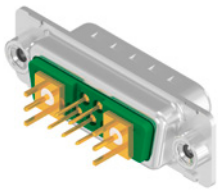


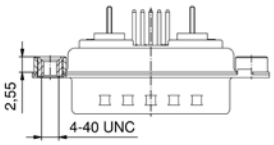
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR**76**A10X	3005W1PAR**76**A10X
7W2					3007W2SAR**76**A10X	3007W2PAR**76**A10X
9W4					3009W4SAR**76**A10X	3009W4PAR**76**A10X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

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

4-40 UNC threaded insert





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

For other coaxial contacts select code from spread sheet

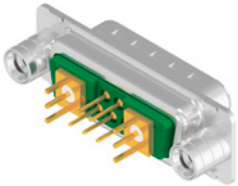
Code	Impedance
76	50 Ω
86	75 Ω

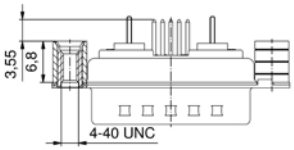
Combination D-SUB Connectors
With signal contacts & coaxial contacts 50 Ω

Solder pin, straight
Precision machined contacts

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

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 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR**76**A50X	3005W1PAR**76**A50X
7W2					3007W2SAR**76**A50X	3007W2PAR**76**A50X
9W4					3009W4SAR**76**A50X	3009W4PAR**76**A50X
11W1					3011W1SAR**76**A50X	3011W1PAR**76**A50X
13W3					3013W3SAR**76**A50X	3013W3PAR**76**A50X
13W6					3013W6SAR**76**A50X	3013W6PAR**76**A50X
17W2					3017W2SAR**76**A50X	3017W2PAR**76**A50X
17W5					3017W5SAR**76**A50X	3017W5PAR**76**A50X
21W1					3021W1SAR**76**A50X	3021W1PAR**76**A50X
24W7					3024W7SAR**76**A50X	3024W7PAR**76**A50X
25W3					3025W3SAR**76**A50X	3025W3PAR**76**A50X
27W2					3027W2SAR**76**A50X	3027W2PAR**76**A50X
36W4					3036W4SAR**76**A50X	3036W4PAR**76**A50X
43W2					3043W2SAR**76**A50X	3043W2PAR**76**A50X
47W1					3047W1SAR**76**A50X	3047W1PAR**76**A50X
21WA4					321WA4SAR**76**A50X	321WA4PAR**76**A50X

For other coaxial contacts select code from spread sheet

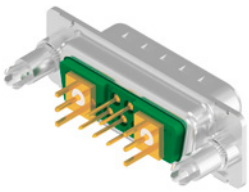
Code	Impedance
76	50 Ω
86	75 Ω

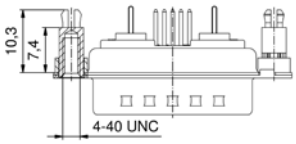
Combination D-SUB Connectors
With signal contacts & coaxial contacts 50 Ω

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

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

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

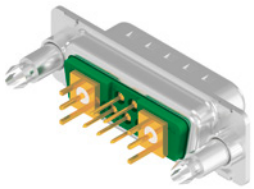


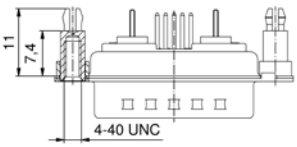


For other coaxial contacts select code from spread sheet	
Code	Impedance
76	50 Ω
86	75 Ω

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

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





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

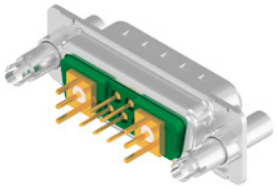
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR76E40X	3005W1PAR76E40X
7W2					3007W2SAR76E40X	3007W2PAR76E40X
9W4					3009W4SAR76E40X	3009W4PAR76E40X
11W1					3011W1SAR76E40X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

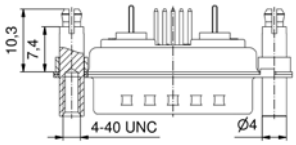
Combination D-SUB Connectors
With signal contacts & coaxial contacts 50 Ω

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

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

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



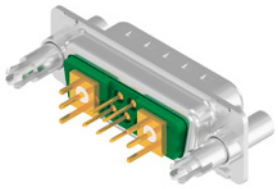


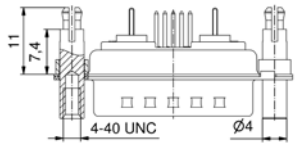
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR**76**F20X	3005W1PAR**76**F20X
7W2					3007W2SAR**76**F20X	3007W2PAR**76**F20X
9W4					3009W4SAR**76**F20X	3009W4PAR**76**F20X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

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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





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

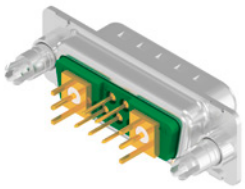
For other coaxial contacts select code from spread sheet

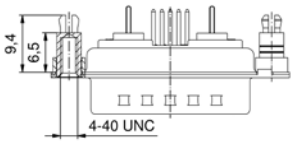
Code	Impedance
76	50 Ω
86	75 Ω

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





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

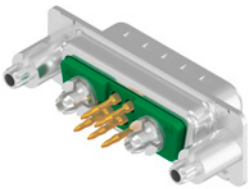
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cyles
On request:
- *Brass tin plated or stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

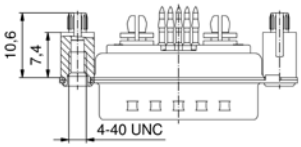
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR**76**C20X	3005W1PAR**76**C20X
7W2					3007W2SAR**76**C20X	3007W2PAR**76**C20X
9W4					3009W4SAR**76**C20X	3009W4PAR**76**C20X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

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





For other Power contacts select code from spread sheet		
Code	Current rating	Hole diameter PCB
P1	30 A	3.11
P2	30 A	3.25
P4	30 A	3.20

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

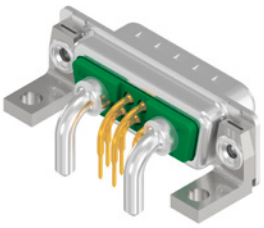
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAP**P1**W20X	3005W1PAP**P1**W20X
7W2					3007W2SAP**P1**W20X	3007W2PAP**P1**W20X
9W4					3009W4SAP**P1**W20X	3009W4PAP**P1**W20X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

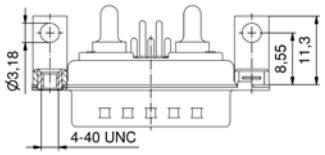
Combination D-SUB Connectors
With signal contacts & high power contacts 20 A

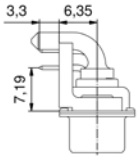
Solder pin, angled, 3.18"/7.19 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert



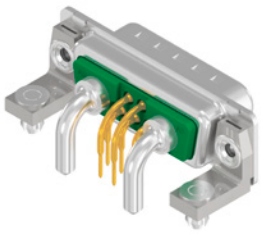


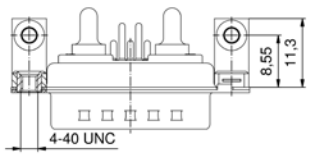


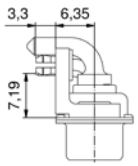
For other Power contacts select code from spread sheet			
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

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

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







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

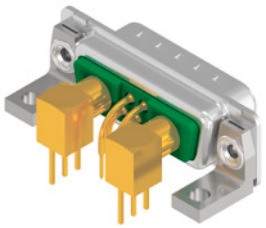
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAT**73**N40X
7W2					3007W2SAT**73**N40X
9W4					3009W4SAT**73**N40X
11W1					3011W1SAT**73**N40X
13W3					3013W3SAT**73**N40X
13W6					3013W6SAT**73**N40X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

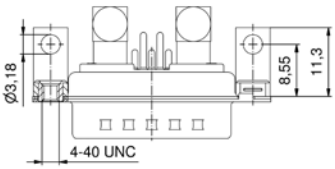
Combination D-SUB Connectors
With signal contacts & coaxial contacts 50 Ω

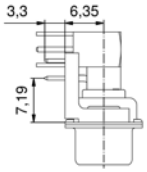
Solder pin, angled, 3.18"/7.19 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert





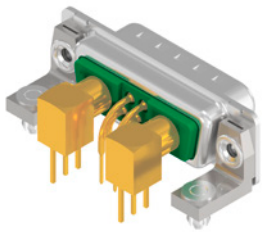


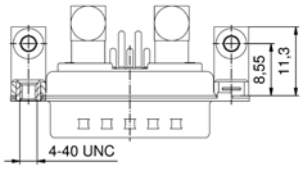
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAT**78**N20X
7W2					3007W2SAT**78**N20X
9W4					3009W4SAT**78**N20X
11W1					3011W1SAT**78**N20X
13W3					3013W3SAT**78**N20X
13W6					3013W6SAT**78**N20X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

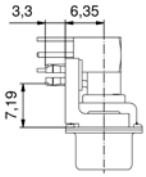
For other coaxial contacts select code from spread sheet

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

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







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

For other coaxial contacts select code from spread sheet

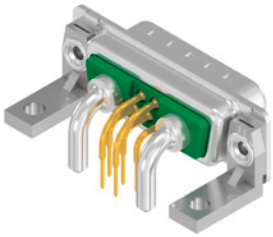
Code	Impedance	Shellsize
78	50 Ω	1-4
79	50 Ω	5
88	75 Ω	1-4
89	75 Ω	5

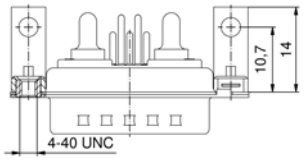
Combination D-SUB Connectors
With signal contacts & high power contacts 20 A

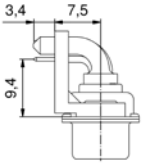
Solder pin, angled, 3.70"/9.4 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert





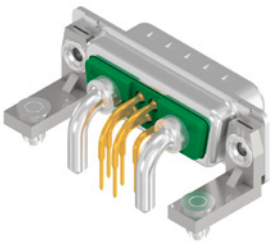


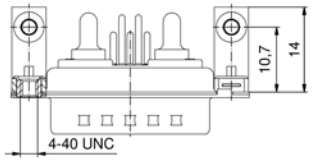
For other Power contacts select code from spread sheet

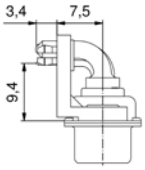
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

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

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







For other Power contacts select code from spread sheet

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

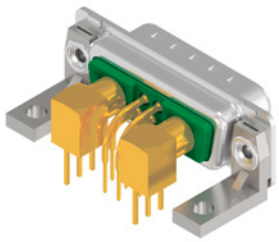
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAU**73**G40X
7W2					3007W2SAU**73**G40X
9W4					3009W4SAU**73**G40X
11W1					3011W1SAU**73**G40X
13W3					3013W3SAU**73**G40X
13W6					3013W6SAU**73**G40X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

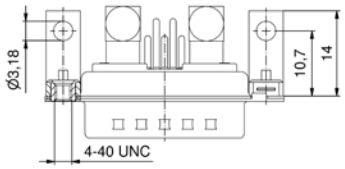
Combination D-SUB Connectors
With signal contacts & coaxial contacts 50 Ω

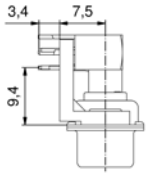
Solder pin, angled, 3.70"/9.4 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert



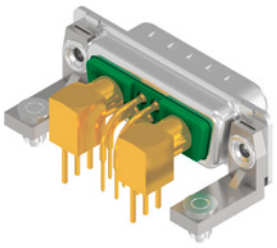


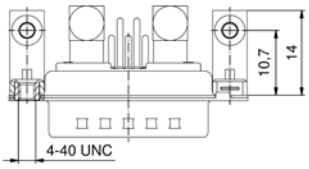


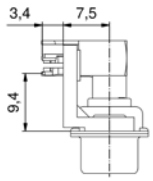
For other coaxial contacts select code from spread sheet		
Code	Impedance	Shellsize
78	50 Ω	1-4
79	50 Ω	5
88	75 Ω	1-4
89	75 Ω	5

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

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







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

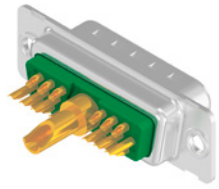
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAU**78**G40X
7W2					3007W2SAU**78**G40X
9W4					3009W4SAU**78**G40X
11W1					3011W1SAU**78**G40X
13W3					3013W3SAU**78**G40X
13W6					3013W6SAU**78**G40X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

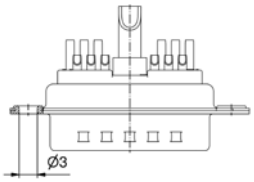
Combination D-SUB Connectors High Density
With signal contacts & high power contacts 20 A

Solder cup
Precision machined contacts, AWG 22

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

Through-hole Ø 3 mm



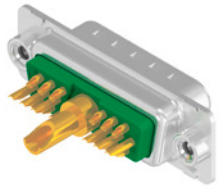


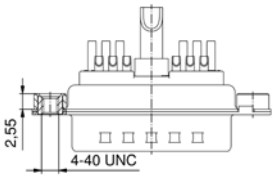
No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAM**62**A10X	3H15W4PAM**62**A10X
19W1				3H19W1SAM**62**A10X	3H19W1PAM**62**A10X
45W2				3H45W2SAM**62**A10X	3H45W2PAM**62**A10X

For other Power contacts select code from spread sheet

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

4-40 UNC threaded insert





No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAM**62**A30X	3H15W4PAM**62**A30X
19W1				3H19W1SAM**62**A30X	3H19W1PAM**62**A30X
45W2				3H45W2SAM**62**A30X	3H45W2PAM**62**A30X

For other Power contacts select code from spread sheet

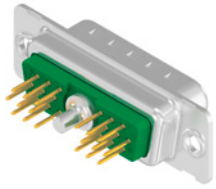
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A
63	10-12	30 A
64	8-10	40 A

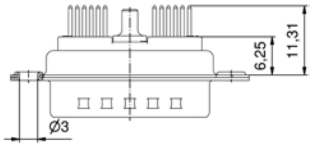
Combination D-SUB Connectors High Density
With signal contacts & high power contacts 20 A

Solder pin, straight
Precision machined contacts

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

Through-hole Ø 3 mm

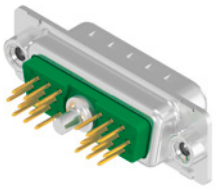


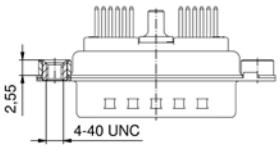


For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR**69**A10X	3H15W4PAR**69**A10X
19W1				3H19W1SAR**69**A10X	3H19W1PAR**69**A10X
45W2				3H45W2SAR**69**A10X	3H45W2PAR**69**A10X

4-40 UNC threaded insert

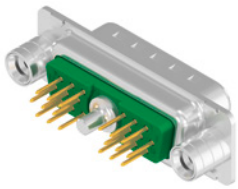


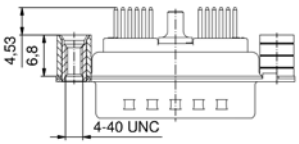


For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR**69**A30X	3H15W4PAR**69**A30X
19W1				3H19W1SAR**69**A30X	3H19W1PAR**69**A30X
45W2				3H45W2SAR**69**A30X	3H45W2PAR**69**A30X

4-40 UNC threaded rear spacer





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

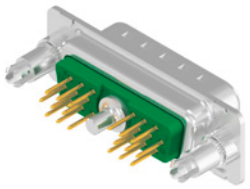
No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR**69**A50X	3H15W4PAR**69**A50X
19W1				3H19W1SAR**69**A50X	3H19W1PAR**69**A50X
45W2				3H45W2SAR**69**A50X	3H45W2PAR**69**A50X

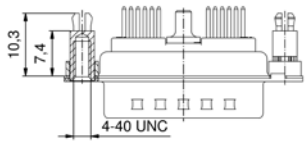
Combination D-SUB Connectors High Density
With signal contacts & high power contacts 20 A

Solder pin, straight
Precision machined contacts

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

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



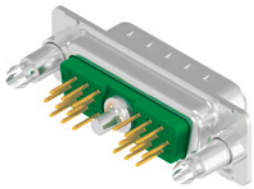


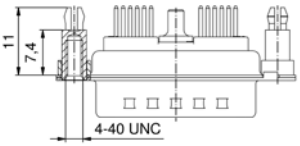
For other Power contacts select code from spread sheet

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

No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69E20X	3H15W4PAR69E20X
19W1				3H19W1SAR69E20X	3H19W1PAR69E20X
45W2				3H45W2SAR69E20X	3H45W2PAR69E20X

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



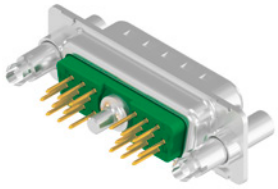


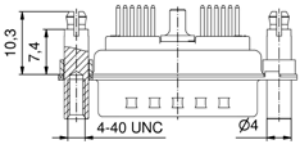
For other Power contacts select code from spread sheet

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

No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69E40X	3H15W4PAR69E40X
19W1				3H19W1SAR69E40X	3H19W1PAR69E40X
45W2				3H45W2SAR69E40X	3H45W2PAR69E40X

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





For other Power contacts select code from spread sheet

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

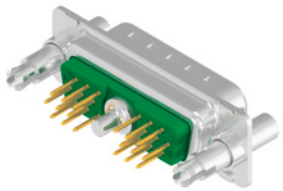
No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69F20X	3H15W4PAR69F20X
19W1				3H19W1SAR69F20X	3H19W1PAR69F20X
45W2				3H45W2SAR69F20X	3H45W2PAR69F20X

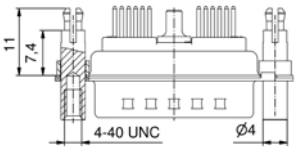
Combination D-SUB Connectors High Density
With signal contacts & high power contacts 20 A

Solder pin, straight
Precision machined contacts

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

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





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

For other Power contacts select code from spread sheet

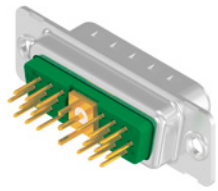
Code	Current rating	Diameter solder pin
69	20 A	2,60
71	30 A	3,18
72	40 A	3,75

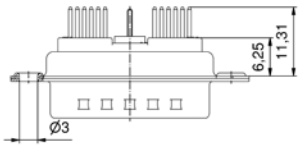
Combination D-SUB Connectors High Density
With signal contacts & coaxial contacts 50 Ω

Solder pin, straight
Precision machined contacts

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

Through-hole Ø 3 mm



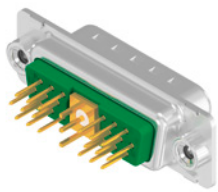


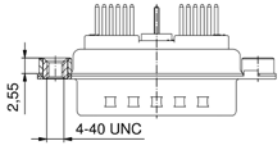
No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR**76**A10X	3H15W4PAR**76**A10X
19W1				3H19W1SAR**76**A10X	3H19W1PAR**76**A10X
45W2				3H45W2SAR**76**A10X	3H45W2PAR**76**A10X

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

4-40 UNC threaded insert





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

For other coaxial contacts select code from spread sheet

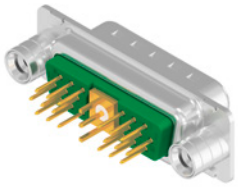
Code	Impedance
76	50 Ω
86	75 Ω

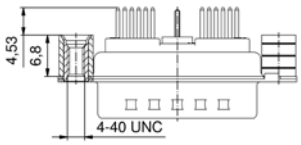
Combination D-SUB Connectors High Density
With signal contacts & coaxial contacts 50 Ω

Solder pin, straight
Precision machined contacts

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

4-40 UNC threaded rear spacer

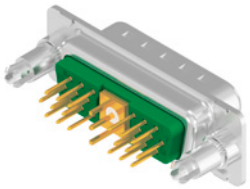


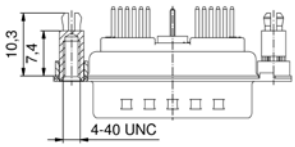


For other coaxial contacts select code from spread sheet	
Code	Impedance
76	50 Ω
86	75 Ω

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

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

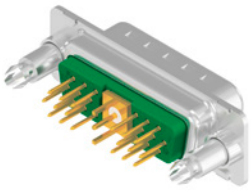


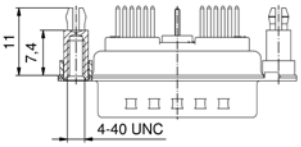


For other coaxial contacts select code from spread sheet	
Code	Impedance
76	50 Ω
86	75 Ω

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

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





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

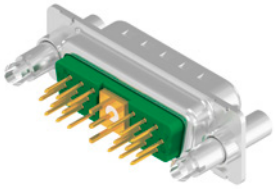
No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR**76**E40X	3H15W4PAR**76**E40X
19W1				3H19W1SAR**76**E40X	3H19W1PAR**76**E40X
45W2				3H45W2SAR**76**E40X	3H45W2PAR**76**E40X

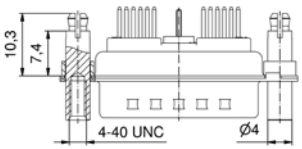
Combination D-SUB Connectors High Density
With signal contacts & coaxial contacts 50 Ω

Solder pin, straight
Precision machined contacts

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

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

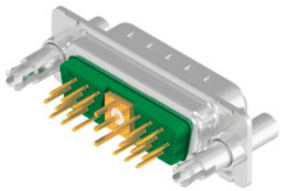


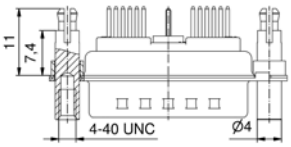


For other coaxial contacts select code from spread sheet	
Code	Impedance
76	50 Ω
86	75 Ω

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

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





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

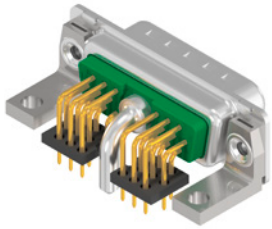
No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR**76**F40X	3H15W4PAR**76**F40X
19W1				3H19W1SAR**76**F40X	3H19W1PAR**76**F40X
45W2				3H45W2SAR**76**F40X	3H45W2PAR**76**F40X

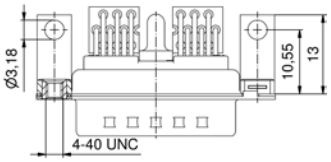
Combination D-SUB Connectors High Density
With signal contacts & high power contacts 20 A

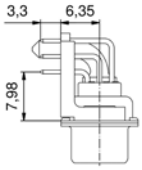
Solder pin, angled, 3.50"/7.98 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert





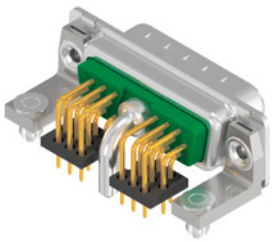


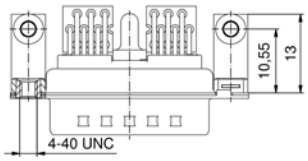
For other Power contacts select code from spread sheet

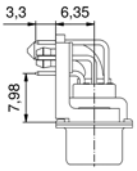
Code	Current rating	Diameter solder pin
59	15 A	1.90
73	20 A	2.85
74	30 A	3.20
75	40 A	3.75

No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAT**73**G60X	3H15W4PAT**73**G60X
19W1				3H19W1SAT**73**G60X	3H19W1PAT**73**G60X
45W2				3H45W2SAT**73**G60X	3H45W2PAT**73**G60X

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







For other Power contacts select code from spread sheet

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

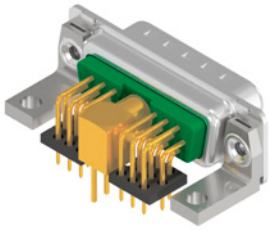
No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAT**73**G80X	3H15W4PAT**73**G80X
19W1				3H19W1SAT**73**G80X	3H19W1PAT**73**G80X
45W2				3H45W2SAT**73**G80X	3H45W2PAT**73**G80X

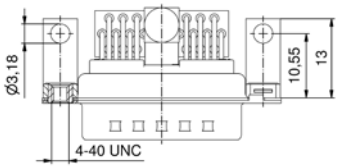
Combination D-SUB Connectors High Density
With signal contacts & coaxial contacts 50 Ω

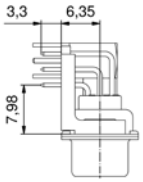
Solder pin, angled, 3.50"/7.98 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert



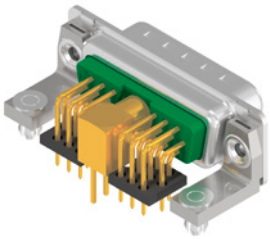


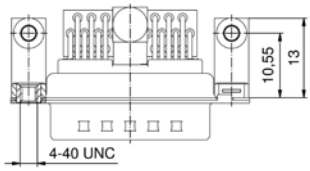


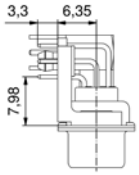
For other coaxial contacts select code from spread sheet	
Code	Impedance
78	50 Ω
88	75 Ω

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

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







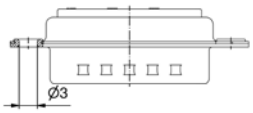
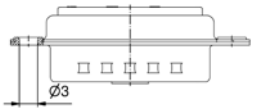
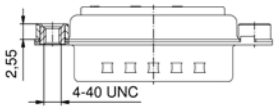
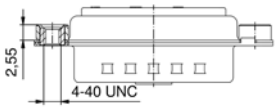
For other coaxial contacts select code from spread sheet	
Code	Impedance
78	50 Ω
88	75 Ω

No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAT**78**G80X	3H15W4PAT**78**G80X
19W1				3H19W1SAT**78**G80X	3H19W1PAT**78**G80X
45W2				3H45W2SAT**78**G80X	3H45W2PAT**78**G80X

Combination D-SUB Connectors
Without contacts

For straight high power, coaxial or High voltage contacts

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

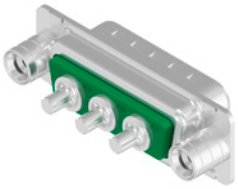
		No. of poles	*UL-File*	*Part No. Socket contact*	*Part No. Plug contact*
Through-hole Ø 3 mm					
		3W3	E228329	3003W3SXX**99**A10X	3003W3PXX**99**A10X
		5W5		3005W5SXX**99**A10X	3005W5PXX**99**A10X
		8W8		3008W8SXX**99**A10X	3008W8PXX**99**A10X
Through-hole Ø 3 mm, coded version					
		2W2C	E228329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

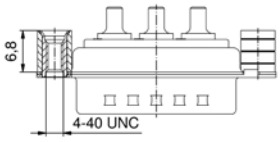
Combination D-SUB Connectors
With high power contacts 20 A

Solder pin, straight

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

4-40 UNC threaded rear spacer



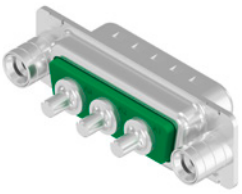


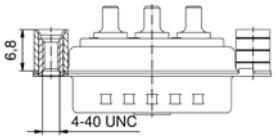
For other Power contacts select code from spread sheet

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

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

4-40 UNC, threaded rear spacer, coded version



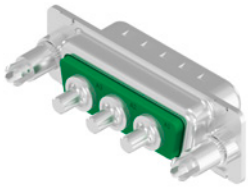


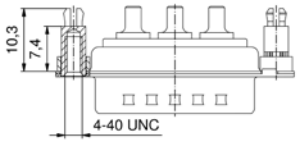
For other Power contacts select code from spread sheet

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

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

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





For other Power contacts select code from spread sheet

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

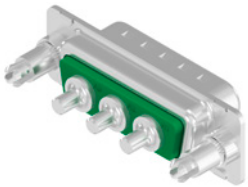
No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	E228329	3	3003W3SXX**69**E20X	3003W3PXX**69**E20X
5W5			3005W5SXX**69**E20X	3005W5PXX**69**E20X
8W8			3008W8SXX**69**E20X	3008W8PXX**69**E20X

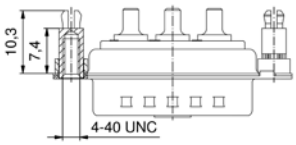
Combination D-SUB Connectors
With high power contacts 20 A

Solder pin, straight

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

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

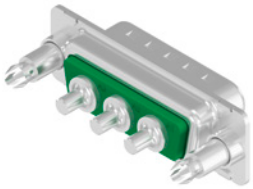


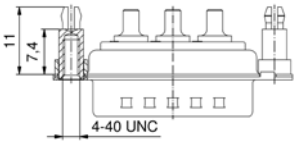


For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

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

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

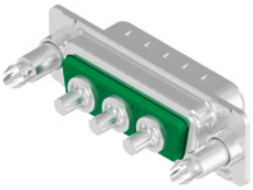


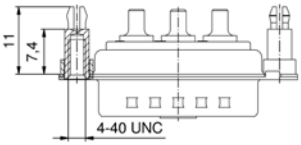


For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
69	20 A	2,60
71	30 A	3,18
72	40 A	3,75

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

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





For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
69	20 A	2,60
71	30 A	3,18
72	40 A	3,75

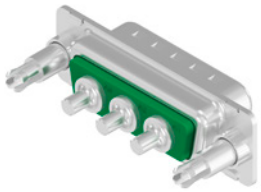
No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	E228329	3	302W2CSXX**69**E40X	302W2CPXX**69**E40X
3W3C			303W3CSXX**69**E40X	303W3CPXX**69**E40X

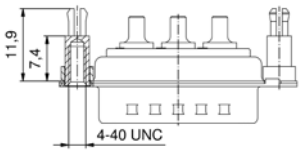
Combination D-SUB Connectors
With high power contacts 20 A

Solder pin, straight

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

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

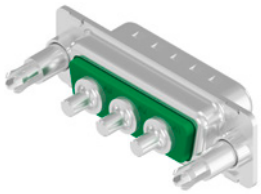


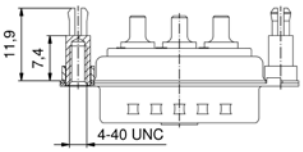


For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
69	20 A	2,60
71	30 A	3,18
72	40 A	3,75

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

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





For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
69	20 A	2,60
71	30 A	3,18
72	40 A	3,75

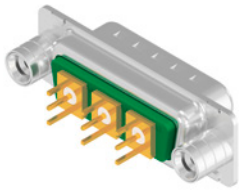
No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	E228329	3	302W2CSXX**69**E60X	302W2CPXX**69**E60X
3W3C			303W3CSXX**69**E60X	303W3CPXX**69**E60X

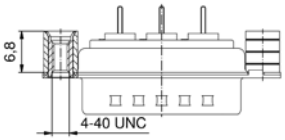
Combination D-SUB Connectors
With coaxial contacts 50 Ω

Solder pin, straight

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

4-40 UNC threaded rear spacer

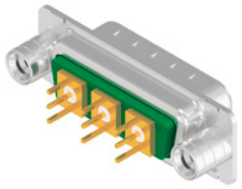


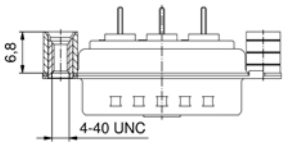


For other coaxial contacts select code from spread sheet	
Code	Impedance
76	50 Ω
86	75 Ω

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

4-40 UNC, threaded rear spacer, coded version

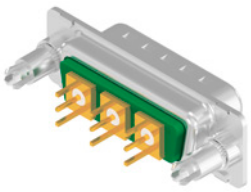


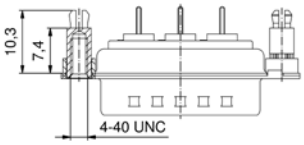


For other coaxial contacts select code from spread sheet	
Code	Impedance
76	50 Ω
86	75 Ω

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

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





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

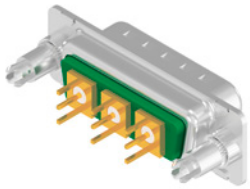
No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	E228329	3	3003W3SXX**76**E20X	3003W3PXX**76**E20X
5W5			3005W5SXX**76**E20X	3005W5PXX**76**E20X
8W8			3008W8SXX**76**E20X	3008W8PXX**76**E20X

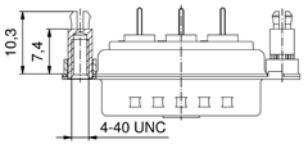
Combination D-SUB Connectors
With coaxial contacts 50 Ω

Solder pin, straight

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

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

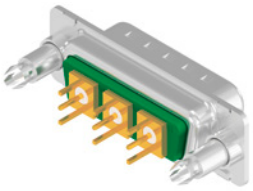


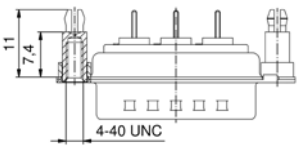


For other coaxial contacts select code from spread sheet	
Code	Impedance
76	50 Ω
86	75 Ω

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

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

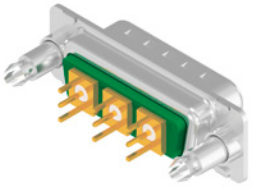


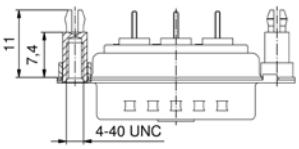


For other coaxial contacts select code from spread sheet	
Code	Impedance
76	50 Ω
86	75 Ω

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

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





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

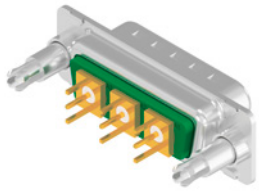
No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	E228329	3	302W2CSXX**76**E40X	302W2CPXX**76**E40X
3W3C			303W3CSXX**76**E40X	303W3CPXX**76**E40X

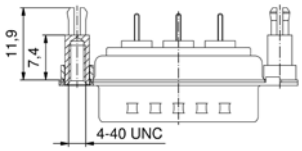
Combination D-SUB Connectors
With coaxial contacts 50 Ω

Solder pin, straight

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

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



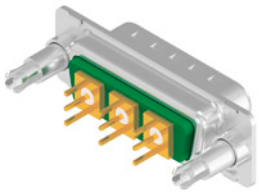


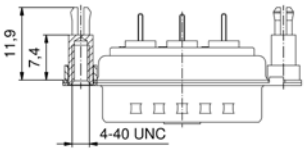
No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	E228329	3	3003W3SXX**76**E60X	3003W3PXX**76**E60X
5W5			3005W5SXX**76**E60X	3005W5PXX**76**E60X
8W8			3008W8SXX**76**E60X	3008W8PXX**76**E60X

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





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

For other coaxial contacts select code from spread sheet

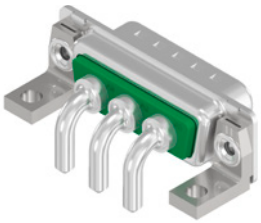
Code	Impedance
76	50 Ω
86	75 Ω

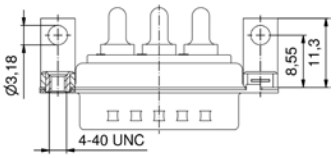
Combination D-SUB Connectors
With high power contacts 20 A

Solder pin, angled
Short metal bracket

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

4-40 UNC threaded insert

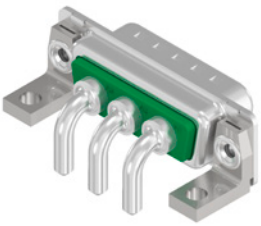


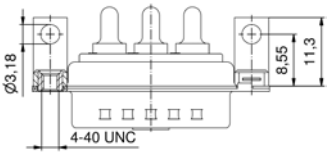


For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
59	15 A	1.90
73	20 A	2.85
74	30 A	3.20
75	40 A	3.75

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

4-40 UNC threaded insert, coded version

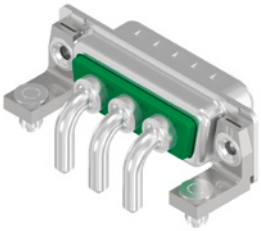


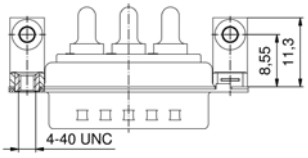


For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
59	15 A	1.90
73	20 A	2.85
74	30 A	3.20
75	40 A	3.75

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

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





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

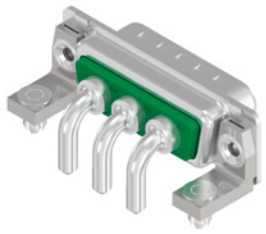
No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	E228329	3	3003W3SXX**73**N40X	3003W3PXX**73**N40X
5W5			3005W5SXX**73**N40X	3005W5PXX**73**N40X
8W8			3008W8SXX**73**N40X	3008W8PXX**73**N40X

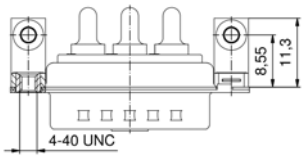
Combination D-SUB Connectors
With high power contacts 20 A

Solder pin, angled
Short metal bracket

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

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



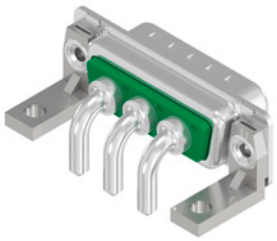


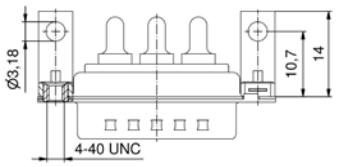
For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
59	15 A	1.90
73	20 A	2.85
74	30 A	3.20
75	40 A	3.75

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

Solder pin, angled
Long metal bracket

4-40 UNC threaded insert

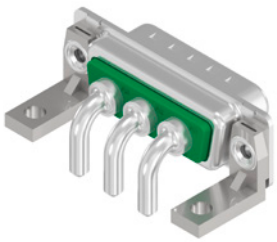


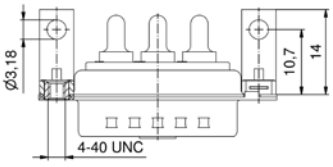


For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
59	15 A	1.90
73	20 A	2.85
74	30 A	3.20
75	40 A	3.75

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

4-40 UNC threaded insert, coded version





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

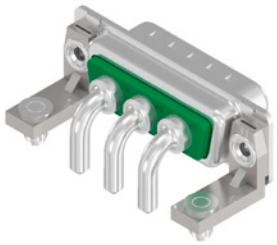
No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	E228329	3	302W2CSXX73G20X	302W2CPXX73G20X
3W3C			303W3CSXX73G20X	303W3CPXX73G20X

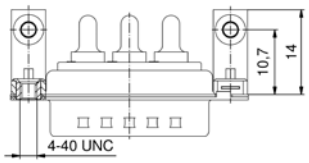
Combination D-SUB Connectors
With high power contacts 20 A

Solder pin, angled
Long metal bracket

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

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

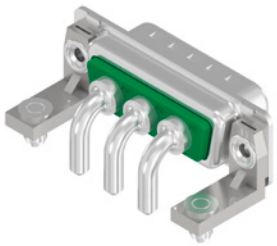


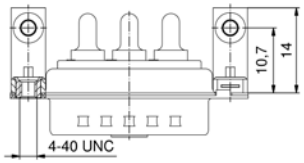


For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
59	15 A	1.90
73	20 A	2.85
74	30 A	3.20
75	40 A	3.75

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

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





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

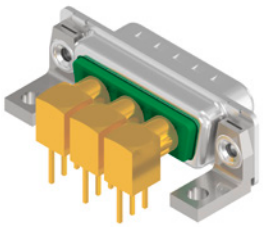
No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	E228329	3	302W2CSXX**73**G40X	302W2CPXX**73**G40X
3W3C			303W3CSXX**73**G40X	303W3CPXX**73**G40X

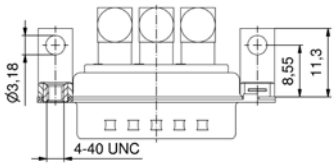
Combination D-SUB Connectors
With coaxial contacts 50 Ω

Solder pin, angled
Short metal bracket

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

4-40 UNC threaded insert

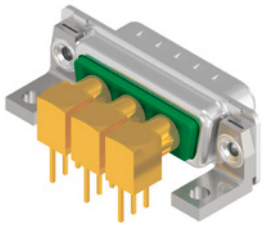


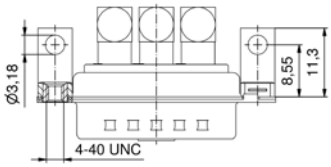


For other coaxial contacts select code from spread sheet	
Code	Impedance
78	50 Ω
88	75 Ω

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

4-40 UNC threaded insert, coded version

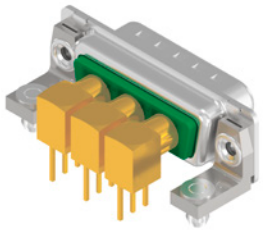


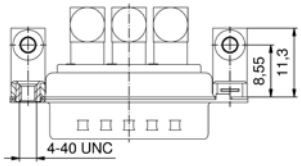


For other coaxial contacts select code from spread sheet	
Code	Impedance
78	50 Ω
88	75 Ω

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

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





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

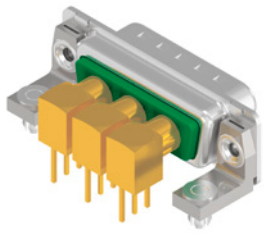
No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	E228329	3	3003W3SXX**78**N40X	3003W3PXX**78**N40X
5W5			3005W5SXX**78**N40X	3005W5PXX**78**N40X
8W8			3008W8SXX**78**N40X	3008W8PXX**78**N40X

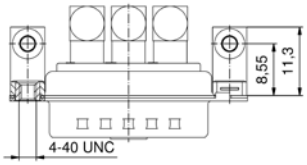
Combination D-SUB Connectors
With coaxial contacts 50 Ω

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

Solder pin, angled
Short metal bracket

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



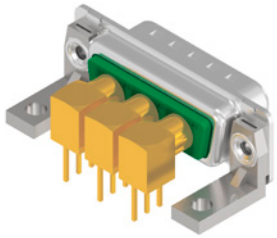


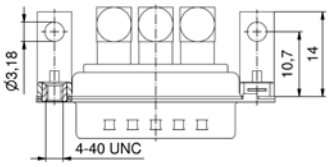
For other coaxial contacts select code from spread sheet	
Code	Impedance
78	50 Ω
88	75 Ω

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

Solder pin, angled
Long metal bracket

4-40 UNC threaded insert

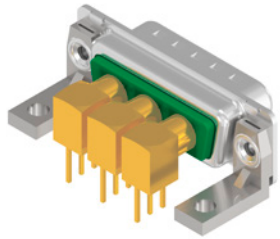


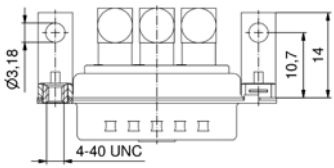


For other coaxial contacts select code from spread sheet	
Code	Impedance
78	50 Ω
88	75 Ω

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

4-40 UNC threaded insert, coded version





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

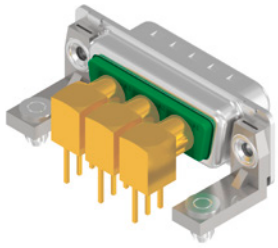
No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	E228329	3	302W2CSXX**78**G20X	302W2CPXX**78**G20X
3W3C			303W3CSXX**78**G20X	303W3CPXX**78**G20X

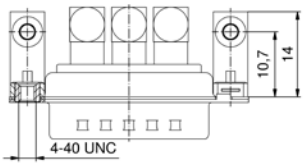
Combination D-SUB Connectors
With coaxial contacts 50 Ω

Solder pin, angled
Long metal bracket

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

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

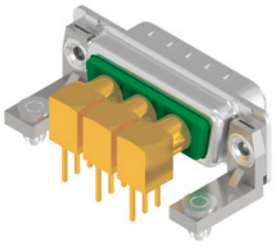


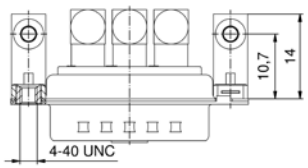


For other coaxial contacts select code from spread sheet	
Code	Impedance
78	50 Ω
88	75 Ω

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

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





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

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

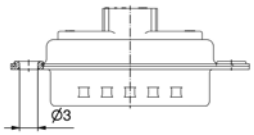
Combination D-SUB Connectors
Without contacts

Crimp body
AWG 20-24 and AWG 26-28

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

Through-hole Ø 3 mm

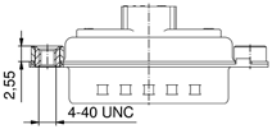




No. of poles	UL-File	Part No. Socket contact	Part No. Plug contact
5W1	E228329	3005W1SXK**99**A10X	3005W1PXK**99**A10X
7W2		3007W2SXK**99**A10X	3007W2PXK**99**A10X
9W4		3009W4SXK**99**A10X	3009W4PXK**99**A10X
11W1		3011W1SXK**99**A10X	3011W1PXK**99**A10X
13W3		3013W3SXK**99**A10X	3013W3PXK**99**A10X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

4-40 UNC threaded insert





No. of poles	UL-File	Part No. Socket contact	Part No. Plug contact
5W1	E228329	3005W1SXK**99**A30X	3005W1PXK**99**A30X
7W2		3007W2SXK**99**A30X	3007W2PXK**99**A30X
9W4		3009W4SXK**99**A30X	3009W4PXK**99**A30X
11W1		3011W1SXK**99**A30X	3011W1PXK**99**A30X
13W3		3013W3SXK**99**A30X	3013W3PXK**99**A30X
13W6		3013W6SXK**99**A30X	3013W6PXK**99**A30X
17W2		3017W2SXK**99**A30X	3017W2PXK**99**A30X
17W5		3017W5SXK**99**A30X	3017W5PXK**99**A30X
21W1		3021W1SXK**99**A30X	3021W1PXK**99**A30X
24W7		3024W7SXK**99**A30X	3024W7PXK**99**A30X
25W3		3025W3SXK**99**A30X	3025W3PXK**99**A30X
27W2		3027W2SXK**99**A30X	3027W2PXK**99**A30X
36W4		3036W4SXK**99**A30X	3036W4PXK**99**A30X
43W2		3043W2SXK**99**A30X	3043W2PXK**99**A30X
47W1		3047W1SXK**99**A30X	3047W1PXK**99**A30X
21WA4		321WA4SXK**99**A30X	321WA4PXK**99**A30X

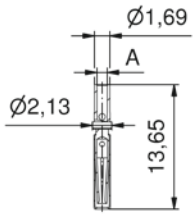
Combination D-SUB Connectors
Contacts

Signal contacts
crimp

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

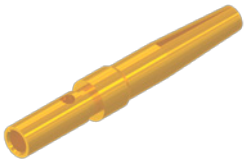
Socket contact closed entry

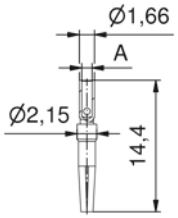




AWG	Current rating [A]	ØA [mm]	Quality class	UL-File	Part No.
20-24	7.5 (UL) / 5 (CSA, VDE)	1.12	C	E228329	132C15019X
24-28		0.6			132C15029X

Socket contact





AWG	Current rating [A]	ØA [mm]	Quality class	UL-File	Part No.
20-24	7.5 (UL) / 5 (CSA, VDE)	1.12	A	E228329	162A18709X
24-28		0.64			162A18719X

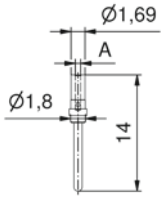
Combination D-SUB Connectors
Contacts

Signal contacts
crimp

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

Plug contact





AWG	Current rating [A]	ØA [mm]	Quality class	UL-File	Part No.
20-24	7.5 (UL) / 5 (CSA, VDE)	1.1	A	E228329	131A15019X
24-28		0.65			131A15029X

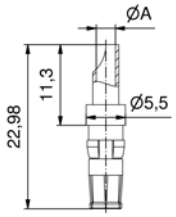
Combination D-SUB Connectors
Contacts

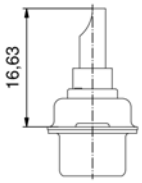
High power contacts
Solder cup, straight

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

Socket contact





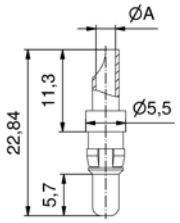


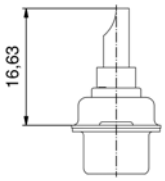


AWG	Current rating [A]	Code use with part no. creator	Ø Termination A= [mm]	Quality class	UL-File	Part No.
16-20	10	41	1.8	C	E228329	132C10019X
		61		A		132A10019X
12-14	20	42	2.7	C		132C10029X
		62		A		132A10029X
10-12	30	43	3.5	C		132C10039X
		63		A		132A10039X
8-10	40	44	4.8	C		132C10049X
		64		A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

Plug contact









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

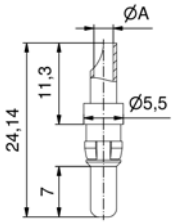
Combination D-SUB Connectors
Contacts

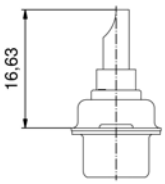
High power contacts
Solder cup, straight

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

Plug contact, premating





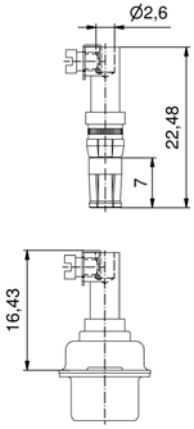
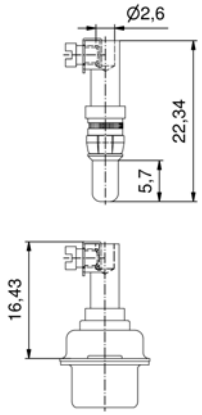
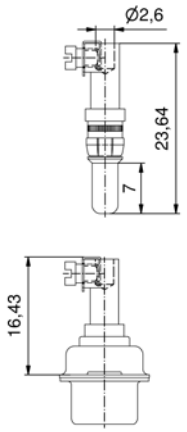




AWG	Current rating [A]	Ø Termination A= [mm]	Quality class	UL-File	Part No.
16-20	10	1.8	C	E228329	131C10119X
12-14	20	2.7			131C10129X
10-12	30	3.5			131C10139X
8-10	40	4.8			131C10149X

High power contacts
Screw termination

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

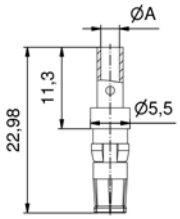
		AWG	Current rating [A]		UL-File	Part No.
Socket contact						
		14	20	C	E228329	132C36009X
				A		132A36009X
Plug contact						
		14	20	C	E228329	131C36009X
				A		131A36009X
Plug contact, premating						
		14	20	C	E228329	131C36109X

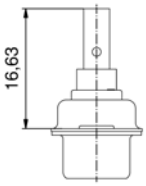
Combination D-SUB Connectors
Contacts

High power contacts
Crimp, straight

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

Socket contact

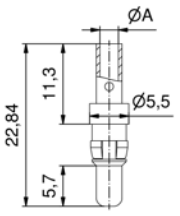



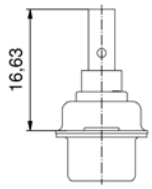




AWG	Current rating [A]	Ø Termination A= [mm]	Quality class	UL-File	Part No.
16-20	10	1.7	C	E228329	132C11019X
			A		132A11019X
12-14	20	2.6	C		132C11029X
			A		132A11029X
10-12	30	3.7	C		132C11039X
			A		132A11039X
8-10	40	4.6	C		132C11049X
			A		132A11049X

Plug contact

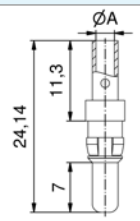



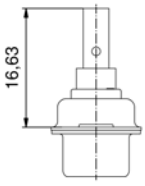




AWG	Current rating [A]	Ø Termination A= [mm]	Quality class	UL-File	Part No.
16-20	10	1.7	C	E228329	131C11019X
			A		131A11019X
12-14	20	2.6	C		131C11029X
			A		131A11029X
10-12	30	3.7	C		131C11039X
			A		131A11039X
8-10	40	4.6	C		131C11049X
			A		131A11049X

Plug contact, premating





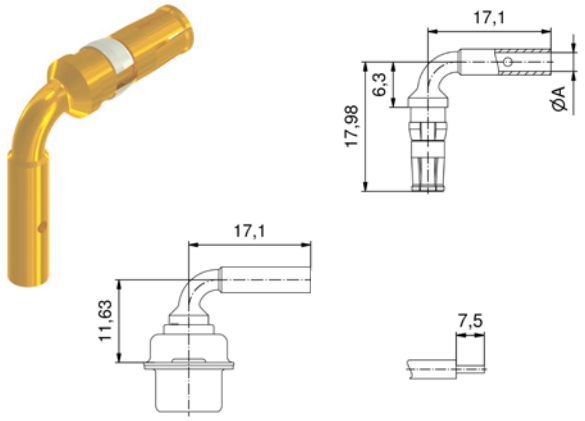
AWG	Current rating [A]	Ø Termination A= [mm]	Quality class	UL-File	Part No.
16-20	10	1.7	C	E228329	131C11119X
12-14	20	2.6			131C11129X
10-12	30	3.7			131C11139X
8-10	40	4.6			131C11149X

Combination D-SUB Connectors
Contacts

High power contacts
Crimp, angled

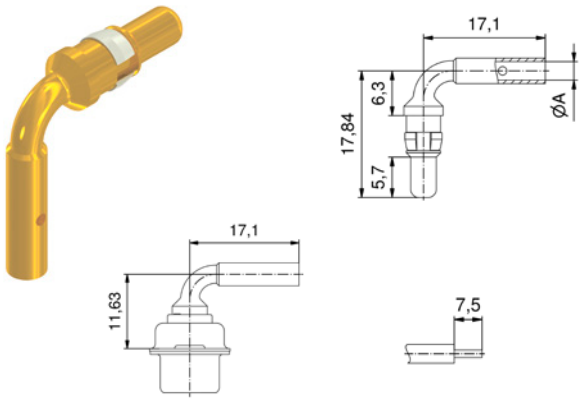
Quality class 3 (A) = 50 mating cyles
Quality class 1 (C) = 500 mating cycles

Socket contact



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

Plug contact



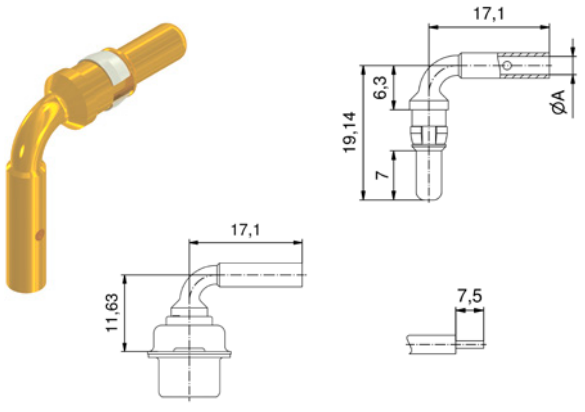
AWG	Current rating [A]	Ø Termination A= [mm]	Quality class	UL-File	Part No.
16-20	10	1.7	C	E228329	131C16019X
			A		131A16019X
12-14	20	2.6	C		131C16029X
10-12		3.7	A		131A16029X
8-10	30	4.6	C		131C16039X
			A		131A16039X
12-14	40	2.6	C		131C16049X
10-12		3.7	A		131A16049X

Combination D-SUB Connectors
Contacts

High power contacts
Crimp, angled

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

Plug contact, premating



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

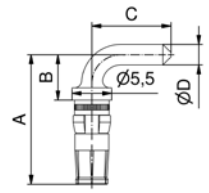
Combination D-SUB Connectors
Contacts

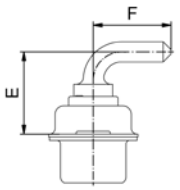
High power contacts
Solder pin, angled

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

Socket contact







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

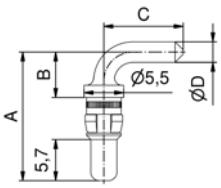
Shellsize	Current rating [A]	Termination	A	B	C	D Ø	E	F
1-4	15	55/59	14.68	3.00	10.50	1.90	8.35	10.50
1-4	20	56/73	17.98	6.30	11.00	2.85	11.65	11.00
1-4	30	57/74	26.68	15.00	9.50	3.20	20.35	9.50
1-4	40	58/75	17.98	6.30	11.00	3.75	11.65	11.00
5	20	66/81	20.53	8.85	14.00	2.85	14.20	12.58
5	30	67/82	20.53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

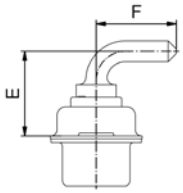
High power contacts
Solder pin, angled

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

Plug contact







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

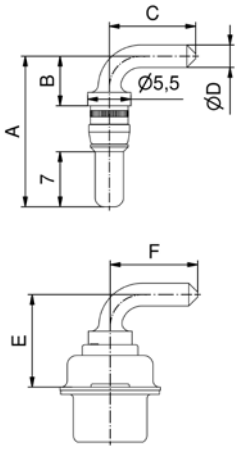
Shellsize	Current rating [A]	Termination	A	B	C	D Ø	E	F
1-4	15	55/59	14.54	3.00	10.50	1.90	8.35	10.50
1-4	20	56/73	17.84	6.30	11.00	2.85	11.65	11.00
1-4	30	57/74	26.54	15.00	9.50	3.20	20.35	9.50
1-4	40	58/75	17.84	6.30	11.00	3.75	11.65	11.00
5	20	66/81	20.39	8.85	14.00	2.85	14.20	12.58
5	30	67/82	20.39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

High power contacts
Solder pin, angled

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

Plug contact, premating





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

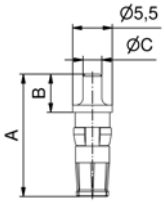
Shellsize	Current rating [A]	A	B	C	D Ø	E	F
1-4	15	15.84	3.00	10.50	1.90	8.35	10.50
1-4	20	19.14	6.30	11.00	2.85	11.65	11.00
1-4	30	27.84	15.00	9.50	3.20	20.35	9.50
1-4	40	19.14	6.30	11.00	3.75	11.65	11.00
5	20	21.65	8.85	14.00	2.85	14.20	12.58
5	30	21.65	8.85	14.00	3.20	14.20	12.58
5	30	27.84	15.00	13.50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

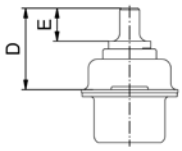
High power contacts
Solder pin, straight

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

Socket contact





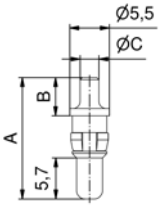


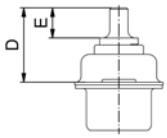
Shell size	Current rating [A]	Code use with part no. creator	Hole diameter of PCB [mm]	Quality class	UL-File	Part No.
1-5	20	48	2.3	C	E228329	132C12019X
		68		A		132A12019X
		49	3	C		132C12029X
		69		A		132A12029X
		50	3.2	C		132C12039X
		70		A		132A12039X
	30	51	3.6	C		132C12049X
		71		A		132A12049X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

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

Plug contact







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

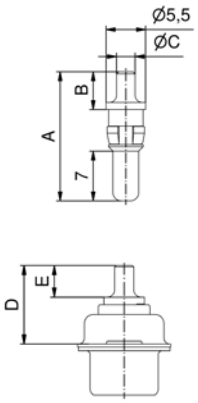
Current rating [A]	Termination	A	B	C Ø	D	E
20	48/68	15.84	4.60	1.95	9.65	3.80
20	49/69	16.84	5.30	2.60	10.65	4.30
20	50/70	16.24	4.70	2.85	10.05	3.70
30	51/71	19.04	7.50	3.18	12.85	6.70
40	52/72	17.29	5.75	3.75	11.10	4.75

High power contacts
Solder pin, straight

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

Plug contact, premating





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

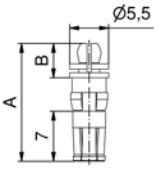
Current rating [A]	A	B	C Ø	D	E
20	17.14	4.60	1.95	9.65	3.80
20	18.14	5.30	2.60	10.65	4.30
20	17.54	4.70	2.85	10.05	3.70
30	20.34	7.50	3.18	12.85	6.70
40	18.59	5.75	3.75	11.10	4.75

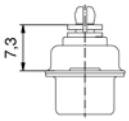
High power contacts
Press-fit version, straight

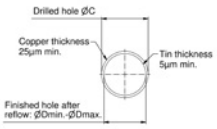
Quality class 1 (C) = 500 mating cyles
On request:
- *Quality class 3 (A) = 50 mating cycles*

Socket contact







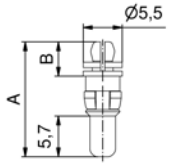


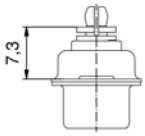
Shell size	Current rating [A]	Code use with part no. creator	Hole diameter of PCB [mm]	Quality class	UL-File	Part No.
1-5	30	P1	3.11	C	E228329	132C00229A
		P2	3.25			132C00299A
		P4	3.2			132C19019X

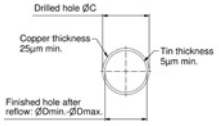
Current rating [A]	Termination	A	B	C Ø ±0.03	D min.	D max.
30	P1	16.48	4.80	3.13	2.96	3.11
30	P2	16.48	4.80	3.27	3.10	3.25
30	P3	16.08	4.40	3.22	3.02	3.20

Plug contact







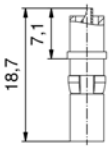
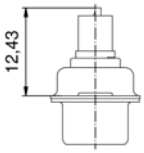
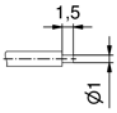
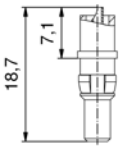
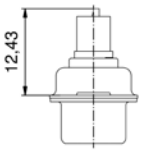
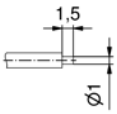


Shell size	Current rating [A]	Code use with part no. creator	Hole diameter of PCB [mm]	Quality class	UL-File	Part No.
1-5	30	P1	3.11	C	E228329	131C00319A
		P2	3.25			131C00389A
		P4	3.2			131C19019X

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

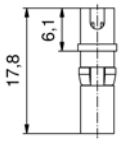
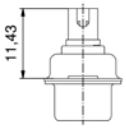
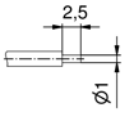
High voltage contacts
Solder termination, straight

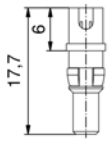
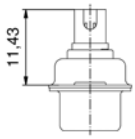
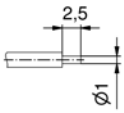
Quality class J >= 500 mating cyles

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

High voltage contacts
Solder termination, angled

Quality class J >= 500 mating cyles

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

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

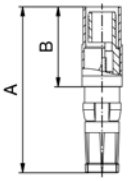
Combination D-SUB Connectors
Contacts

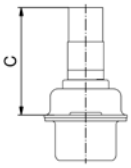
Coaxial contacts, straight
Inner conductor solder-, outer conductor crimp-/solder termination

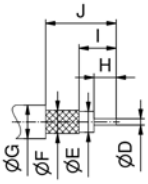
Quality class J >= 500 mating cyles
Quality class 3 (A) = 50 mating cyles

Socket contact







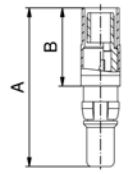


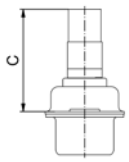
Impedance [Ω]	Cable	Quality class	UL-File	Part No.
50	178 B/U, 196 A/U, 404 /U	J	E228329	132J20019X
		A		132A20019X
	174 /U, 188 A/U, 316 /U	J		132J20029X
		A		132A20029X
	180 B/U	J		132J20039X
		A		132A20039X
	58 C/U, 141 A/U	J		132J20049X
		A		132A20049X
	316 /U double braided	J		132J20059X
		A		132A20059X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

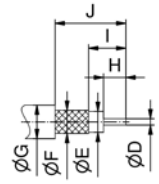
Impedance Ω	Usable Cable RG	A	B	C	D Ø	E Ø	F Ø	G Ø	H	I	J
50	178BU, 196AU,404 U	23.00	11.20	17.55	0.85	1.20	1.40	2.30	3.00	5.00	9.50
	174U, 188AU, 316U	23.00	11.20	17.55	0.85	1.90	2.30	3.20	3.00	5.00	9.50
	180BU	23.00	11.20	17.55	0.85	2.80	3.10	4.50	3.00	5.00	9.50
	58CU, 141AU	26.80	14.80	20.15	1.00	3.00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

Plug contact









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

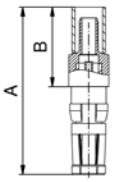
Impedance Ω	Usable Cable RG	A	B	C	D Ø	E Ø	F Ø	G Ø	H	I	J
50	178BU, 196AU,404 U	22.50	11.20	17.55	0.85	1.20	1.40	2.30	3.00	5.00	9.50
	174U, 188AU, 316U	22.50	11.20	17.55	0.85	1.90	2.30	3.20	3.00	5.00	9.50
	180BU	22.50	11.20	17.55	0.85	2.80	3.10	4.50	3.00	5.00	9.50
	58CU, 141AU	26.30	14.80	20.15	1.00	3.00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

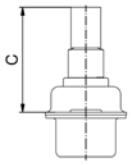
Coaxial contacts, straight
Inner and outer conductor crimp termination

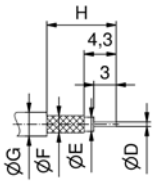
Quality class J >= 500 mating cyles
Quality class 3 (A) = 50 mating cyles

Socket contact







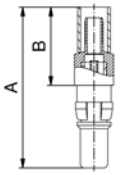


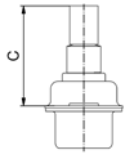
Impedance [Ω]	Cable	Quality class	UL-File	Part No.
50	174 /U, 188 A/U, 316 /U	J	E228329	132J21019X
		A		132A21019X
	316 /U double braided	J		132J21029X
		A		132A21029X
	58 C/U, 141 A/U	J		132J21039X
		A		132A21039X
75	179 B/U, 187 A/U	J		132J31019X
		A		132A31019X
	180 B/U	J		132J31029X
		A		132A31029X

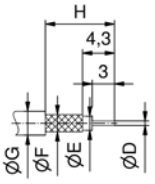
Impedance Ω	Usable Cable RG	A	B	C	D Ø	E Ø	F Ø	G Ø	H
50	174U, 188AU, 316U	23.00	11.20	16.60	0.60	1.90	2.30	3.20	9.30
	316U double braided	23.00	11.20	16.60	0.60	1.90	3.00	3.80	9.30
	58CU, 141AU	22.70	10.90	16.30	1.30	3.70	4.30	5.20	9.30
75	179BU, 187AU	22.95	11.20	16.70	0.60	1.90	2.30	3.20	9.30
	180BU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

Plug contact









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

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

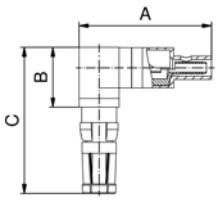
Combination D-SUB Connectors
Contacts

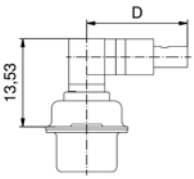
Coaxial contacts, angled
Inner conductor solder-, outer conductor crimp-/solder termination

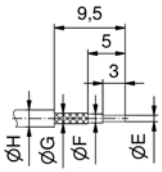
Quality class J >= 500 mating cyles
Quality class 3 (A) = 50 mating cyles

Socket contact







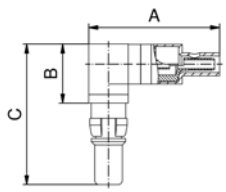


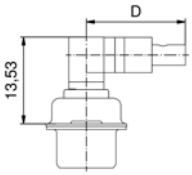
Impedance [Ω]	Cable	Quality class	UL-File	Part No.
50	174 /U, 188 A/U, 316 /U	J	E228329	132J22019X
		A		132A22019X
	178 B/U, 196 A/U, 404 /U	J		132J22029X
		A		132A22029X
	316 /U double braided	J		132J22039X
		A		132A22039X

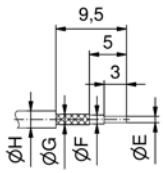
Impedance Ω	Usable Cable RG	A	B	C	D	E Ø	F Ø	G Ø	H Ø
50	174U, 188AU, 316U	18.50	8.20	19.80	15.70	0.85	1.90	2.30	3.20
	178BU, 196AU, 404U	18.50	8.20	19.80	15.70	0.85	1.20	1.40	2.30
	316U double braided	19.50	8.20	19.80	16.70	0.85	1.90	2.70	3.50

Plug contact









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

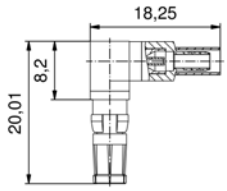
Impedance Ω	Usable Cable RG	A	B	C	D	E Ø	F Ø	G Ø	H Ø
50	174U, 188AU, 316U	18.50	8.20	19.30	15.70	0.85	1.90	2.30	3.20
	178BU, 196AU, 404U	18.50	8.20	19.30	15.70	0.85	1.20	1.40	2.30
	316U double braided	19.50	8.20	19.30	16.70	0.85	1.90	2.70	3.50

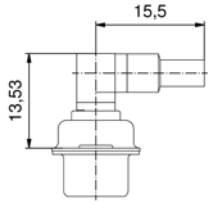
Coaxial contacts, angled
Inner and outer conductor crimp termination

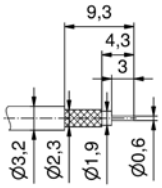
Quality class J >= 500 mating cyles
Quality class 3 (A) = 50 mating cyles

Socket contact





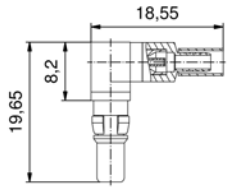


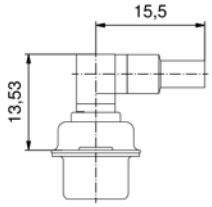


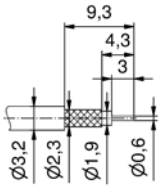
Impedance [Ω]	Cable	Quality class	UL-File	Part No.
50	174 /U, 188 A/U, 316 /U	J	E228329	132J23019X
		A		132A23019X
75	179 B/U, 187 A/U	J		132J33019X
		A		132A33019X

Plug contact









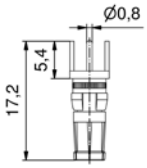
Impedance [Ω]	Cable	Quality class	UL-File	Part No.
50	174 /U, 188 A/U, 316 /U	J	E228329	131J23019X
		A		131A23019X
75	179 B/U, 187 A/U	J		131J33019X
		A		131A33019X

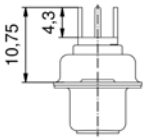
Combination D-SUB Connectors
Contacts

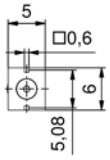
Coaxial contacts, straight
PCB termination, 3 solder pins

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

Socket contact

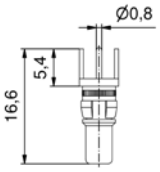



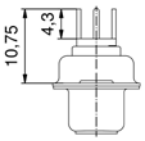


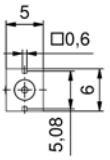


Impedance [Ω]	Shell size	Code use with part no. creator	Quality class	UL-File	Part No.
50	1-5	76	J	E228329	132J24019X
		G7	A		132A24019X
75		86	J		132J34019X
		G8	A		132A34019X

Plug contact

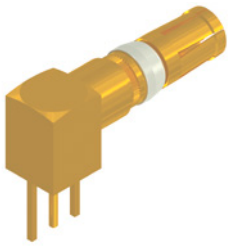
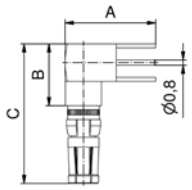


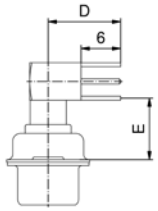


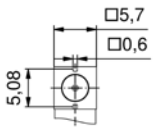
Impedance [Ω]	Shell size	Code use with part no. creator	Quality class	UL-File	Part No.
50	1-5	76	J	E228329	131J24019X
		G7	A		131A24019X
75		86	J		131J34019X
		G8	A		131A34019X

Coaxial contacts, angled
PCB termination, 3 solder pins

Socket contact





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

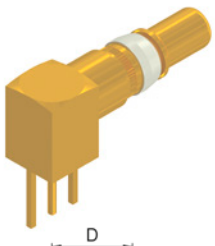
Shellsize	A	B	C	D	E
1-4	13.80	9.30	21.20	11.00	9.30
5	16.80	11.80	23.70	14.00	11.80

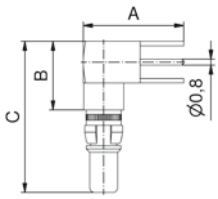
Combination D-SUB Connectors
Contacts

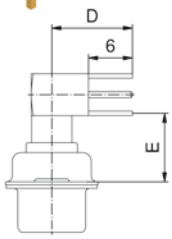
Coaxial contacts, angled
PCB termination, 3 solder pins

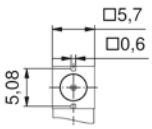
Quality class J >= 500 mating cyles
Quality class 3 (A) = 50 mating cyles

Plug contact









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

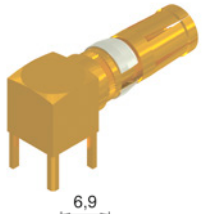
Shellsize	A	B	C	D	E
1-4	13.80	9.30	20.70	11.00	9.30
5	16.80	11.80	23.20	14.00	11.80

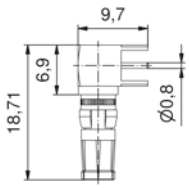
Combination D-SUB Connectors
Contacts

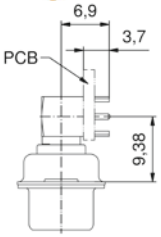
Coaxial contacts, straight
PCB termination, 5 solder pins

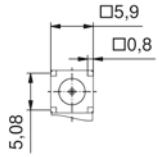
Quality class J >= 500 mating cyles
Quality class 3 (A) = 50 mating cyles

Socket contact



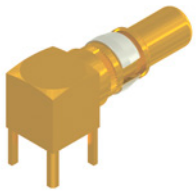


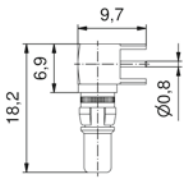


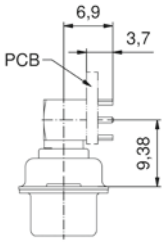


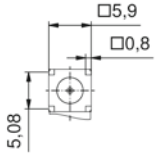
Impedance [Ω]	Shell size	Code use with part no. creator	Quality class	UL-File	Part No.
50	1-4	80	J	E228329	132J25519X
		H4	A		132A25519X
75		90	J		132J35519X
		H5	A		132A35519X

Plug contact









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

Section 3

Filter D-SUB Connectors















Filter D-SUB Connectors

Product spezification

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-O	
Shell	Steel tin plated (on request: brass tin plated)	

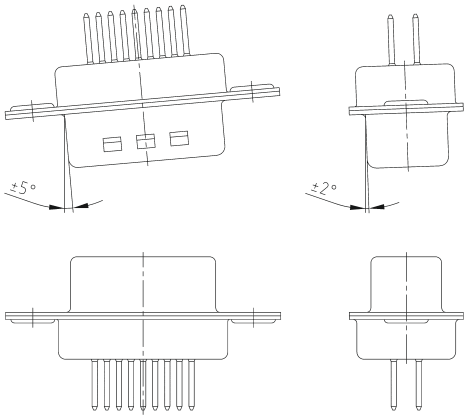
Technical data		
Dielectric with standing voltage	• Standard 424 VDC • Standard (πT-Filter) 300 VDC • High DWV 707 VDC • Ultra high DWV 1500 VDC * • Ultra high DWV (πT-Filter) 1000 VDC * *on request	• Standard 300 VDC
Working voltage	• Standard 100 VDC* • High DWV 100 VDC* • Ultra high DWV 200 VDC* *Depending on isolation coordination (refer to DIN VDE 0110/IEC 664-1)	• Standard 100 VDC*
Voltage surge 10/700 µs	• Standard 300 V • High Voltage 500 V	• Standard 300 V
Current rating	7.5 A (UL) / 5 A (CSA,VDE)	3 A (UL,VDE) 2.5 A (CSA)
Contact resistance	max. 10 mΩ vor Beanspruchung, Δ R max. 10 mΩ nach Beanspruchung refer to IEC 60807-2	
Insulation resistance	≥ 1GΩ	
Capacitor values	370 pF ± 20 % tolerance 830 pF ± 20 % tolerance 1300 pF ± 20 % tolerance other capacitor values on request	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

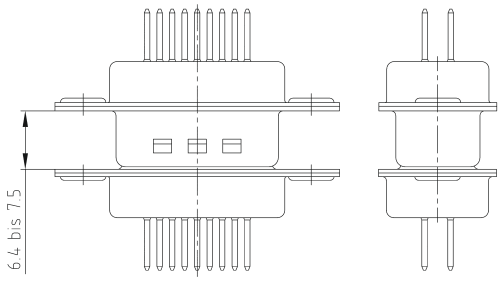
Technical specifications are subject to change without notice.

Mating conditions

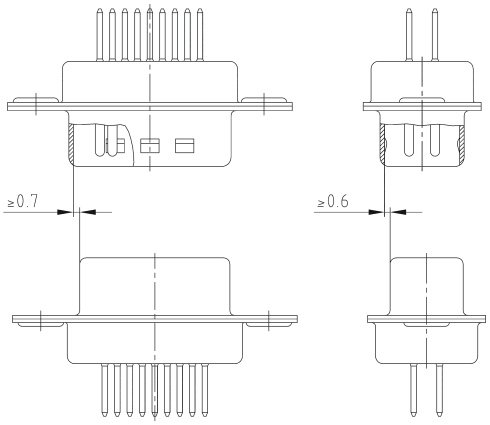
Max. tilt angle for connector mating



Range for safe contact

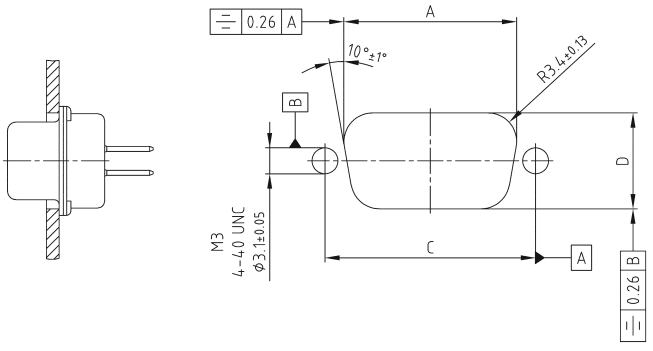


Lock-in range

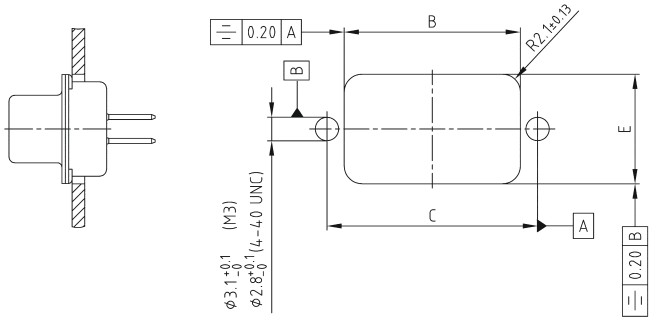


Panel cut-out

Back panel mounting



Front panel mounting

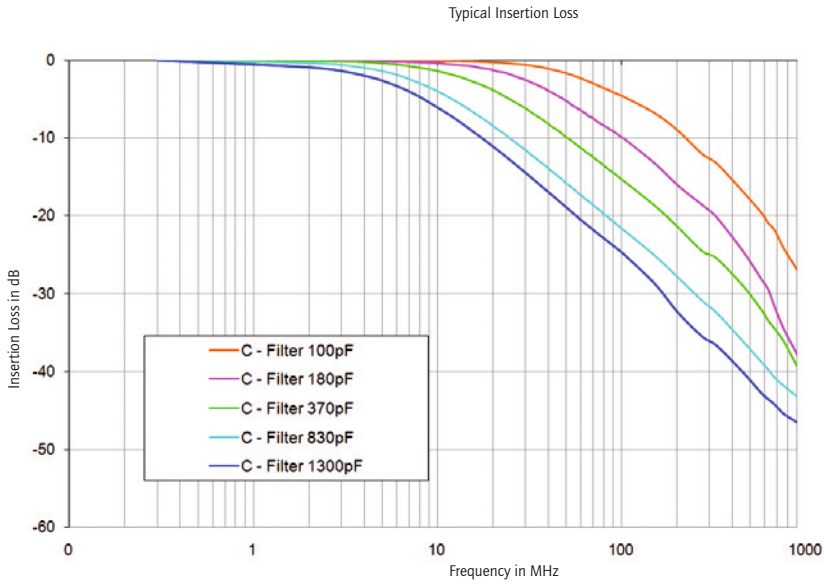


Shell size	No. of poles		A ± 0.1	B ± 0.1	C ± 0,1	D ± 0.1	E ± 0.1
1	9	15	20.50	22.20	25.00	11.40	13.00
2	15	26	28.80	30.50	33.30	11.40	13.00
3	25	44	42.50	44.30	47.04	11.40	13.00
4	37	62	59.10	60.70	63.50	11.40	13.00
5	50	78	56.30	58.30	61.10	14.10	15.80

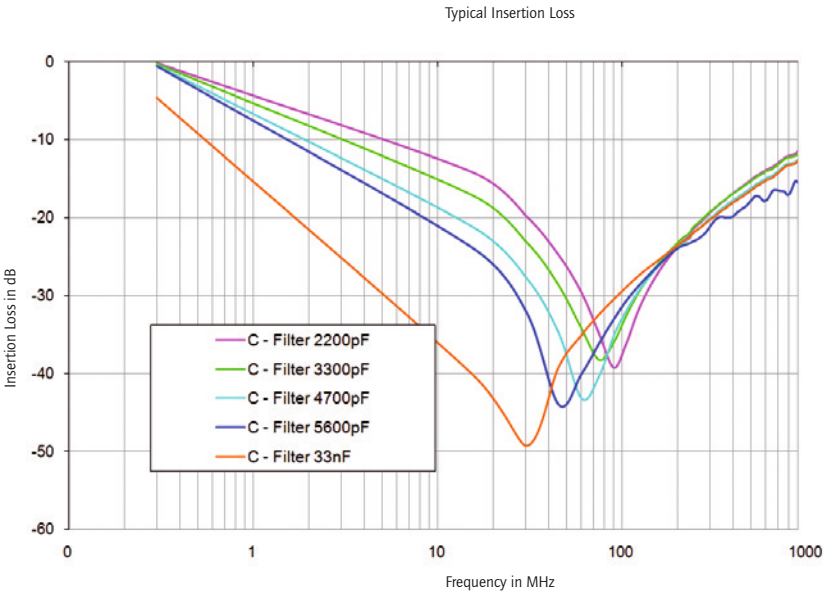
Technical specifications are subject to change without notice.

Insertion loss

C-Filter with planar filter technology



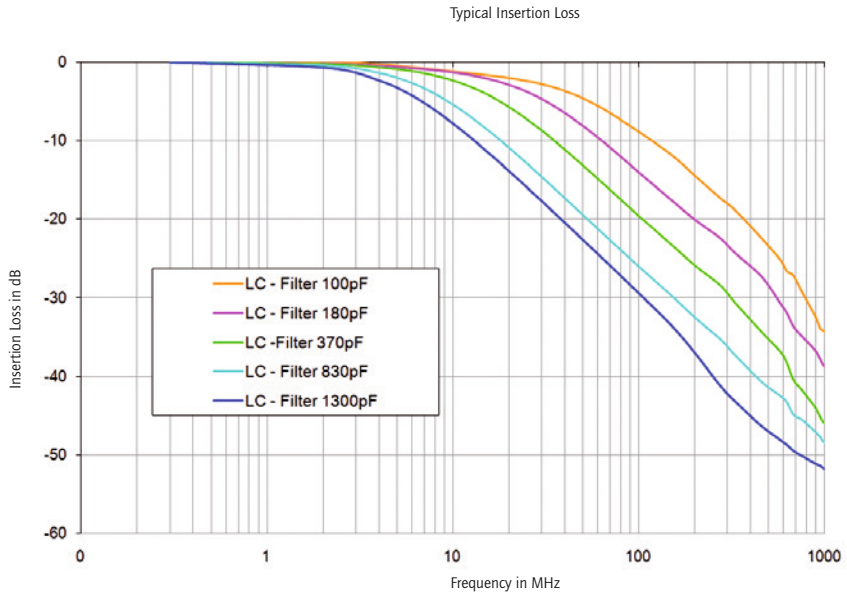
C-Filter with chip technology



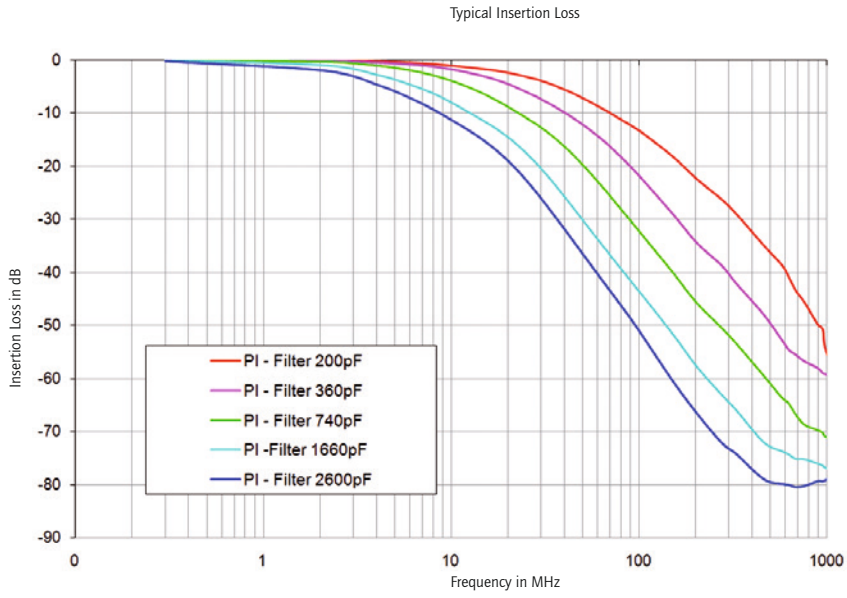
Technical specifications are subject to change without notice.

Insertion loss

LC-Filter with planar filter technology



π-Filter with planar filter technology



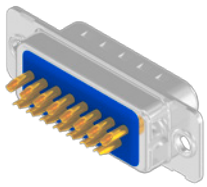
Technical specifications are subject to change without notice.

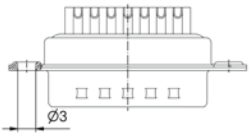
Filter D-SUB Connectors
C-Filter Standard

Solder cup
Precision machined contacts, AWG 20

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

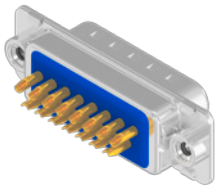
Through-hole Ø 3 mm

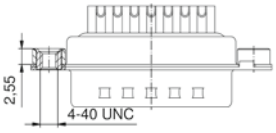




No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A26780X	241A26880X
15						242A26790X	241A26890X
25						242A26800X	241A26900X
37						242A26810X	241A26910X
09	7.5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

4-40 UNC threaded insert





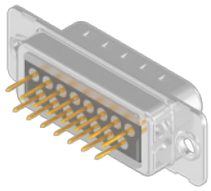
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A26940X	241A27040X
15						242A26950X	241A27050X
25						242A26960X	241A27060X
37						242A26970X	241A27070X
09	7.5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

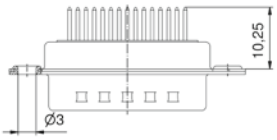
Filter D-SUB Connectors
C-Filter Standard

Solder pin, straight
Precision machined contacts

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

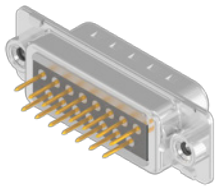
Through-hole Ø 3 mm

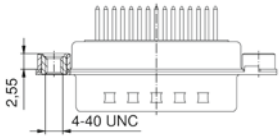




No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A10010X	241A10010X
15						242A10020X	241A10020X
25						242A10030X	241A10030X
37						242A10040X	241A10040X
50	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

4-40 UNC threaded insert





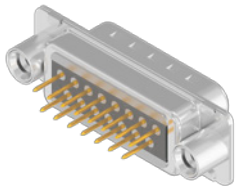
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A10130X	241A10130X
15						242A10140X	241A10140X
25						242A10150X	241A10150X
37						242A10160X	241A10160X
50	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

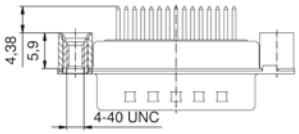
Filter D-SUB Connectors
C-Filter Standard

Solder pin, straight
Precision machined contacts

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

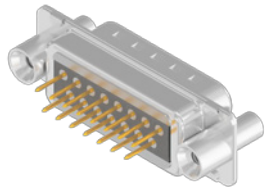
4-40 UNC threaded rear spacer

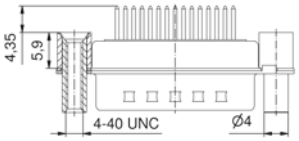




No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A10370X	241A10370X
15						242A10380X	241A10380X
25						242A10390X	241A10390X
37						242A10400X	241A10400X
50	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

4-40 UNC front, threaded rear spacer





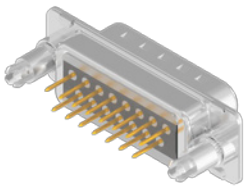
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A10610X	241A10610X
15						242A10620X	241A10620X
25						242A10630X	241A10630X
37						242A10640X	241A10640X
50	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

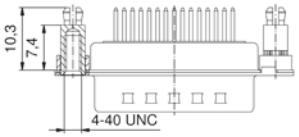
Filter D-SUB Connectors
C-Filter Standard

Solder pin, straight
Precision machined contacts

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

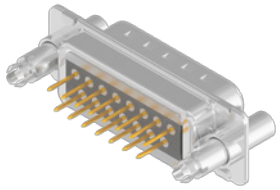
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

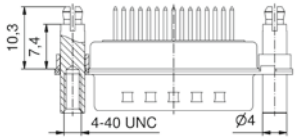




No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A14980X	241A15090X
15						242A14990X	241A15100X
25						242A15000X	241A15110X
37						242A15010X	241A15120X
50	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

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





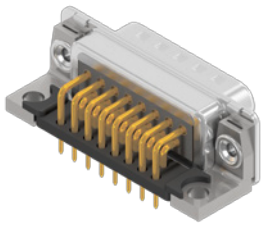
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A15280X	241A15390X
15						242A15290X	241A15400X
25						242A15300X	241A15410X
37						242A15310X	241A15420X
50	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

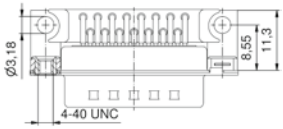
Filter D-SUB Connectors
C-Filter Standard

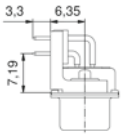
Solder pin, angled, .318"/7.19 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert

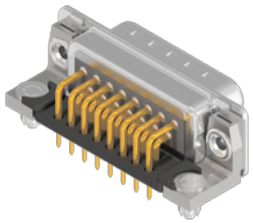


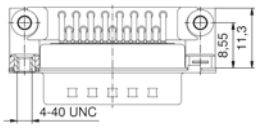


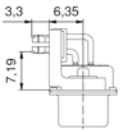


No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A12340X	241A12320X
15						242A12350X	241A12330X
25						242A12360X	241A12340X
37						242A12370X	241A12350X
09	7.5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

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







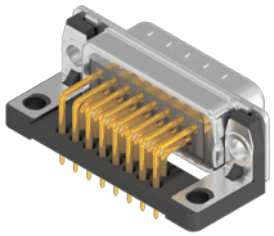
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A17740X	241A16140X
15						242A17750X	241A16150X
25						242A17760X	241A16160X
37						242A17770X	241A16170X
09	7.5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

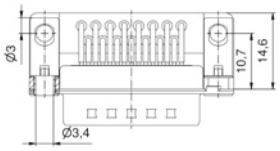
Filter D-SUB Connectors
C-Filter Standard

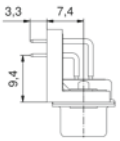
Solder pin, angled, .370"/9.4 mm
Precision machined contacts, plastic bracket

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

Grounding strap, through-hole Ø 3.4 mm

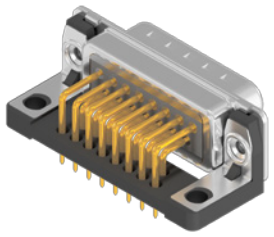


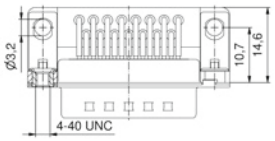


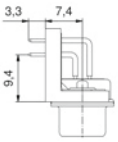


No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A10970X	241A10970X
15						242A10980X	241A10980X
25						242A10990X	241A10990X
37						242A11000X	241A11000X
09	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

Grounding strap, 4-40 UNC threaded insert







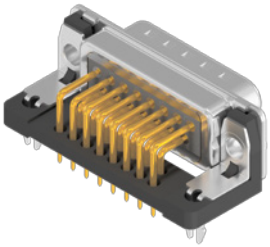
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A11090X	241A11090X
15						242A11100X	241A11100X
25						242A11110X	241A11110X
37						242A11120X	241A11120X
09	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

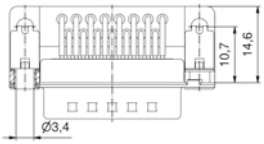
Filter D-SUB Connectors
C-Filter Standard

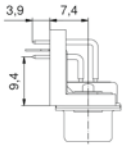
Solder pin, angled, .370"/9.4 mm
Precision machined contacts, plastic bracket

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

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

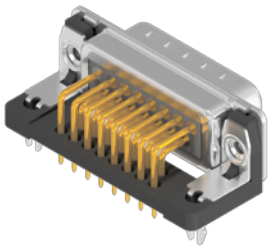


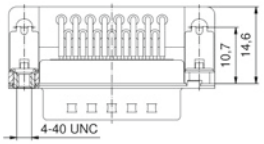


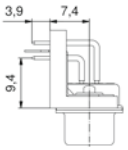


No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A12700X	241A12680X
15						242A12710X	241A12690X
25						242A12720X	241A12700X
37						242A12730X	241A12710X
50	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

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







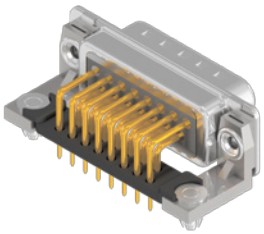
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A12820X	241A12800X
15						242A12830X	241A12810X
25						242A12840X	241A12820X
37						242A12850X	241A12830X
50	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

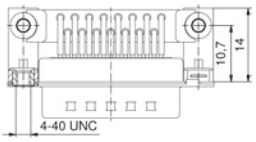
Filter D-SUB Connectors
C-Filter Standard

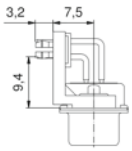
Solder pin, angled, .370"/9.4 mm
Precision machined contacts, metal bracket

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

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

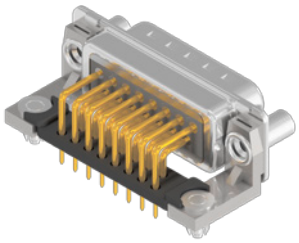


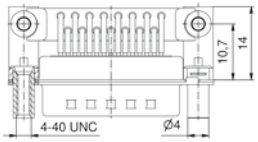


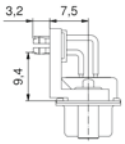


No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A21450X	241A21600X
15						242A21460X	241A21610X
25						242A21470X	241A21620X
37						242A21480X	241A21630X
50	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

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







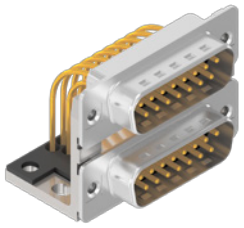
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A22440X	241A22540X
15						242A22450X	241A22550X
25						242A22460X	241A22560X
37						242A22470X	241A22570X
50	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

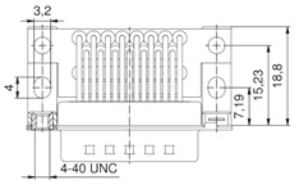
Filter D-SUB Connectors
C-Filter Dual Port

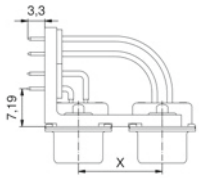
Plug upper - Plug bottom
Solder pin, angled, precision machined contacts

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

4-40 UNC threaded insert







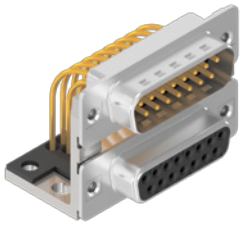
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Part No.
09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	241A14130X
15/15							241A14140X
25/25							241A14150X
37/37							241A14160X
09/09	75 (UL) / 5 (CSA,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

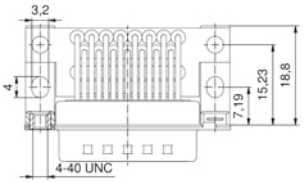
Filter D-SUB Connectors
C-Filter Dual Port

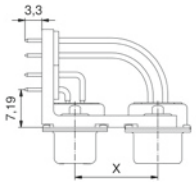
Plug upper - Socket bottom
Solder pin, angled, precision machined contacts

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

4-40 UNC threaded insert







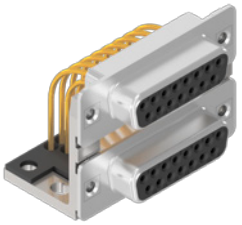
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Part No.
09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	241A14250X
15/15							241A14260X
25/25							241A14270X
37/37							241A14280X
09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	.625, 15.88	241A14330X
15/15							241A14340X
25/25							241A14350X
37/37							241A14360X
09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	.625, 15.88	241A14290X
15/15							241A14300X
25/25							241A14310X
37/37							241A14320X
09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.750, 19.05	241A14730X
15/15							241A14740X
25/25							241A14750X
37/37							241A14760X
09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	830	.750, 19.05	241A14810X
15/15							241A14820X
25/25							241A14830X
37/37							241A14840X
09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	.750, 19.05	241A14770X
15/15							241A14780X
25/25							241A14790X
37/37							241A14800X

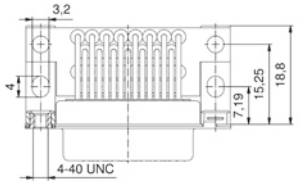
Filter D-SUB Connectors
C-Filter Dual Port

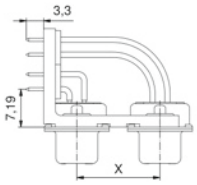
Socket upper - Socket bottom
Solder pin, angled, precision machined contacts

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

4-40 UNC threaded insert







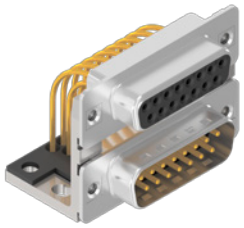
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Part No.
09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	242A14020X
15/15							242A14030X
25/25							242A14040X
37/37							242A14050X
09/09	75 (UL) / 5 (CSA,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

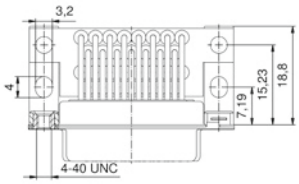
Filter D-SUB Connectors
C-Filter Dual Port

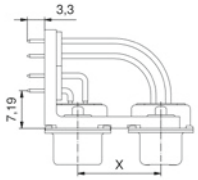
Socket upper - Plug buttom
Solder pin, angled, precision machined contacts

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

4-40 UNC threaded insert







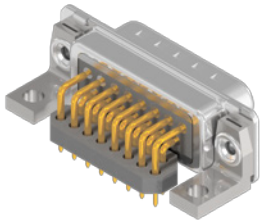
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Connector spacing X = [inches, mm]	Part No.
09/09	75 (UL) / 5 (CSA, VDE)	100	E202784	3	370	.625, 15.88	242A14140X
15/15							242A14150X
25/25							242A14160X
37/37							242A14170X
09/09	75 (UL) / 5 (CSA,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

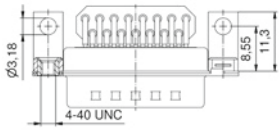
Filter D-SUB Connectors
LC-Filter Standard

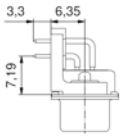
Solder pin, angled, .318"/7.19 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert

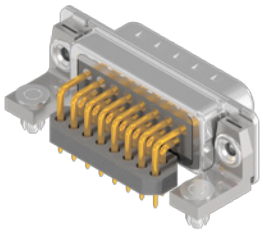


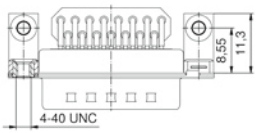


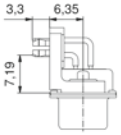


No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A24700X	241A24800X
15						242A24710X	241A24810X
25						242A24720X	241A24820X
37						242A24730X	241A24830X
09	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

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







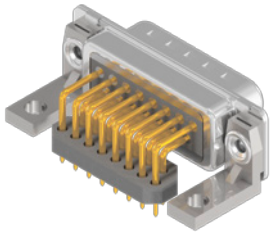
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A24860X	241A24960X
15						242A24870X	241A24970X
25						242A24880X	241A24980X
37						242A24890X	241A24990X
09	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

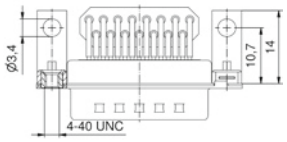
Filter D-SUB Connectors
LC-Filter Standard

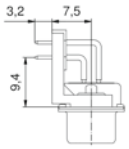
Solder pin, angled, .370"/9.4 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert

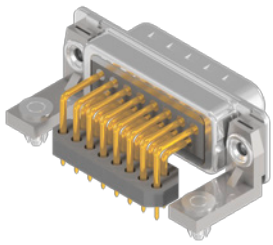


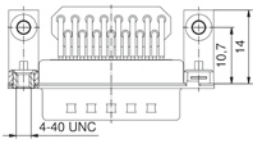


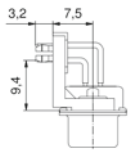


No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A25020X	241A25120X
15						242A25030X	241A25130X
25						242A25040X	241A25140X
37						242A25050X	241A25150X
09	7.5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

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







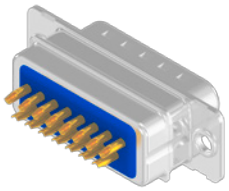
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	242A25340X	241A25440X
15						242A25350X	241A25450X
25						242A25360X	241A25460X
37						242A25370X	241A25470X
09	7.5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

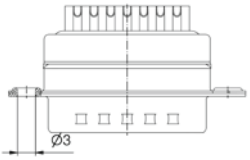
Filter D-SUB Connectors
π-Filter Standard

Solder cup
Precision machined contacts, AWG 20

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

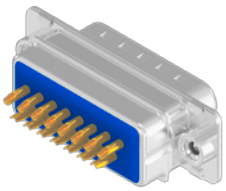
Through-hole Ø 3 mm

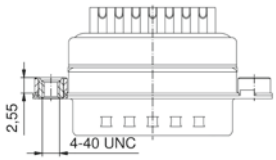




No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 370	242A29020X	241A29120X
15						242A29030X	241A29130X
25						242A29040X	241A29140X
37						242A29050X	241A29150X
09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

4-40 UNC threaded insert





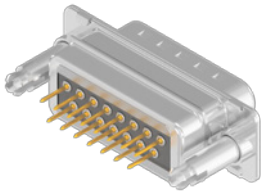
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 370	242A29180X	241A29280X
15						242A29190X	241A29290X
25						242A29200X	241A29300X
37						242A29210X	241A29310X
09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

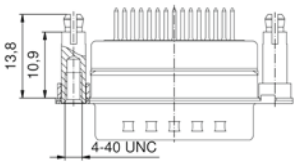
Filter D-SUB Connectors
π-Filter Standard

Solder pin, straight
Precision machined contacts

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

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





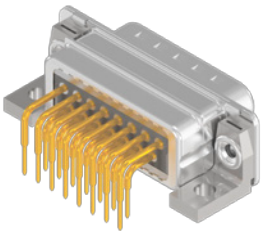
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 370	242A26300X	241A26400X
15						242A26310X	241A26410X
25						242A26320X	241A26420X
37						242A26330X	241A26430X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 830	242A26340X	241A26440X
15						242A26350X	241A26450X
25						242A26360X	241A26460X
37						242A26370X	241A26470X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 1300	242A26380X	241A26480X
15						242A26390X	241A26490X
25						242A26400X	241A26500X
37						242A26410X	241A26510X

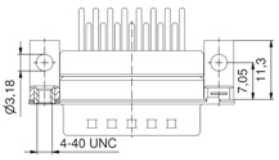
Filter D-SUB Connectors
π-Filter Standard

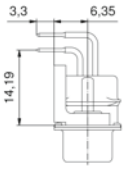
Solder pin, angled, .590"/14.19 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert

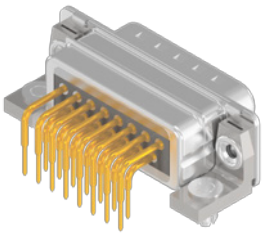


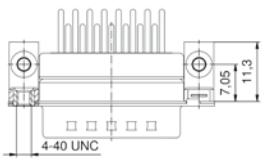


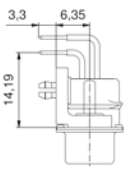


No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 370	242A25980X	241A26080X
15						242A25990X	241A26090X
25						242A26000X	241A26100X
37						242A26010X	241A26110X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 830	242A26020X	241A26120X
15						242A26030X	241A26130X
25						242A26040X	241A26140X
37						242A26050X	241A26150X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 1300	242A26060X	241A26160X
15						242A26070X	241A26170X
25						242A26080X	241A26180X
37						242A26090X	241A26190X

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





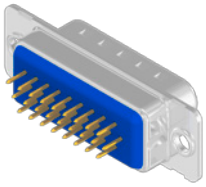
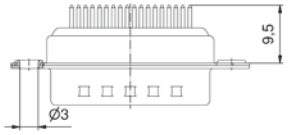
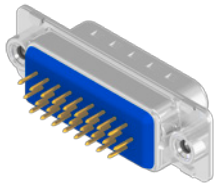
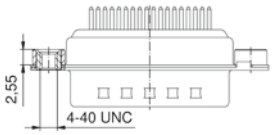
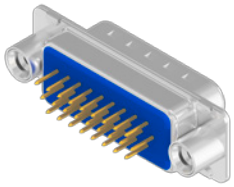
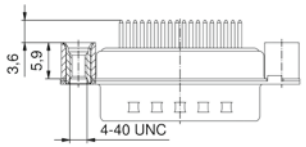
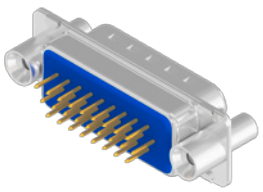
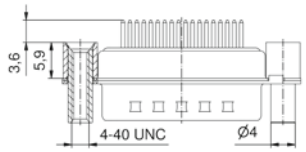


No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 370	242A26140X	241A26240X
15						242A26150X	241A26250X
25						242A26160X	241A26260X
37						242A26170X	241A26270X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 830	242A26180X	241A26280X
15						242A26190X	241A26290X
25						242A26200X	241A26300X
37						242A26210X	241A26310X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 1300	242A26220X	241A26320X
15						242A26230X	241A26330X
25						242A26240X	241A26340X
37						242A26250X	241A26350X

Filter D-SUB Connectors
C-Filter High Density

Solder pin, straight
Precision machined contacts

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

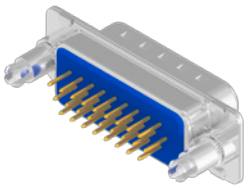
	No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
Through-hole Ø 3 mm								
 	15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A17980X	241A16380X
	26						242A17990X	241A16390X
	44						242A18000X	241A16400X
	62						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

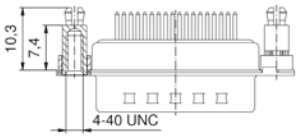
Filter D-SUB Connectors
C-Filter High Density

Solder pin, straight
Precision machined contacts

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

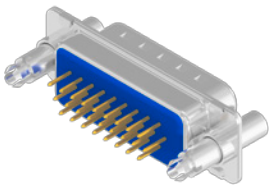
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

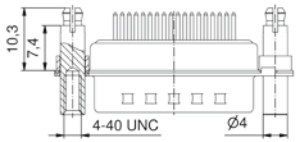




No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A20610X	241A20760X
26						242A20620X	241A20770X
44						242A20630X	241A20780X
62						242A20640X	241A20790X
15	3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

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





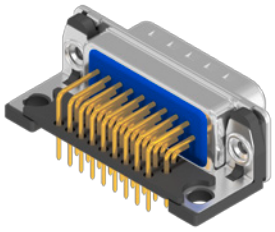
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A20770X	241A20920X
26						242A20780X	241A20930X
44						242A20790X	241A20940X
62						242A20800X	241A20950X
15	3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

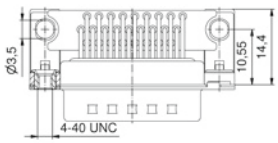
Filter D-SUB Connectors
C-Filter High Density

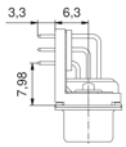
Solder pin, angled, .350"/7.98 mm
Precision machined contacts, plastic bracket

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

Grounding strap, 4-40 UNC threaded insert

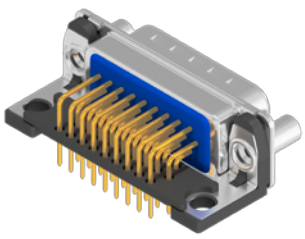


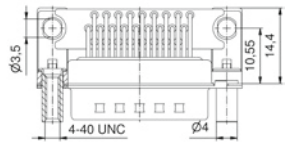


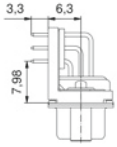


No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A18690X	241A17100X
26						242A18700X	241A17110X
44						242A18710X	241A17120X
62						242A18720X	241A17130X
15	3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

Grounding strap, 4-40 UNC front spacer







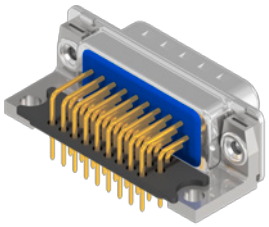
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A18850X	241A17260X
26						242A18860X	241A17270X
44						242A18870X	241A17280X
62						242A18880X	241A17290X
15	3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

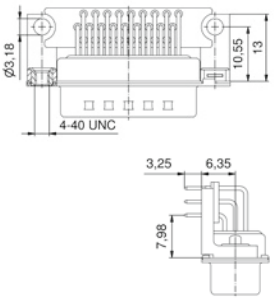
Filter D-SUB Connectors
C-Filter High Density

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

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

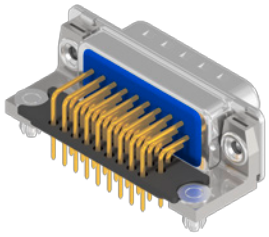
4-40 UNC threaded insert

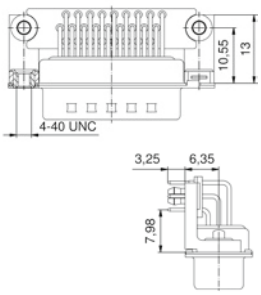




No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A19810X	241A18220X
26						242A19820X	241A18230X
44						242A19830X	241A18240X
62						242A19840X	241A18250X
15	3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

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





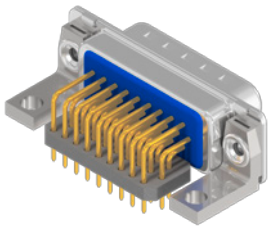
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A19490X	241A17900X
26						242A19500X	241A17910X
44						242A19510X	241A17920X
62						242A19520X	241A17930X
15	3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

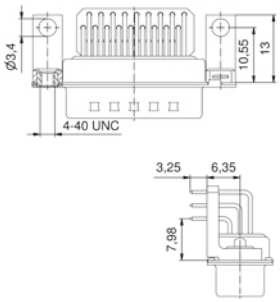
Filter D-SUB Connectors
LC-Filter High Density

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

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

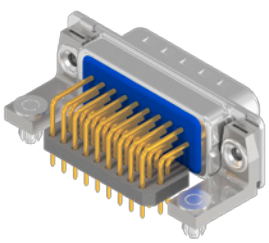
4-40 UNC threaded insert

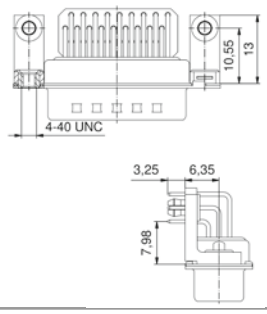




No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A25620X	241A25720X
26						242A25630X	241A25730X
44						242A25640X	241A25740X
62						242A25650X	241A25750X
15	3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

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



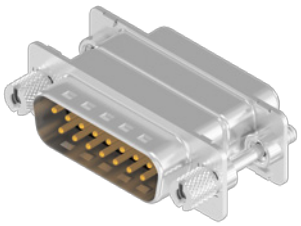


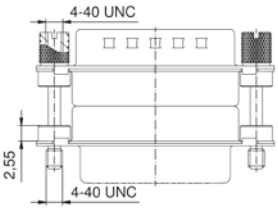
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	242A25780X	241A25880X
26						242A25790X	241A25890X
44						242A25800X	241A25900X
62						242A25810X	241A25910X
15	3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

Filter D-SUB Connectors
C-Filter Full Metal Adapter

Socket connector - Plug connector
Precision machined contacts

4-40 UNC jack screw





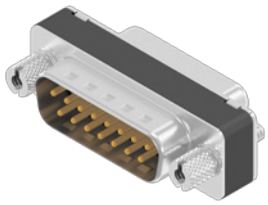
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cyles
On request:
- *Quality class 1 (C) = 500 mating cycles*
- *M3 jack screw*

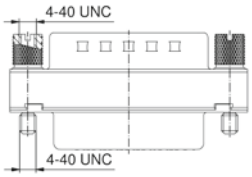
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	243A12200X
15						243A12210X
25						243A12220X
37						243A12230X
09					830	243A12240X
15						243A12250X
25						243A12260X
37						243A12270X
09			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

Filter D-SUB Connectors
C-Filter Adapter

Socket connector - Plug connector, low profile
Precision machined contacts

4-40 UNC jack screw





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

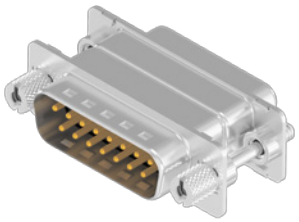
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	243A10010X
15						243A10020X
25						243A10030X
37						243A10040X
50						243A10130X
09					830	243A10090X
15						243A10100X
25						243A10110X
37			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

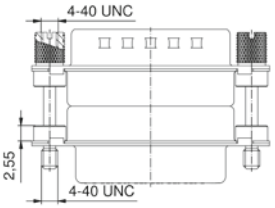
Filter D-SUB Connectors
π-Filter Full Metal Adapter

Socket connector - Plug connector
Precision machined contacts

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

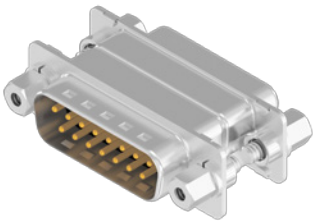
4-40 UNC jack screw

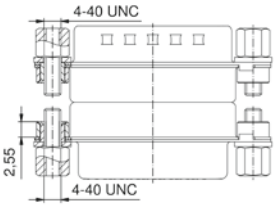




No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 370	MAP1XAAAR02R741X
15						MAP2XAAAR02R741X
25						MAP3XAAAR02R741X
37						MAP4XAAAR02R741X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	2x 830	MAP1XAAAR02R162X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

4-40 UNC hex bolt





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

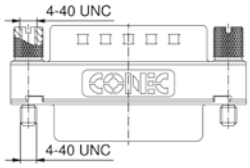
Filter D-SUB Connectors
C-Filter Adapter High Density

Socket connector - Plug connector, low profile
Precision machined contacts

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

4-40 UNC jack screw



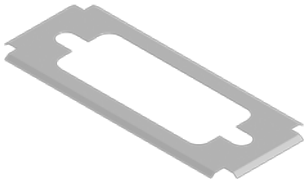


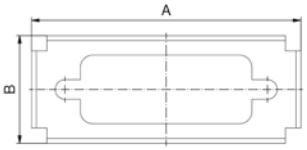
No. of poles	Current rating [A]	Working voltage [V DC]	UL-File	Quality class	Capacitance [pF]	Part No.
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	370	243A11640X
26						243A11650X
44						243A11660X
62						243A11670X
15	3 (UL, VDE) / 2.5 (CSA)	100	E202784	3	830	243A11680X
26						243A11690X
44						243A11700X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

Filter D-SUB Connectors
Accessories

EMI/RFI shielding frames

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

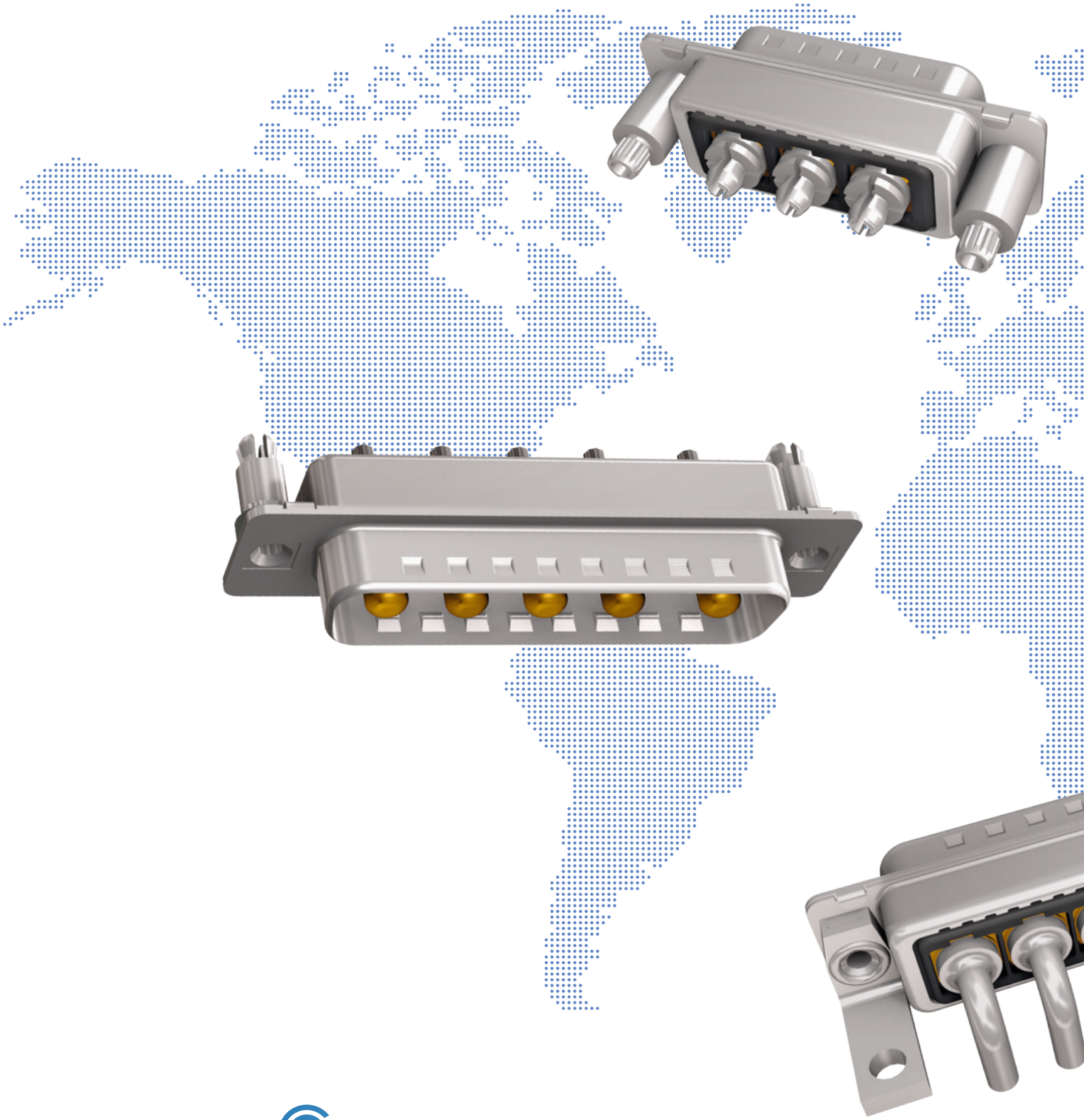


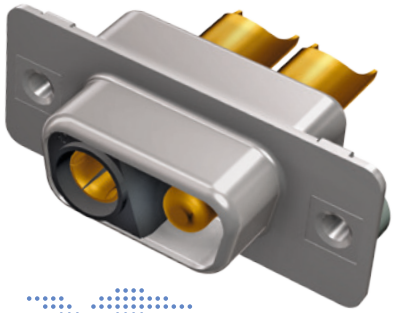


Shell size	No. of poles Standard	No. of poles High Density	Measure A [mm]	Measure B [mm]	Part No.
1	09	15	35.8	17.5	160X10839X
2	15	26	44.2	17.5	160X10849X
3	25	44	57.9	17.5	160X10859X
4	37	62	74.4	17.5	160X10869X
5	50	78	72.1	20.3	160X10879X

Section 4

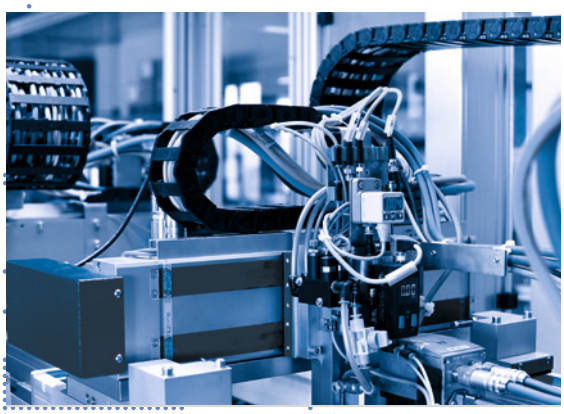
Filter Combination D-SUB Connectors



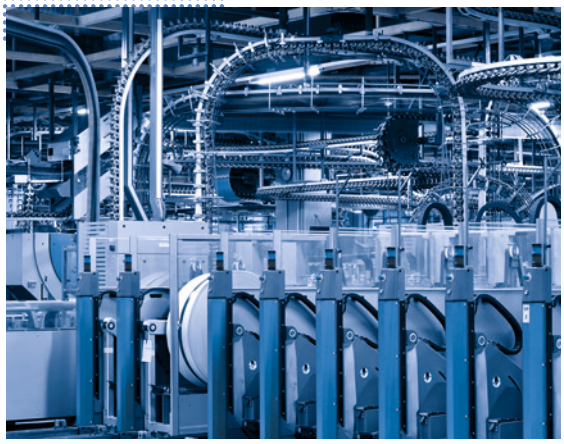












Filter Combination D-SUB Connectors

Part Number Creator

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

Shell size and design

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

*F = filtered

Contact type

P	= Plug connector
S	= Socket connector

Plaiting code / Quality class for contacts

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

Capacitance

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

Dielectic with standing voltage

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

Termination for high current contacts

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

*3W3: Pos. A1 + A3; 5W5: Pos. A1 + A3 + A5

Mounting style

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

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. Tempertature	Duration	max. solder bath Temperature	max. Terminal Immersion Time
Recommended wave-solder parameters	120 °C	120 s	260 °C	5 s

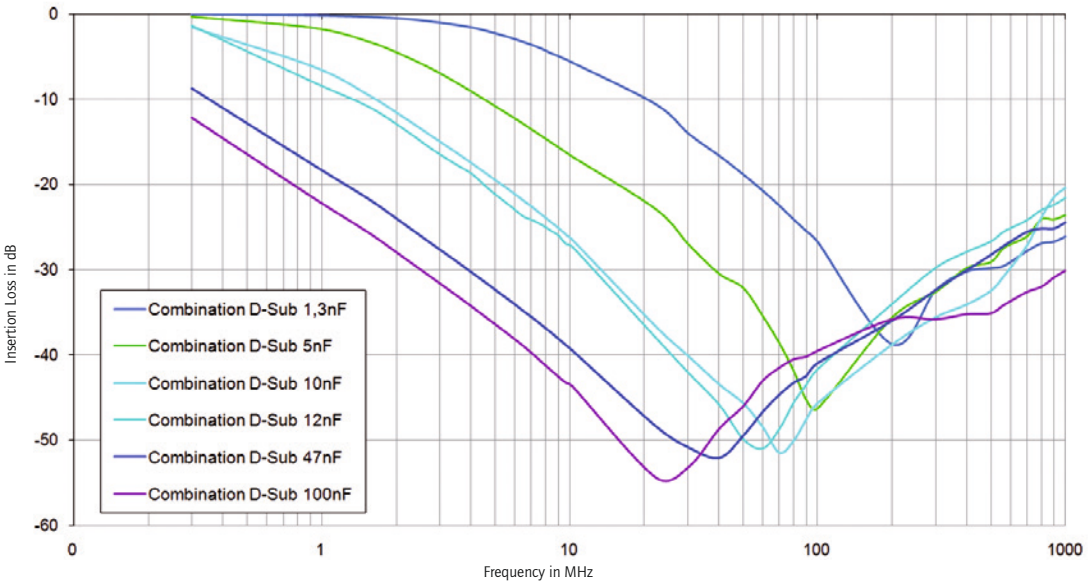
Technical specifications are subject to change without notice.

Filter Combination D-SUB Connectors

Insertion loss

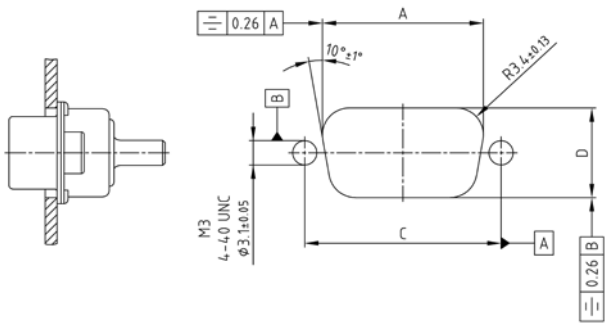
C-Filter

Typical Insertion Loss

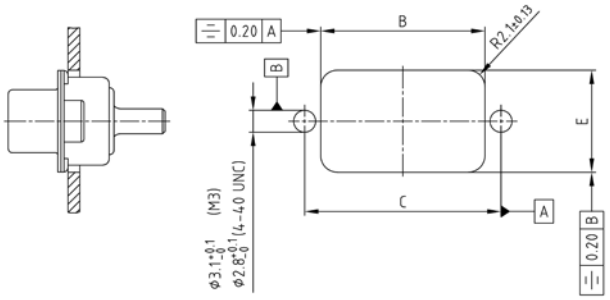


Panel cut-out

Back panel mounting



Front panel mounting

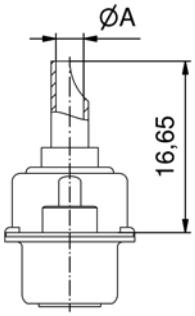


Shell size	Layout	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
1	2W2C	20.50	20.90	25.00	11.40	13.00
2	3W3S, 3W3C	28.80	29.20	33.30	11.40	13.00
3	5W5S	42.50	42.90	47.04	11.40	13.00
4	8W8S	59.10	59.40	63.50	11.40	13.00

Technical specifications are subject to change without notice.

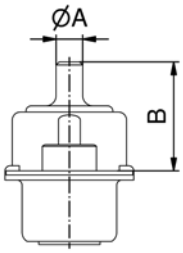
Termination code high power contacts

Solder cup



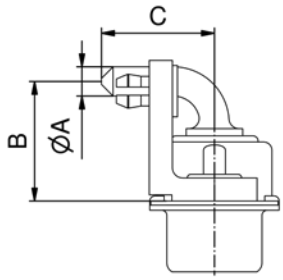
Termination Code	Current rating	AWG	Ø A [mm]
41	10 A	16-20	1.80
42	20 A	12-14	2.70
43	30 A	10-12	3.50
44	40 A	8-10	4.80

Solder pin straight



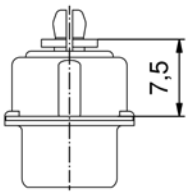
Termination Code	Current rating	Ø A [mm]	B ± 0.3 [mm]	PCB thickness [mm]	Hole diameter in PCB [mm]
48	20 A	1.95	9.65	1.6	2.30 ± 0.1
49	20 A	2.60	10.65	1.6	3.00 ± 0.1
50	20 A	2.85	10.05	1.6	3.20 ± 0.1
51	30 A	3.18	12.85	1.6/2.3/3.2	3.60 ± 0.1
52	40 A	3.75	11.10	1.6/2.3/3.2	4.10 ± 0.1

Solder pin angled

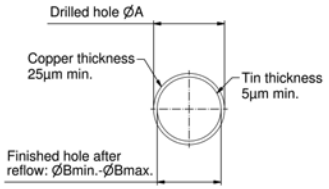


Termination Code	Current rating	Ø A [mm]	B ± 0.3 [mm]	C ± 0.3 [mm]	Hole diameter in PCB [mm]
56	20 A	2.85	11.65	11.00	3.20 ± 0.1
57	30 A	3.18	20.35	9.50	3.60 ± 0.1
58	40 A	3.75	11.65	11.00	4.10 ± 0.1

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



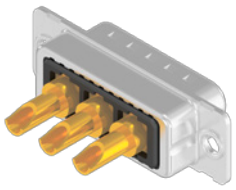
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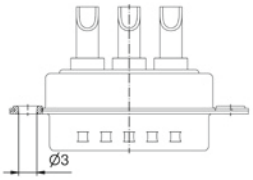
Filter Combination D-SUB Connectors
C-Filter

Solder cup
Precision machined contacts, AWG 8-20

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

Through-hole Ø 3 mm



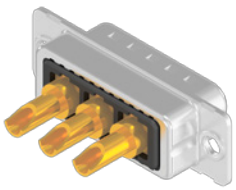


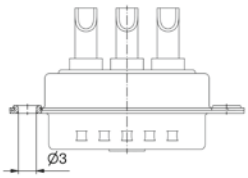
For other capacitance values refer to the part number creator.

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

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

Through-hole Ø 3 mm, coded version



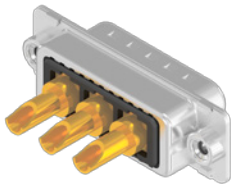


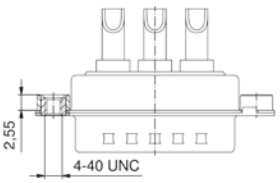
For other capacitance values refer to the part number creator.

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

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

4-40 UNC threaded insert





For other capacitance values refer to the part number creator.

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

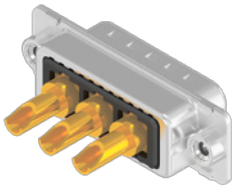
No. of poles	Current rating [A]	Working voltage [VDC]	AWG	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	10	100	16-20	47	E228329	3	3F3SSA22S41A30X	3F3SPA22S41A30X
	20		12-14				3F3SSA22S42A30X	3F3SPA22S42A30X
	30		10-12				3F3SSA22S43A30X	3F3SPA22S43A30X
	40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

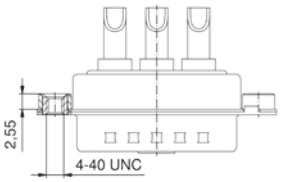
Filter Combination D-SUB Connectors
C-Filter

Solder cup
Precision machined contacts, AWG 8-20

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

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	100	16-20	47	E228329	3	2F2CSA22S41A30X	2F2CPA22S41A30X
	20		12-14				2F2CSA22S42A30X	2F2CPA22S42A30X
	30		10-12				2F2CSA22S43A30X	2F2CPA22S43A30X
	40		8-10				2F2CSA22S44A30X	2F2CPA22S44A30X
3W3C	10	100	16-20	47	E228329	3	3F3CSA22S41A30X	3F3CPA22S41A30X
	20		12-14				3F3CSA22S42A30X	3F3CPA22S42A30X
	30		10-12				3F3CSA22S43A30X	3F3CPA22S43A30X
	40		8-10				3F3CSA22S44A30X	3F3CPA22S44A30X

For other capacitance values refer to the part number creator.

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

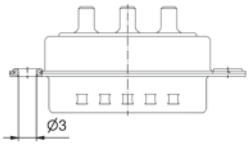
Filter Combination D-SUB Connectors
C-Filter

Solder pin straight
Precision machined contacts

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

Through-hole Ø 3 mm





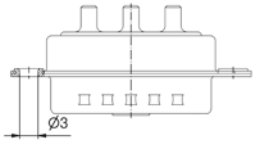
For other capacitance values refer to the part number creator.

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	3F3SSA22S48A10X	3F3SPA22S48A10X
			2.60				3F3SSA22S49A10X	3F3SPA22S49A10X
			2.85				3F3SSA22S50A10X	3F3SPA22S50A10X
	30		3.18				3F3SSA22S51A10X	3F3SPA22S51A10X
	40		3.75				3F3SSA22S52A10X	3F3SPA22S52A10X
5W5	20	100	1.95	47	E228329	3	5F5SSA22S48A10X	5F5SPA22S48A10X
			2.60				5F5SSA22S49A10X	5F5SPA22S49A10X
			2.85				5F5SSA22S50A10X	5F5SPA22S50A10X
	30		3.18				5F5SSA22S51A10X	5F5SPA22S51A10X
	40		3.75				5F5SSA22S52A10X	5F5SPA22S52A10X
8W8	20	100	1.95	47	E228329	3	8F8SSA22S48A10X	8F8SPA22S48A10X
			2.60				8F8SSA22S49A10X	8F8SPA22S49A10X
			2.85				8F8SSA22S50A10X	8F8SPA22S50A10X
	30		3.18				8F8SSA22S51A10X	8F8SPA22S51A10X
	40		3.75				8F8SSA22S52A10X	8F8SPA22S52A10X

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

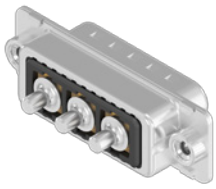
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	100	1.95	47	E228329	3	2F2CSA22S48A10X	2F2CPA22S48A10X
			2.60				2F2CSA22S49A10X	2F2CPA22S49A10X
			2.85				2F2CSA22S50A10X	2F2CPA22S50A10X
	30		3.18				2F2CSA22S51A10X	2F2CPA22S51A10X
	40		3.75				2F2CSA22S52A10X	2F2CPA22S52A10X
3W3C	20	100	1.95	47	E228329	3	3F3CSA22S48A10X	3F3CPA22S48A10X
			2.60				3F3CSA22S49A10X	3F3CPA22S49A10X
			2.85				3F3CSA22S50A10X	3F3CPA22S50A10X
	30		3.18				3F3CSA22S51A10X	3F3CPA22S51A10X
	40		3.75				3F3CSA22S52A10X	3F3CPA22S52A10X

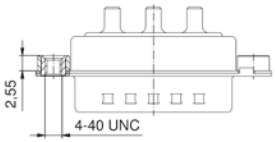
Filter Combination D-SUB Connectors
C-Filter

Solder pin straight
Precision machined contacts

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

4-40 UNC threaded insert





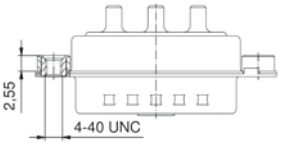
For other capacitance values refer to the part number creator.

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
	30		3.18				3F3SSA22S51A30X	3F3SPA22S51A30X
	40		3.75				3F3SSA22S52A30X	3F3SPA22S52A30X
5W5	20	100	1.95	47	E228329	3	5F5SSA22S48A30X	5F5SPA22S48A30X
			2.60				5F5SSA22S49A30X	5F5SPA22S49A30X
			2.85				5F5SSA22S50A30X	5F5SPA22S50A30X
	30		3.18				5F5SSA22S51A30X	5F5SPA22S51A30X
	40		3.75				5F5SSA22S52A30X	5F5SPA22S52A30X
8W8	20	100	1.95	47	E228329	3	8F8SSA22S48A30X	8F8SPA22S48A30X
			2.60				8F8SSA22S49A30X	8F8SPA22S49A30X
			2.85				8F8SSA22S50A30X	8F8SPA22S50A30X
	30		3.18				8F8SSA22S51A30X	8F8SPA22S51A30X
	40		3.75				8F8SSA22S52A30X	8F8SPA22S52A30X

4-40 UNC threaded insert, coded version





For other capacitance values refer to the part number creator.

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

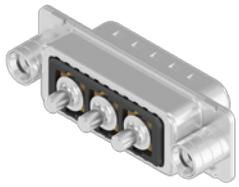
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	100	1.95	47	E228329	3	2F2CSA22S48A30X	2F2CPA22S48A30X
			2.60				2F2CSA22S49A30X	2F2CPA22S49A30X
			2.85				2F2CSA22S50A30X	2F2CPA22S50A30X
	30		3.18				2F2CSA22S51A30X	2F2CPA22S51A30X
	40		3.75				2F2CSA22S52A30X	2F2CPA22S52A30X
3W3C	20	100	1.95	47	E228329	3	3F3CSA22S48A30X	3F3CPA22S48A30X
			2.60				3F3CSA22S49A30X	3F3CPA22S49A30X
			2.85				3F3CSA22S50A30X	3F3CPA22S50A30X
	30		3.18				3F3CSA22S51A30X	3F3CPA22S51A30X
	40		3.75				3F3CSA22S52A30X	3F3CPA22S52A30X

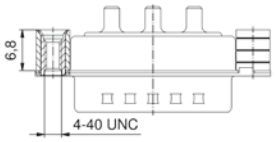
Filter Combination D-SUB Connectors
C-Filter

Solder pin straight
Precision machined contacts

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

4-40 UNC threaded rear spacer



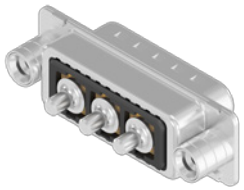


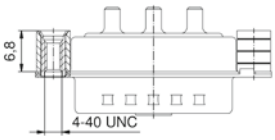
For other capacitance values refer to the part number creator.

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	3F3SSA22S48A50X	3F3SPA22S48A50X
			2.60				3F3SSA22S49A50X	3F3SPA22S49A50X
			2.85				3F3SSA22S50A50X	3F3SPA22S50A50X
	30		3.18				3F3SSA22S51A50X	3F3SPA22S51A50X
	40		3.75				3F3SSA22S52A50X	3F3SPA22S52A50X
5W5	20	100	1.95	47	E228329	3	5F5SSA22S48A50X	5F5SPA22S48A50X
			2.60				5F5SSA22S49A50X	5F5SPA22S49A50X
			2.85				5F5SSA22S50A50X	5F5SPA22S50A50X
	30		3.18				5F5SSA22S51A50X	5F5SPA22S51A50X
	40		3.75				5F5SSA22S52A50X	5F5SPA22S52A50X
8W8	20	100	1.95	47	E228329	3	8F8SSA22S48A50X	8F8SPA22S48A50X
			2.60				8F8SSA22S49A50X	8F8SPA22S49A50X
			2.85				8F8SSA22S50A50X	8F8SPA22S50A50X
	30		3.18				8F8SSA22S51A50X	8F8SPA22S51A50X
	40		3.75				8F8SSA22S52A50X	8F8SPA22S52A50X

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

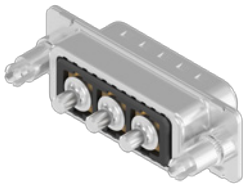
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	100	1.95	47	E228329	3	2F2CSA22S48A50X	2F2CPA22S48A50X
			2.60				2F2CSA22S49A50X	2F2CPA22S49A50X
			2.85				2F2CSA22S50A50X	2F2CPA22S50A50X
	30		3.18				2F2CSA22S51A50X	2F2CPA22S51A50X
	40		3.75				2F2CSA22S52A50X	2F2CPA22S52A50X
3W3C	20	100	1.95	47	E228329	3	3F3CSA22S48A50X	3F3CPA22S48A50X
			2.60				3F3CSA22S49A50X	3F3CPA22S49A50X
			2.85				3F3CSA22S50A50X	3F3CPA22S50A50X
	30		3.18				3F3CSA22S51A50X	3F3CPA22S51A50X
	40		3.75				3F3CSA22S52A50X	3F3CPA22S52A50X

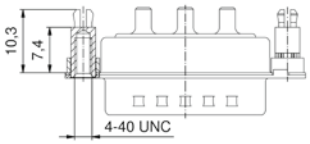
Filter Combination D-SUB Connectors
C-Filter

Solder pin straight
Precision machined contacts

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

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



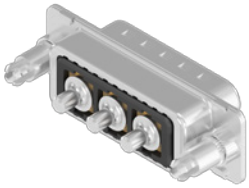


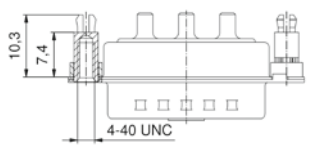
For other capacitance values refer to the part number creator.

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
	30		3.18				3F3SSA22S51E20X	3F3SPA22S51E20X
	40		3.75				3F3SSA22S52E20X	3F3SPA22S52E20X
5W5	20	100	1.95	47	E228329	3	5F5SSA22S48E20X	5F5SPA22S48E20X
			2.60				5F5SSA22S49E20X	5F5SPA22S49E20X
			2.85				5F5SSA22S50E20X	5F5SPA22S50E20X
	30		3.18				5F5SSA22S51E20X	5F5SPA22S51E20X
	40		3.75				5F5SSA22S52E20X	5F5SPA22S52E20X
8W8	20	100	1.95	47	E228329	3	8F8SSA22S48E20X	8F8SPA22S48E20X
			2.60				8F8SSA22S49E20X	8F8SPA22S49E20X
			2.85				8F8SSA22S50E20X	8F8SPA22S50E20X
	30		3.18				8F8SSA22S51E20X	8F8SPA22S51E20X
	40		3.75				8F8SSA22S52E20X	8F8SPA22S52E20X

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



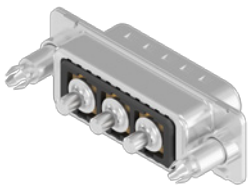


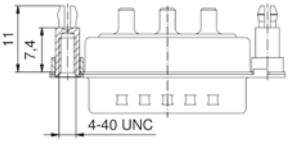
For other capacitance values refer to the part number creator.

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
	30		3.18				2F2CSA22S51E20X	2F2CPA22S51E20X
	40		3.75				2F2CSA22S52E20X	2F2CPA22S52E20X
3W3C	20	100	1.95	47	E228329	3	3F3CSA22S48E20X	3F3CPA22S48E20X
			2.60				3F3CSA22S49E20X	3F3CPA22S49E20X
			2.85				3F3CSA22S50E20X	3F3CPA22S50E20X
	30		3.18				3F3CSA22S51E20X	3F3CPA22S51E20X
	40		3.75				3F3CSA22S52E20X	3F3CPA22S52E20X

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

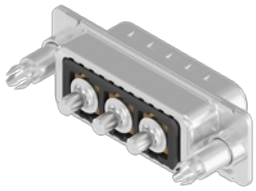
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	30	100	3.18	47	E228329	3	3F3SSA22S51E40X	3F3SPA22S51E40X
	40		3.75				3F3SSA22S52E40X	3F3SPA22S52E40X
5W5	30	100	3.18	47	E228329	3	5F5SSA22S51E40X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

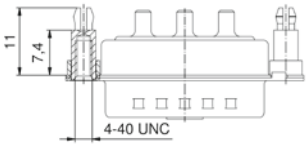
Filter Combination D-SUB Connectors
C-Filter

Solder pin straight
Precision machined contacts

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

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



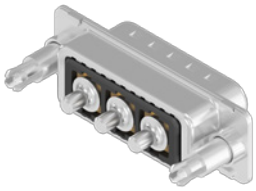


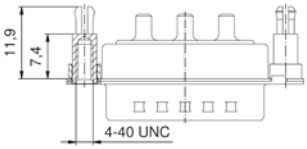
For other capacitance values refer to the part number creator.

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

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

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



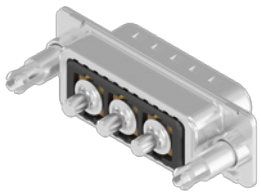


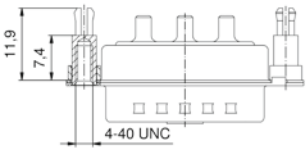
For other capacitance values refer to the part number creator.

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	30	100	3.18	47	E228329	3	3F3SSA22S51E60X	3F3SPA22S51E60X
	40		3.75				3F3SSA22S52E60X	3F3SPA22S52E60X
5W5	30	100	3.18	47	E228329	3	5F5SSA22S51E60X	5F5SPA22S51E60X
	40		3.75				5F5SSA22S52E60X	5F5SPA22S52E60X
8W8	30	100	3.18	47	E228329	3	8F8SSA22S51E60X	8F8SPA22S51E60X
	40		3.75				8F8SSA22S52E60X	8F8SPA22S52E60X

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





For other capacitance values refer to the part number creator.

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

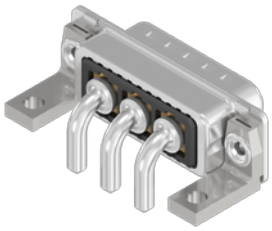
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	30	100	3.18	47	E228329	3	2F2CSA22S51E60X	2F2CPA22S51E60X
	40		3.75				2F2CSA22S52E60X	2F2CPA22S52E60X
3W3C	30	100	3.18	47	E228329	3	3F3CSA22S51E60X	3F3CPA22S51E60X
	40		3.75				3F3CSA22S52E60X	3F3CPA22S52E60X

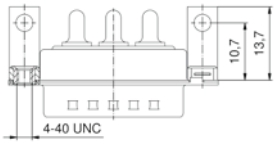
Filter Combination D-SUB Connectors
C-Filter

Solder pin angled
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert



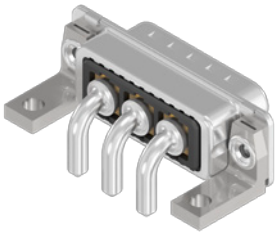


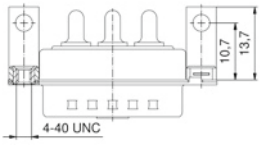
For other capacitance values refer to the part number creator.

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	100	2.85	47	E228329	3	3F3SSA22S56K20X	3F3SPA22S56K20X
	30		3.20				3F3SSA22S57K20X	3F3SPA22S57K20X
	40		3.75				3F3SSA22S58K20X	3F3SPA22S58K20X
5W5	20	100	2.85	47	E228329	3	5F5SSA22S56K20X	5F5SPA22S56K20X
	30		3.20				5F5SSA22S57K20X	5F5SPA22S57K20X
	40		3.75				5F5SSA22S58K20X	5F5SPA22S58K20X
8W8	20	100	2.85	47	E228329	3	8F8SSA22S56K20X	8F8SPA22S56K20X
	30		3.20				8F8SSA22S57K20X	8F8SPA22S57K20X
	40		3.75				8F8SSA22S58K20X	8F8SPA22S58K20X

4-40 UNC threaded insert, coded version



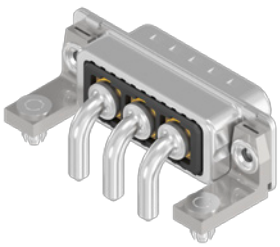


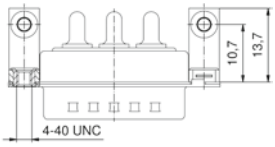
For other capacitance values refer to the part number creator.

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

No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	100	2.85	47	E228329	3	2F2CSA22S56K20X	2F2CPA22S56K20X
	30		3.20				2F2CSA22S57K20X	2F2CPA22S57K20X
	40		3.75				2F2CSA22S58K20X	2F2CPA22S58K20X
3W3C	20	100	2.85	47	E228329	3	3F3CSA22S56K20X	3F3CPA22S56K20X
	30		3.20				3F3CSA22S57K20X	3F3CPA22S57K20X
	40		3.75				3F3CSA22S58K20X	3F3CPA22S58K20X

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





For other capacitance values refer to the part number creator.

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

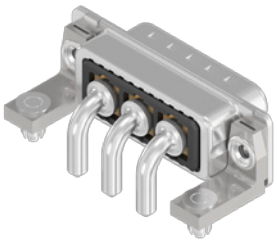
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	100	2.85	47	E228329	3	3F3SSA22S56K40X	3F3SPA22S56K40X
	30		3.20				3F3SSA22S57K40X	3F3SPA22S57K40X
	40		3.75				3F3SSA22S58K40X	3F3SPA22S58K40X
5W5	20	100	2.85	47	E228329	3	5F5SSA22S56K40X	5F5SPA22S56K40X
	30		3.20				5F5SSA22S57K40X	5F5SPA22S57K40X
	40		3.75				5F5SSA22S58K40X	5F5SPA22S58K40X
8W8	20	100	2.85	47	E228329	3	8F8SSA22S56K40X	8F8SPA22S56K40X
	30		3.20				8F8SSA22S57K40X	8F8SPA22S57K40X
	40		3.75				8F8SSA22S58K40X	8F8SPA22S58K40X

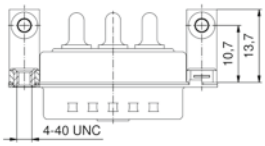
Filter Combination D-SUB Connectors
C-Filter

Solder pin angled
Precision machined contacts, metal bracket

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

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





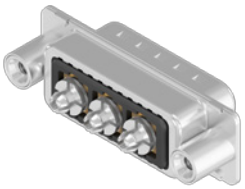
No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	100	2.85	47	E228329	3	2F2CSA22S56K40X	2F2CPA22S56K40X
	30		3.20				2F2CSA22S57K40X	2F2CPA22S57K40X
	40		3.75				2F2CSA22S58K40X	2F2CPA22S58K40X
3W3C	20	100	2.85	47	E228329	3	3F3CSA22S56K40X	3F3CPA22S56K40X
	30		3.20				3F3CSA22S57K40X	3F3CPA22S57K40X
	40		3.75				3F3CSA22S58K40X	3F3CPA22S58K40X

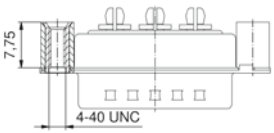
For other capacitance values refer to the part number creator.

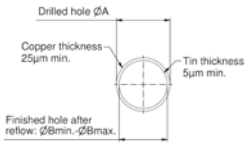
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

Press-fit contact straight
Precision machined contacts

4-40 UNC threaded rear spacer







No. of poles	Current rating [A]	Working voltage [VDC]	Outer Ø contact [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	30	100	3.11	47	E228329	3	3F3SSA22SP1AA0X	3F3SPA22SP1AA0X
			3.25				3F3SSA22SP2AA0X	3F3SPA22SP2AA0X
			3.20				3F3SSA22SP4AA0X	3F3SPA22SP4AA0X
5W5	30	100	3.11	47	E228329	3	5F5SSA22SP1AA0X	5F5SPA22SP1AA0X
			3.25				5F5SSA22SP2AA0X	5F5SPA22SP2AA0X
			3.20				5F5SSA22SP4AA0X	5F5SPA22SP4AA0X
8W8	30	100	3.11	47	E228329	3	8F8SSA22SP1AA0X	8F8SPA22SP1AA0X
			3.25				8F8SSA22SP2AA0X	8F8SPA22SP2AA0X
			3.20				8F8SSA22SP4AA0X	8F8SPA22SP4AA0X

For other capacitance values refer to the part number creator.

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

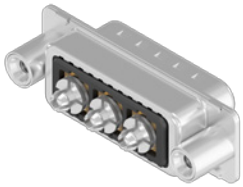
Termination Code	ø A	ø B min.	ø B max.
P1	3.13	2.96	3.11
P2	3.27	3.10	3.25
P4	3.22	3.02	3.20

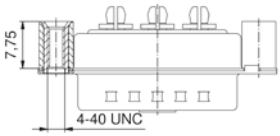
Filter Combination D-SUB Connectors
C-Filter

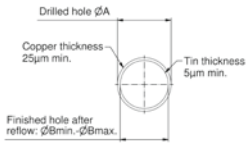
Press-fit contact straight
Precision machined contacts

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

4-40 UNC threaded rear spacer, coded version







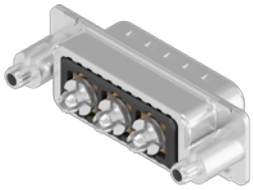
No. of poles	Current rating [A]	Working voltage [VDC]	Hole diameter PCB [mm]	Capacitance [nF]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	30	100	3.11	47	E228329	3	2F2CSA22SP1AA0X	2F2CPA22SP1AA0X
			3.25				2F2CSA22SP2AA0X	2F2CPA22SP2AA0X
			3.20				2F2CSA22SP4AA0X	2F2CPA22SP4AA0X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

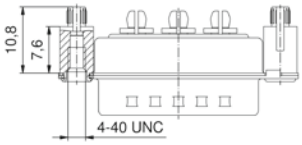
For other capacitance values refer to the part number creator.

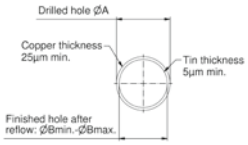
Capacitance value	Code
100 nF	28
47 nF	22
12 nF	14
10 nF	12
5 nF	08
1.3 nF	05

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

4-40 UNC rear press-fit spacer







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

For other capacitance values refer to the part number creator.

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

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

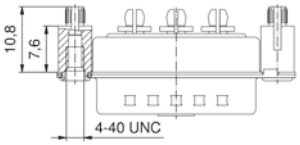
Filter Combination D-SUB Connectors
C-Filter

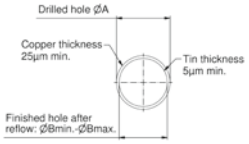
Press-fit contact straight
Precision machined contacts

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

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







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

For other capacitance values refer to the part number creator.

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

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

Section 5

D-SUB Hoods and Accessories



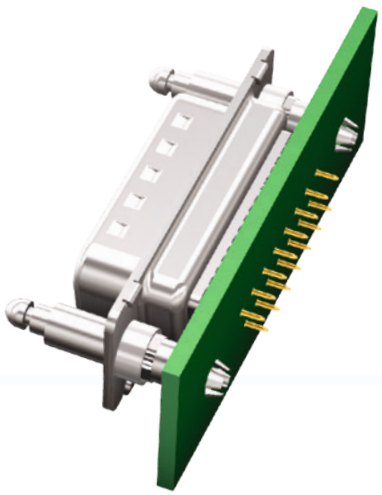










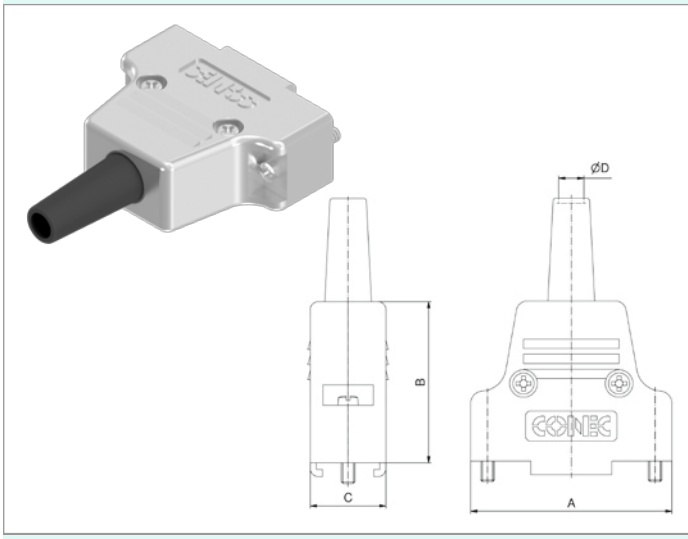


D-SUB Hoods and Accessories
EMI / RFI shielding

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

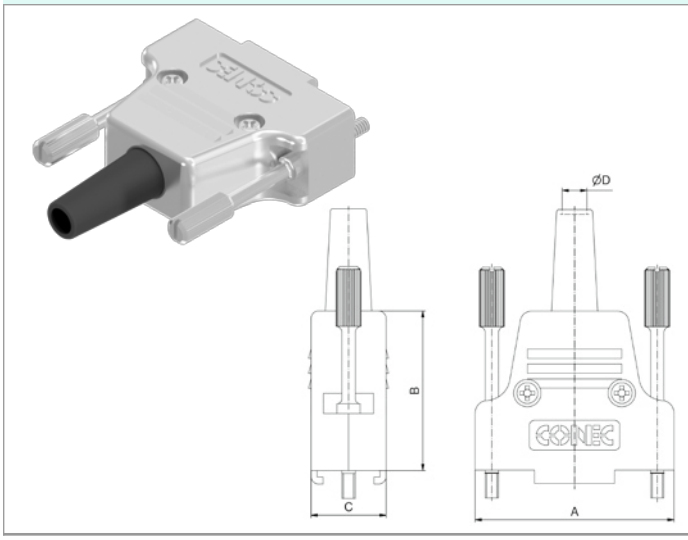
On request:
- M3 thread

4-40 UNC short screw



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	31.7	30	15	5	E202784	165X17409X
15			40	32				165X17419X
25			53.7	35		7		165X17429X
37			70.2	41				165X17439X
50			67.8		17.7	9.3		165X17449X

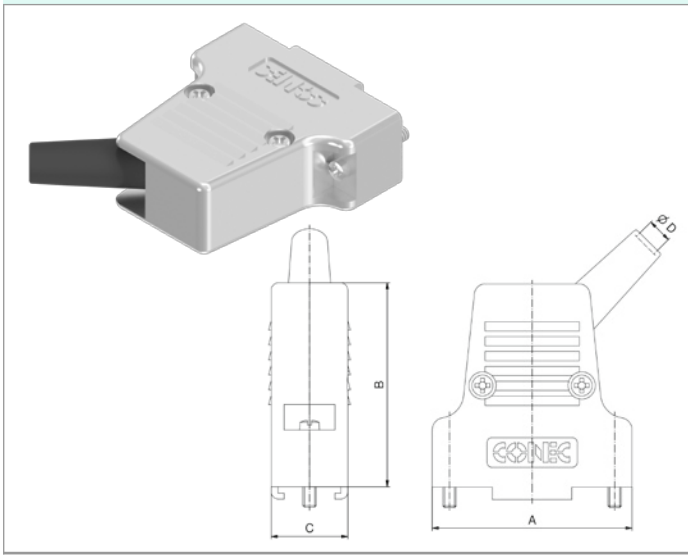
4-40 Unc jack screw



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	31.7	45.1	15	5	E202784	165X17309X
15			40	48.2				165X17319X
25			53.7	51.3		7		165X17329X
37			70.2	54.4				165X17339X
50			67.8	57.5	17.7	9.3		165X17349X

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

4-40 UNC short screw



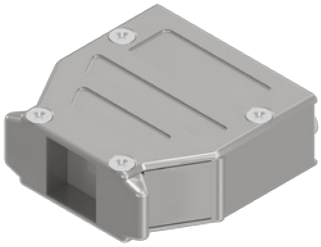
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	/	1	31.8	39.5	15.4	5	E202784	165X17559X
15			40.3	41				165X17569X
25			54	45		7		165X17579X
37			70.2	48				165X17589X
50			67.8		18.5	9.3		165X17599X

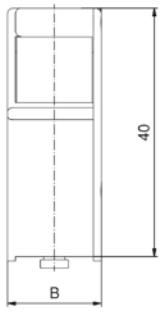
D-SUB Hoods and Accessories
EMI / RFI shielding

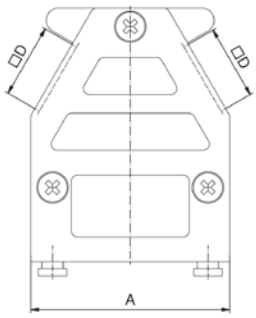
D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

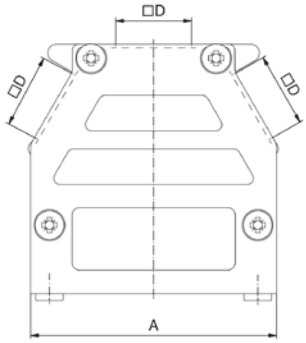
Cable clamp must be ordered separately
On request:
- *Crimp flange*

Type 1 without jack screws



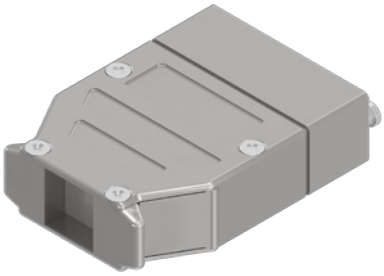


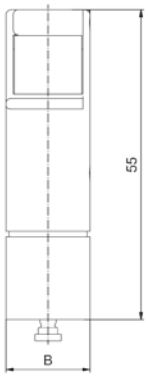


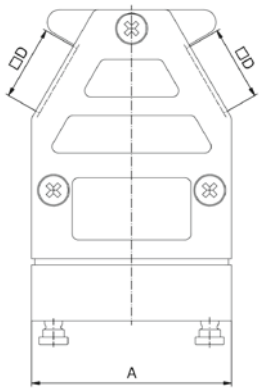


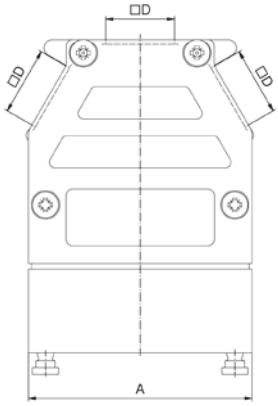
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File	Part No.
09	/	2	32	14.8	12.1	E202784	165X10819X
15	1		39.3				165X10829X
25			53.2				165X10839X
37			69.5				165X10849X
50			67	17.8	14.6		165X10859X

Type 2 without jack screws



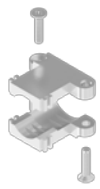


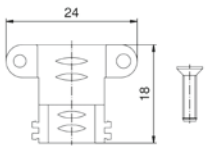




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File	Part No.
09	/	2	32	14.8	12.1	E202784	165X11159X
15	1		39.3				165X10869X
25			53.2				165X10879X
37			69.5				165X10889X
50			67	17.8	14.6		165X10899X

Cable clamp





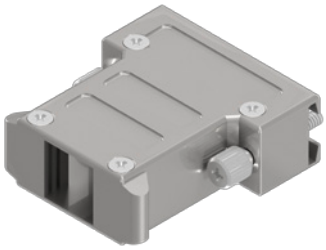
No. of poles	Cable diameter	Part No.
09-37	3-12 mm	160X11189X
50	5-14 mm	160X11199X

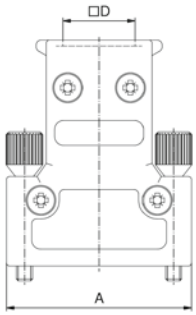
D-SUB Hoods and Accessories
EMI / RFI shielding

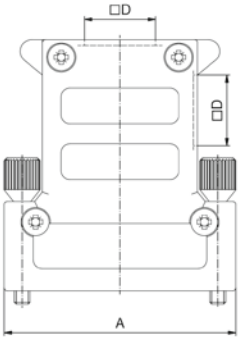
D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

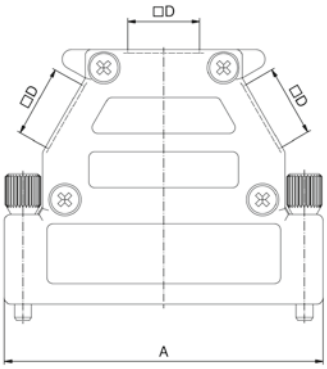
Cable clamp must be ordered separately
On request:
- *M3 thread*
- *Crimp flange*

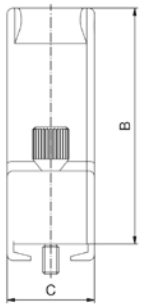
Type 1 Jack screws











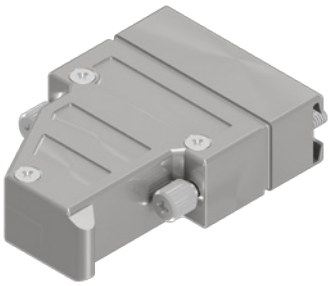
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	31	35.5	14.8	12.1	E202784	165X11609X
15		1	39.4	40				165X11619X
25			53.2					165X11629X
37		2	69.6					165X11639X
50			67	42	17.8	14.6		165X11649X

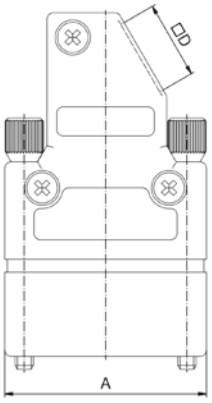
D-SUB Hoods and Accessories
EMI / RFI shielding

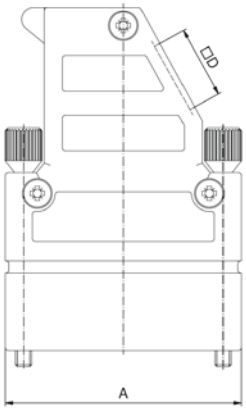
D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

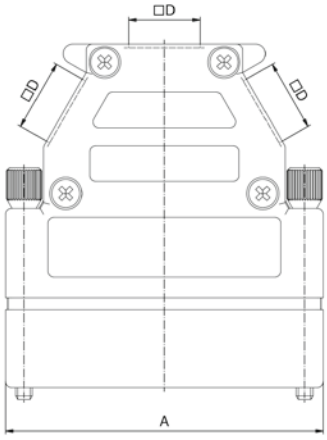
Cable clamp must be ordered separately
On request:
- *M3 thread*
- *Crimp flange*

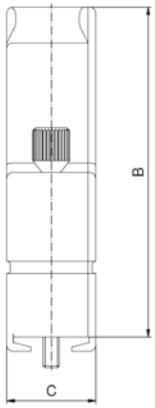
Type 2 Jack screws





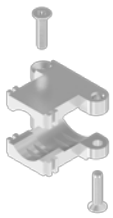


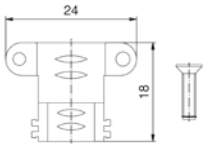




No. of poles	*Number of straight cable entries*	*Number of side cable entries*	*Measure A [mm]*	*Measure B [mm]*	*Measure C [mm]*	*Measure D [mm]*	*UL-File*	*Part No.*
09		/	31	50.5				165X14409X
15		1	39.4					165X14419X
25	1		53.2	55	14.8	12.1	E202784	165X14429X
37		2	69.6					165X14439X
50			67	57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

Cable clamp





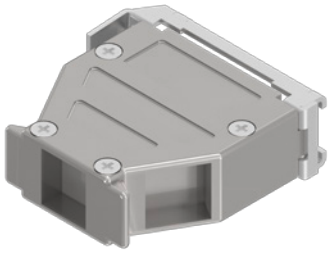
No. of poles	*Cable diameter*	*Part No.*
09-37	3-12 mm	160X11189X
50	5-14 mm	160X11199X

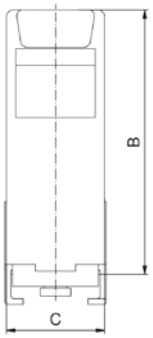
D-SUB Hoods and Accessories
EMI / RFI shielding

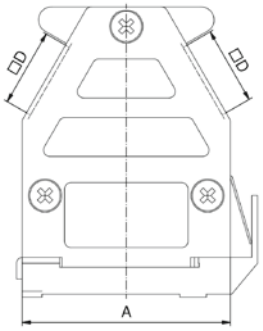
D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

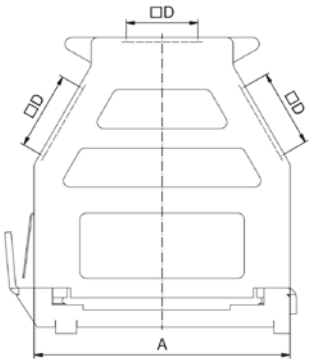
Cable clamp must be ordered separately
On request:
- *Crimp flange*

Slide lock



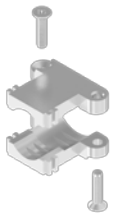


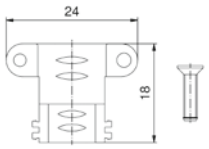




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File	Part No.
09	/	2	32	14.8	12.1	E202784	165X11659X
15	1		39.3				165X11669X
25			53.2				165X11679X
37			69.5				165X11689X
50			67	17.8	14.6		165X11699X

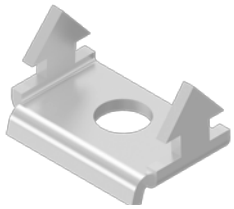
Cable clamp





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

Locking hooks for slide lock





		Part No.
09-37		165X10119X
50		165X10129X

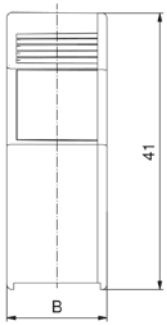
D-SUB Hoods and Accessories
EMI / RFI shielding

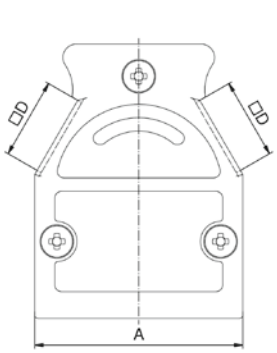
D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

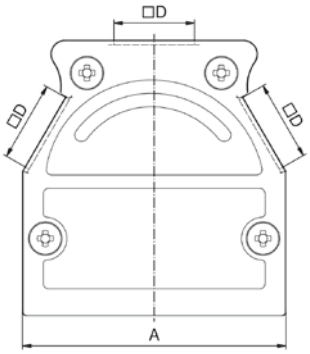
Cable clamp must be ordered separately

Without jack screw, internal ground





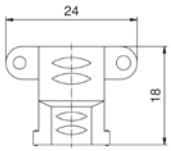




No. of poles	*Number of straight cable entries*	*Number of side cable entries*	*Measure A [mm]*	*Measure B [mm]*	*Measure D [mm]*	*UL-File*	*Part No.*
09	/	2	31	14.8	12 x 0.9	E202784	600X51109X
15	1		39				600X51115X
25			53				600X51125X
37			69.5				600X51137X
50			67	17.6	14.3 x 11.6		600X51150X

Cable clamp





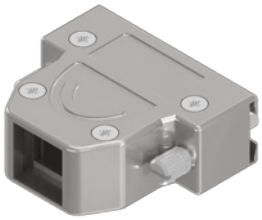
No. of poles	*Cable diameter*	
09-37	3-12 mm	160X10139X
50	5-14 mm	160X10149X

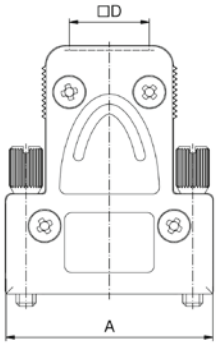
D-SUB Hoods and Accessories

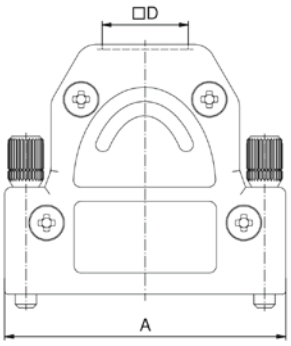
D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

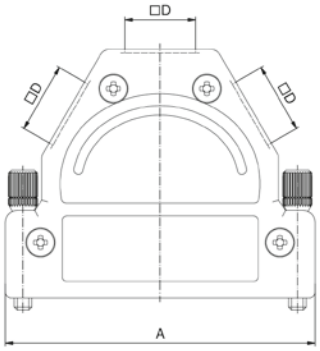
Cable clamp must be ordered separately
On request:
- *M3 thread*

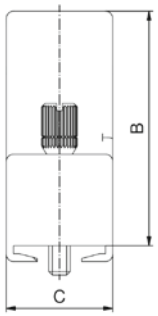
4-40 UNC jack screw







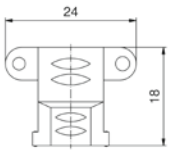




No. of poles	*Number of straight cable entries*	*Number of side cable entries*	*Measure A [mm]*	*Measure B [mm]*	*Measure C [mm]*	*Measure D [mm]*	*UL-File*	*Part No.*
09			31	37.2	15	8 x 9.00		600X51209X
15	1	/	39	35.2	14.8	11 x 9.00	E202784	600X51215X
25		2	53	42.7		11.5 x 9.00		600X51225X

Cable clamp





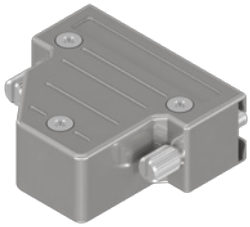
No. of poles	*Cable diameter*	
09-37	3-12 mm	160X10139X

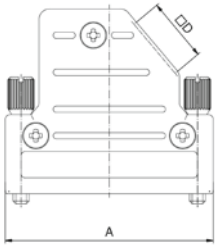
D-SUB Hoods and Accessories
EMI / RFI shielding

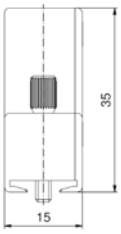
D-SUB Metal Hoods, Zinc die-cast
Side cable entry, jack screws

Cable clamp must be ordered separately
On request:
- *M3 thread*

With jack screw, internal ground



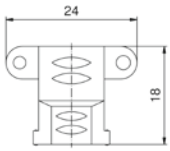




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure D [mm]	UL-File	Part No.
09	/	1	31	10 x 9.2	E202784	600X51309X
15			39	12 x 9.2		600X51315X
25			53			600X51325X

Cable clamp





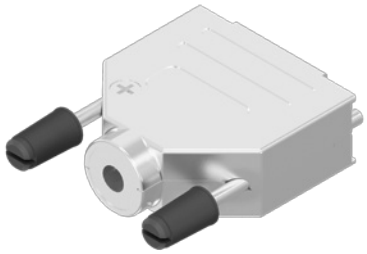
No. of poles	Cable diameter	Part No.
09-25	3-12 mm	160X10139X

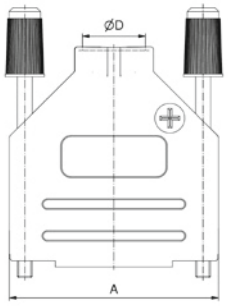
D-SUB Hoods and Accessories
EMI / RFI shielding

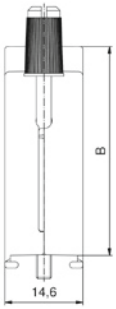
D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
Straight cable entry, plastic strain relief

Attentuation factor: > 40 dB between 30 Mhz and 1 GHz
On request:
- *M3 thread*

4-40 UNC jack screw

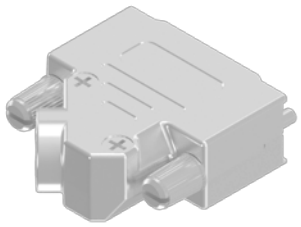


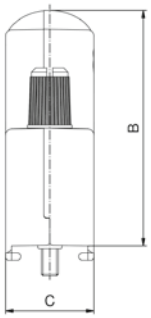


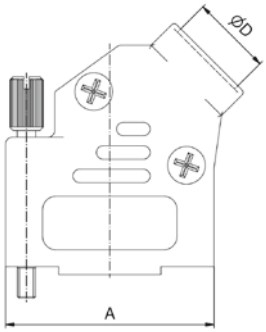


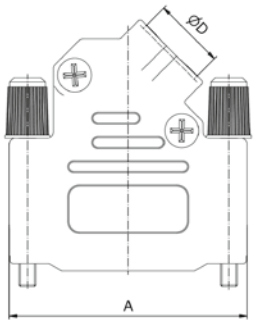
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	31.2	38.3	4 - 13	E202784	165X02609X
15			39.3	40.5			165X02619X
25			53.4	47.8			165X02629X
37			69.9	52.2			165X02639X

4-40 UNC jack screw









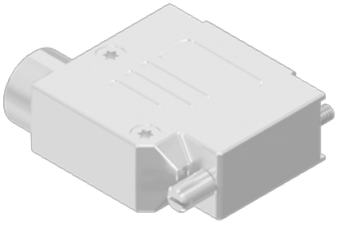
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File	Part No.
09	/	1	31	36.2	4 - 13	E202784	165X02689X
15			39.5				165X02699X
25			53.2	40.2			165X02709X
37			69.7				165X02719X

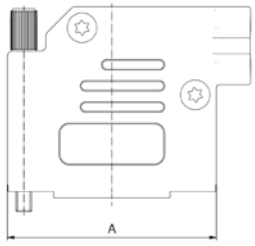
D-SUB Hoods and Accessories
EMI / RFI shielding

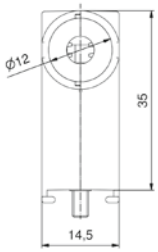
D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
Side cable entry, plastic strain relief

Attentuation factor: > 40 dB between 30 Mhz and 1 GHz
On request:
- *M3 thread*

4-40 UNC jack screw







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

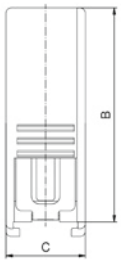
D-SUB Hoods and Accessories
CONEC SnapLock

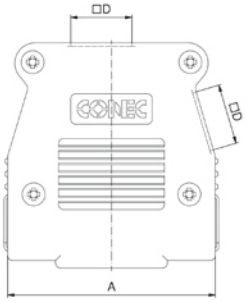
D-SUB Plastic Hoods, unshielded
Variable cable entries

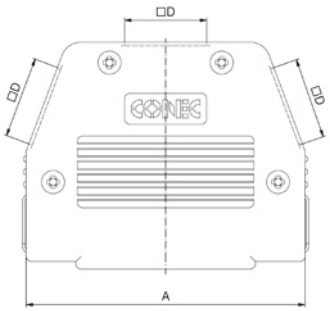
For hood to hood connection please order connection bolts separately

SnapLock, plastic black









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

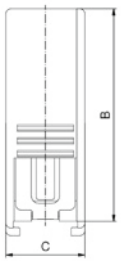
D-SUB Hoods and Accessories
CONEC SnapLock

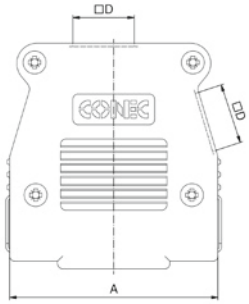
D-SUB Plastic Hoods, shielded
Variable cable entries

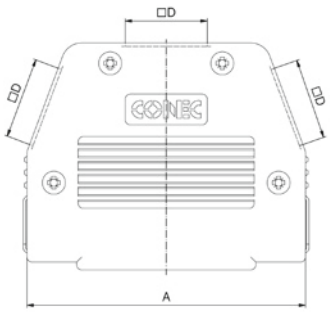
For hood to hood connection please order connection bolts separately

SnapLock, plastic metallized







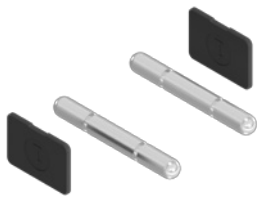


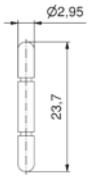
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
09	1	1	32.5	41.5	15.4	8.5	16-001750
15			40.8			10	16-001760
25		2	54.4			11	16-001770
37			70.9				16-001780
50			68.5		18.4	12	16-001790

D-SUB Hoods and Accessories
CONEC SnapLock

Kit Encoding Connection bolts
for SnapLock

Locking Kit hood-to-hood



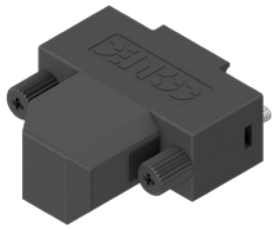


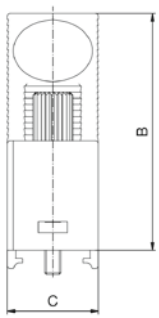


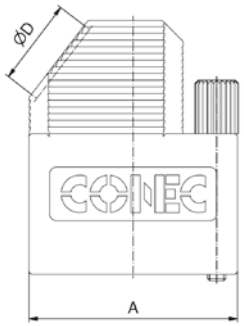
Part No.
16-002200

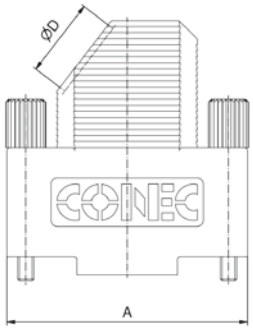
D-SUB Plastic Hoods, unshielded
Side cable entry

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



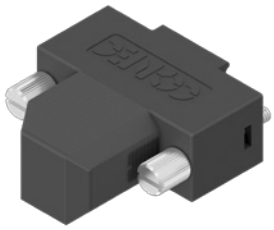


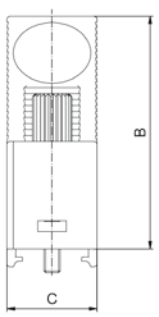


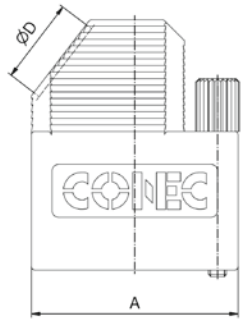


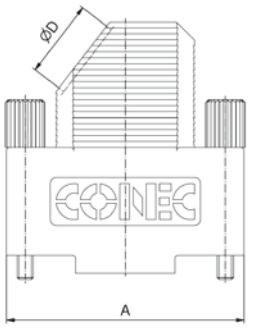
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	/	1	31.3	39.15	15	8	E202784	165X11709X
15			39.62			9		165X11719X
25			53.52			11		165X11729X
37			69.8					165X11739X
50			67.41		19	14.5		165X11749X

Plastic black, jack screws 4-40 UNC





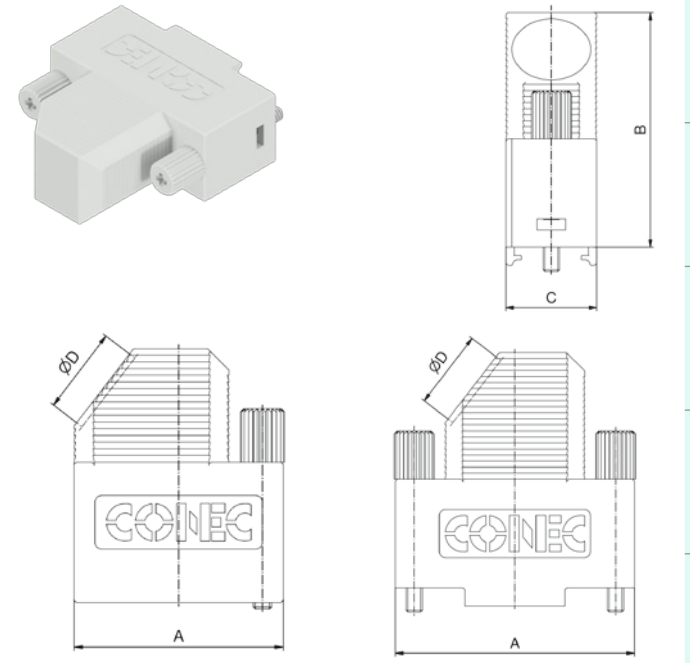




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	/	1	31.3	39.15	15	8	E202784	165X00829A
15			39.62			9		165X00839A
25			53.52			11		165X00849A
37			69.8					165X00859A
50			67.41		19	14.5		165X00869A

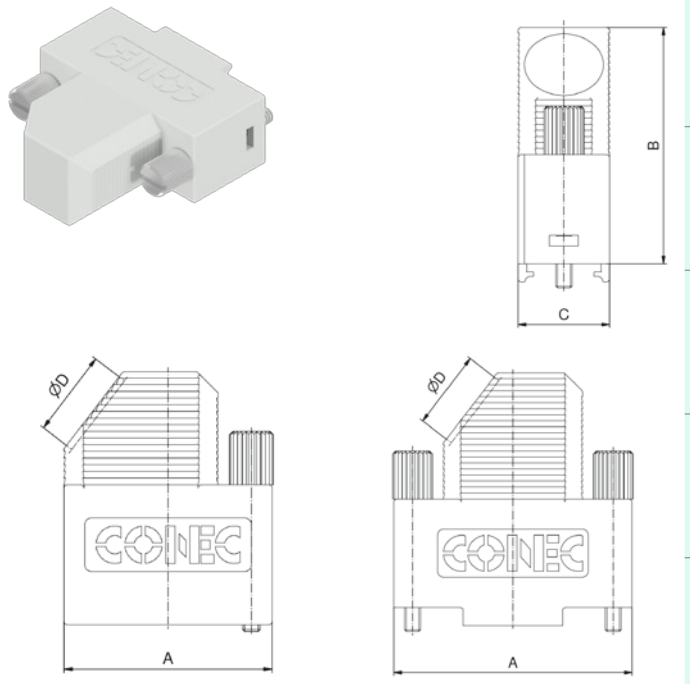
D-SUB Plastic Hoods, unshielded
Side cable entry

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		165X16019X
15			39.62			9		165X16029X
25	/	1	53.52	39.15	15	11	E202784	165X16039X
37			69.8					165X16049X
50			67.41		19	14.5		165X16059X

Plastic grey, jack screws 4-40 UNC

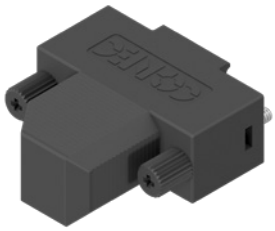


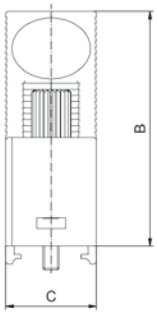
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			31.3			8		165X16069X
15			39.62			9		165X16079X
25	/	1	53.52	39.15	15	11	E202784	165X16089X
37			69.8					165X16099X
50			67.41		19	14.5		165X16109X

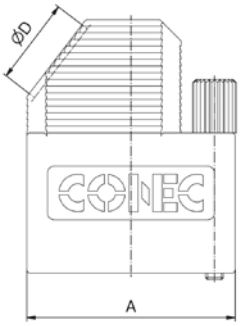
D-SUB Plastic Hoods, shielded
Side cable entry

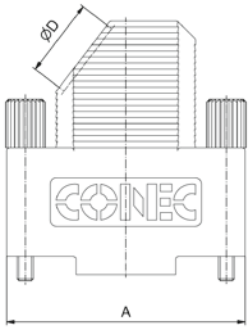
Attentuation factor at 10 MHz > 60dB

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



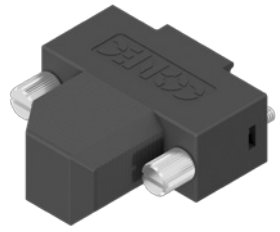


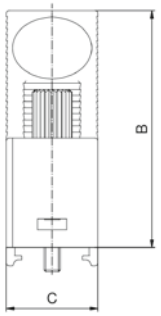


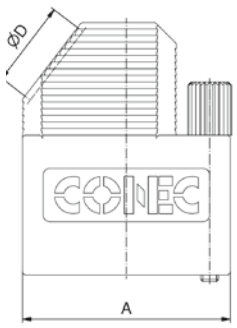


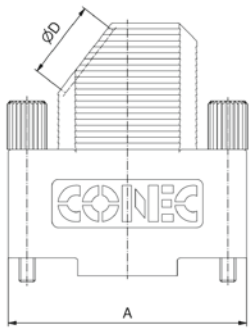
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			31.3			8		165X11759X
15			39.62			9		165X11769X
25	/	1	53.52	39.15	15	11	E202784	165X11779X
37			69.8					165X11789X
50			67.41		19	14.5		165X11799X

Plastic black, jack screws 4-40 UNC









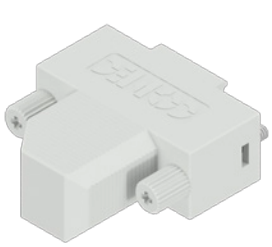
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			31.3			8		165X00779A
15			39.62			9		165X00789A
25	/	1	53.52	39.15	15	11	E202784	165X00799A
37			69.8					165X00809A
50			67.41		19	14.5		165X00819A

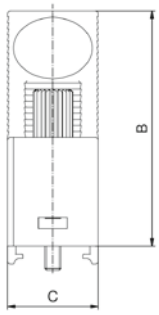
D-SUB Hoods and Accessories

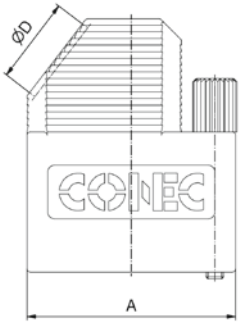
D-SUB Plastic Hoods, shielded
Side cable entry

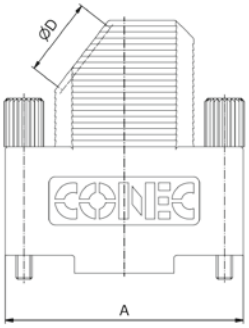
Attenuation factor at 10 MHz > 60dB

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



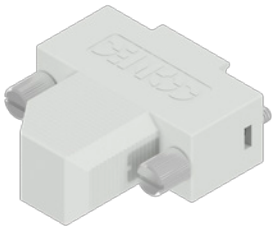


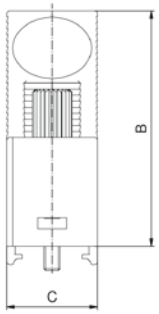


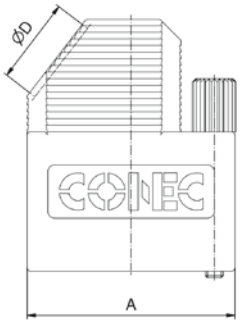


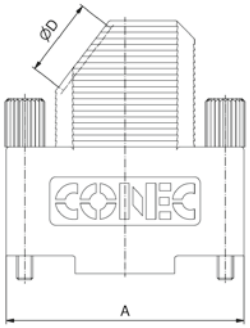
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	/	1	31.3	39.15	15	8	E202784	165X16119X
15			39.62			9		165X16129X
25			53.52			11		165X16139X
37			69.8					165X16149X
50			67.41		19	14.5		165X16159X

Plastic grey, jack screws 4-40 UNC









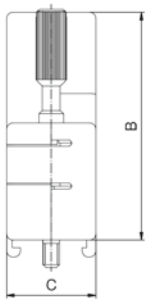
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	/	1	31.3	39.15	15	8	E202784	165X16169X
15			39.62			9		165X16179X
25			53.52			11		165X16189X
37			69.8					165X16199X
50			67.41		19	14.5		165X16209X

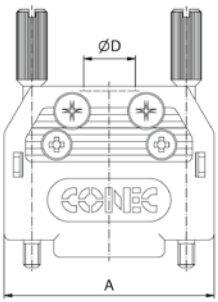
D-SUB Plastic Hoodss, two part
Straight cable entry

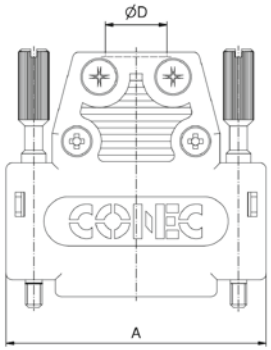
Integrated cable clamping
On request:
- *M3 thread*

Plastic black, 4-40 UNC jack screws





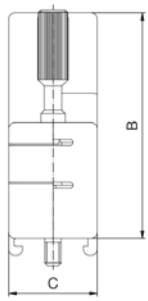


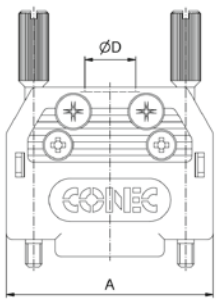


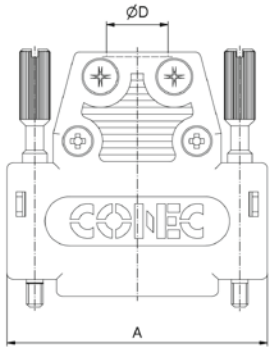
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	34	25	14.5	8.5	E202784	165X10139X
15			42.3	37		10		165X10149X
25			56			10.5		165X10159X
37			72.5					165X10169X
50			67	49.1	19.8	14		165X10179X

Plastic metallized, 4-40 UNC jack screws









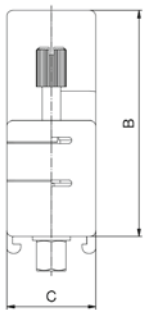
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	34	25	14.5	8.5	E202784	165X10909X
15			42.3	37		10		165X10919X
25			56			10.5		165X10929X
37			72.5					165X10939X
50			67	49.1	19.8	14		165X10949X

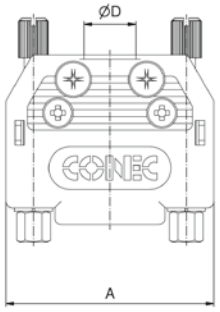
D-SUB Plastic Hoods, two part
Straight cable entry, Cable-to-cable connection

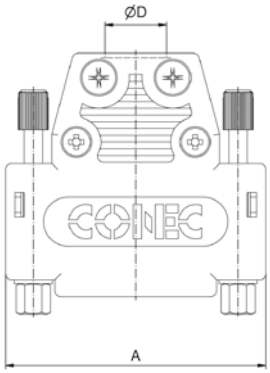
Integrated cable clamping
On request:
- *M3 thread*

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



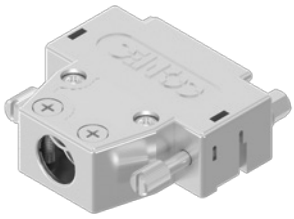


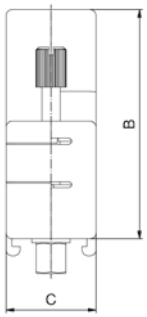


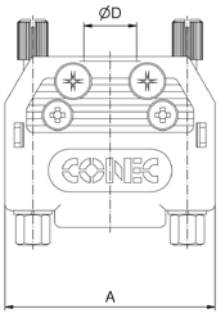


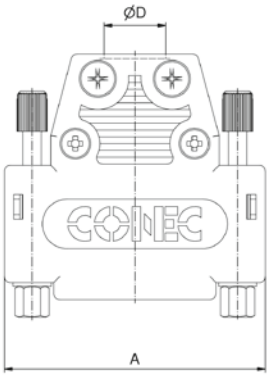
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	34	25	14.5	8.5	E202784	165X10239X
15			42.3	37		10		165X10249X
25			56			10.5		165X10259X
37			72.5					165X10269X
50			67	49.1	19.8	14		165X10279X

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









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

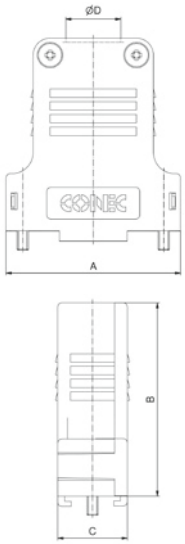
D-SUB Hoods and Accessories
Suitable for Combination D-SUB Connectors

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

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

Plastic black, 4-40 UNC short screw

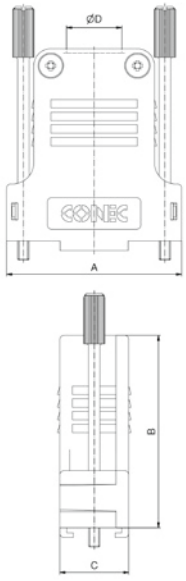




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	32.9	39.5	16.3	11	E202784	165X13369X
15			41.2	45.5				165X13379X
25			54.9	52.5		12		165X13389X
37			71.4	55.5	18.7	15		165X13399X
50			69	55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

Plastic black, 4-40 UNC jack screws

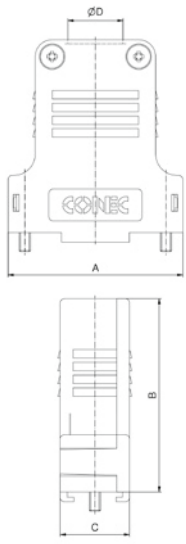




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	32.9	39.5	16.3	11	E202784	165X03309A
15			41.2	45.5				165X03319A
25			54.9	52.5		12		165X03329A
37			71.4	55.5	18.7	15		165X03339A
50			69	55	19.5	14		165X03349A

Plastic metallized, 4-40 UNC short screws





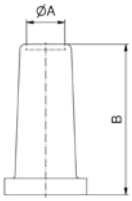
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	32.9	39.5	16.3	11	E202784	165X13469X
15			41.2	45.5				165X13479X
25			54.9	52.5		12		165X13489X
37			71.4	55.5	18.7	15		165X13499X
50			69	55	19.5	14		165X13509X

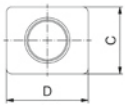
D-SUB Hoods and Accessories
Suitable for Combination D-SUB Connectors

D-SUB Plastic Hoods, large internal space

Cable grommet for 9 - 50 pos. hood







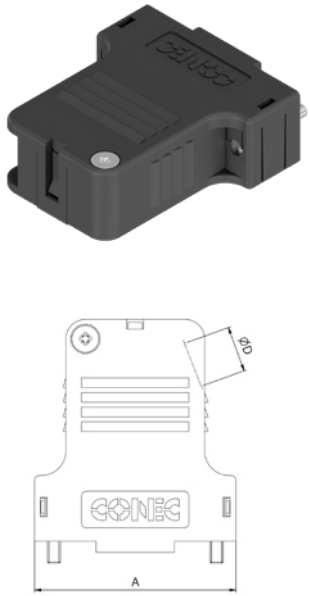
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
09/15	5	24.5	11.2	11.2	795-907600
25/37	7	27.5	12.2	15	795-907700
50	9.3	29.2	15	20	795-907800

D-SUB Hoods and Accessories
Suitable for Combination D-SUB Connectors

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

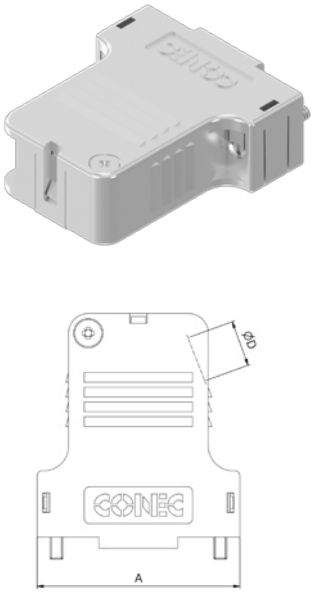
Large internal space for crimp, high power and coaxial contacts
On request:
- *M3 thread*

Plastic black, 4-40 UNC short screws



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

Plastic metallized, 4-40 UNC short screws

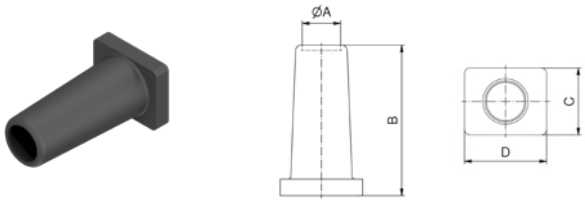


No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			32.9	39.5		8.6		165X13519X
15			41.2	45.5	16.4	9.4		165X13529X
25	/	1	54.9	52.5		13	E202784	165X13539X
37			71.4	55	18.8	15		165X13549X
50			69		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



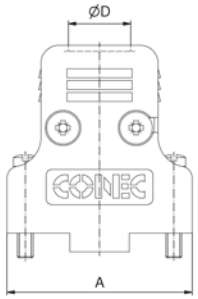
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
09/15	5	24.5	11.2	11.2	795-907600
25/37	7	27.5	12.2	15	795-907700
50	9.3	29.2	15	20	795-907800

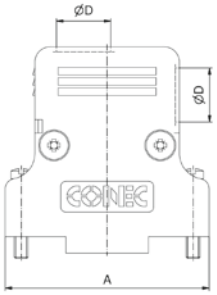
D-SUB Plastic Hoods, fixed screws
Variable cable entries

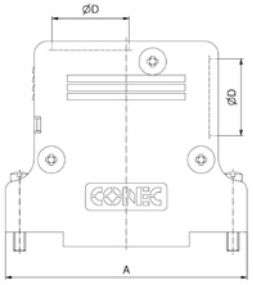
Integrated cable clamping

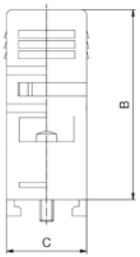
Plastic grey, 4-40 UNC short screws







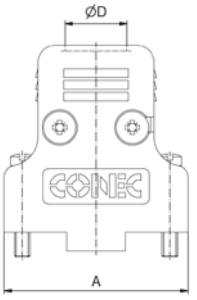


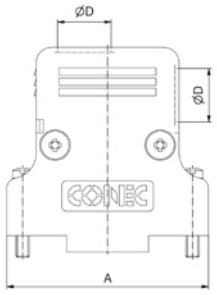


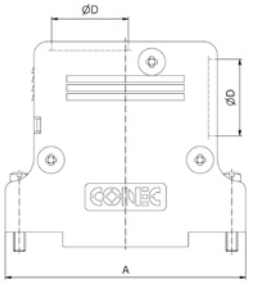
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	31.2	31.8	15.6	8	E202784	165X11869X
15		1	39.5	37				165X11879X
25			53.2	42.2		10		165X11889X
37			69.7					165X11899X
50			67.3		18.5	12.5		165X11909X

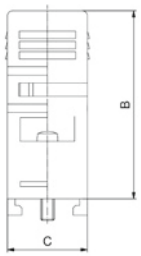
Plastic metallized, 4-40 UNC short screws











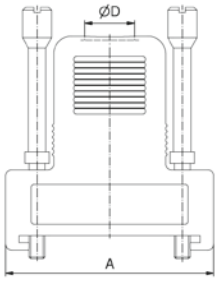
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	31.2	31.8	15.6	8	E202784	165X11919X
15		1	39.5	37				165X11929X
25			53.2	42.2		10		165X11939X
37			69.7					165X11949X
50			67.3		18.5	12.5		165X11959X

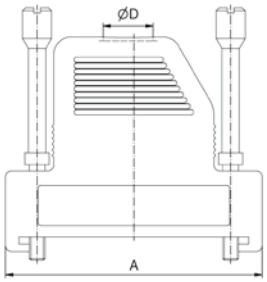
D-SUB Plastic Hoods, low profile
Straight cable entry

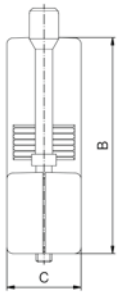
Space-saving, side-by-side mounting
Packaging: in pack units as a single package

Plastic black, 4-40 UNC jack screws



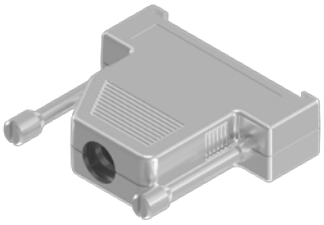


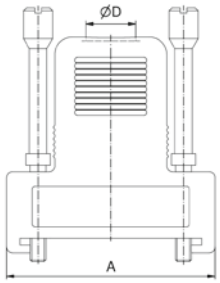


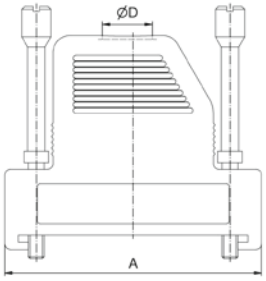


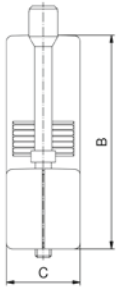
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	35.8	37	12.6	8	E202784	165X16219X
15			44.1	38				165X16229X
25			57.9	41		9		165X16239X
37			74.3					165X16249X

Plastic metallized, 4-40 UNC jack screws









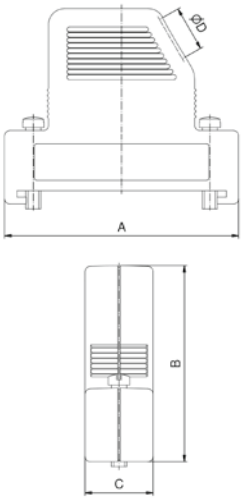
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	35.8	37	12.6	8	E202784	165X16299X
15			44.1	38				165X16309X
25			57.9	41		9		165X16319X
37			74.3					165X16329X

D-SUB Plastic Hoods, low profile
Side cable entry

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

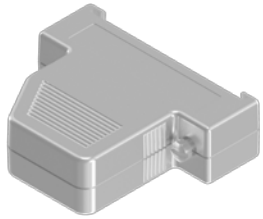
Plastic black, 4-40 UNC short screws

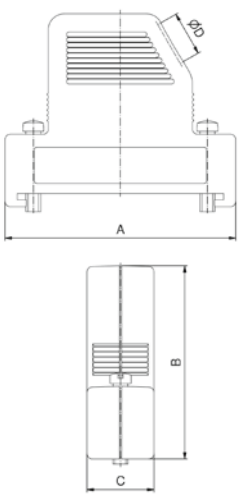




No. of poles	Number of straight cable entries		Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09				35.8	37		8		165X16379X
15				44.1	38				165X16389X
25		/	1	57.9		12.6		E202784	165X16399X
37				74.3	41		9		165X16409X

Plastic metallized, 4-40 UNC short screws





No. of poles	Number of straight cable entries		Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09				35.8	37		8		165X16459X
15				44.1	38				165X16469X
25		/	1	57.9		12.6		E202784	165X16479X
37				74.3	41		9		165X16489X

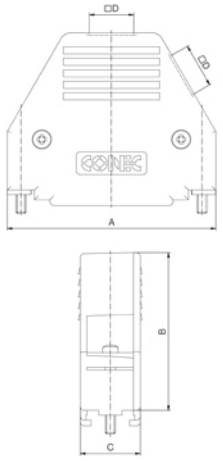
D-SUB Hoods and Accessories

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

Entries not in use are blanked off with blanking plugs

Plastic black, 4-40 UNC short screws

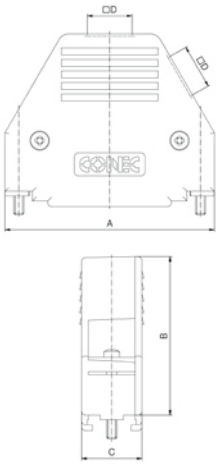




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	1	32	36.7	16.5	6.3	E202784	165X11239X
15			40	38.2		8		165X11249X
25			54.2	42.2		10.5		165X11259X
37			70.6	47.2		11.5		165X11269X
50			68.2		20.6	13.7		165X16539X

Plastic black, slide lock version including spring





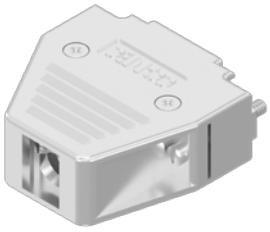
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	1	32	36.7	16.5	6.3	E202784	165X11279X
15			40	38.2		8		165X11289X
25			54.2	42.2		10.5		165X11299X
37			70.6	47.2		11.5		165X11309X
50			68.2		20.6	13.7		165X16549X

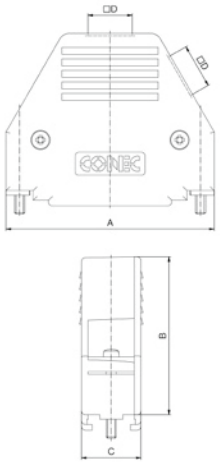
D-SUB Hoods and Accessories

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

Entries not in use are blanked off with blanking plugs

Plastic metallized, 4-40 UNC short screws

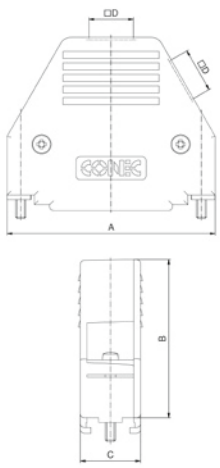




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	1	32	36.7	16.5	6.3	E202784	165X11319X
15			40	38.2		8		165X11329X
25			54.2	42.2		10.5		165X11339X
37			70.6	47.2		11.5		165X11349X
50			68.2		20.6	13.7		165X16559X

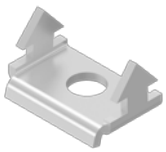
Plastic metallized, slide lock version including spring





No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	1	32	36.7	16.5	6.3	E202784	165X11359X
15			40	38.2		8		165X11369X
25			54.2	42.2		10.5		165X11379X
37			70.6	47.2		11.5		165X11389X
50			68.2		20.6	13.7		165X16569X

Locking hooks for 9-50 pos. hood





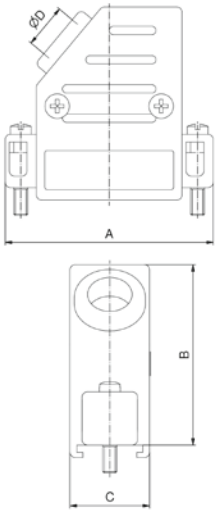
No. of poles	Part No.
09-37	165X10119X
50	165X16609X

D-SUB Plastic Hoods
Side cable entry

Packaging: in pack units as a single package

Plastic black, 4-40 UNC short screws

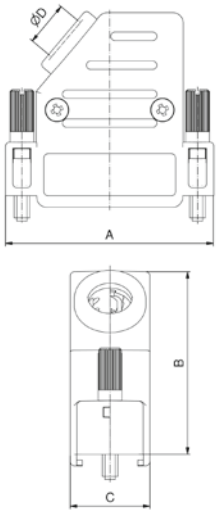




No. of poles	Number of straight cable entries		Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09				31.5	37	15.2	8.5	E202784	600X54009X
15				40					600X54015X
25	/		1	53.5	41		11		600X54025X
37				70					600X54037X
50				67.8		18.2	12		600X54050X

Plastic black, 4-40 UNC jack screws





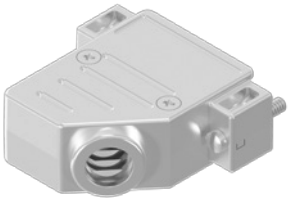
No. of poles	Number of straight cable entries		Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09				31.5	37	15.2	8.5	E202784	600X55009X
15				40					600X55015X
25	/		1	53.5	41		11		600X55025X
37				70					600X55037X
50				67.8		18.2	12		600X55050X

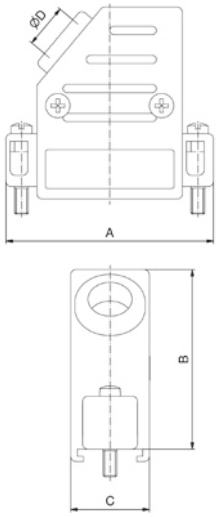
D-SUB Hoods and Accessories

D-SUB Plastic Hoods
Side cable entry

Packaging: in pack units as a single package

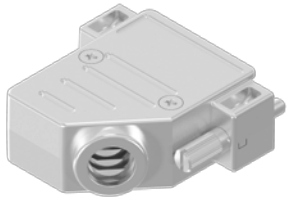
Plastic metallized, 4-40 UNC short screws

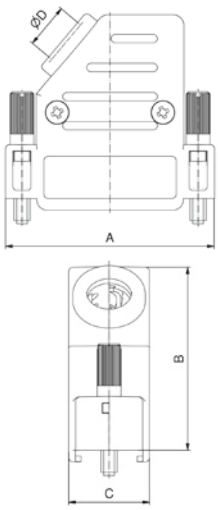




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	/	1	31.5	37	15.2	8.5	E202784	600X56009X
15			40					600X56015X
25			53.5	41		11		600X56025X
37			70					600X56037X
50			67.8		18.2	12		600X56050X

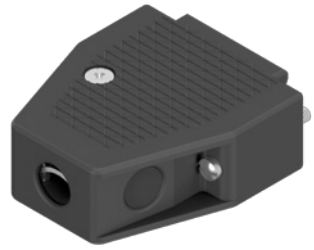
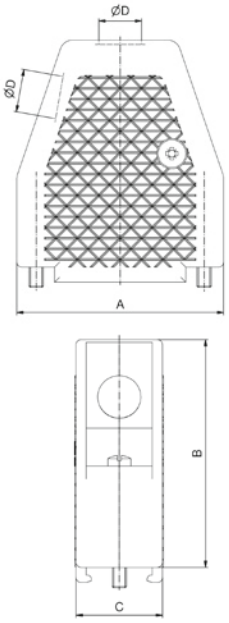
Plastic metallized, 4-40 UNC jack screws

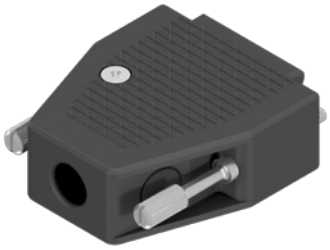
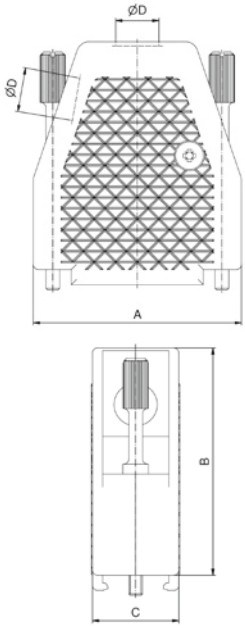




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	/	1	31.5	37	15.2	8.5	E202784	600X57009X
15			40					600X57015X
25			53.5	41		11		600X57025X
37			70					600X57037X
50			67.8		18.2	12		600X57050X

D-SUB Plastic Hoods
Straight and side cable entry

Plastic black, 4-40 UNC short screws	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
 	09	1	1	33	45.5	17	7.5	E202784	165X13019X
	15			41			8.5		165X13029X
	25			55	47		10.5		165X13039X
	37			71.3	51		11		165X13049X
	50			69	50	20	12.5		165X13059X

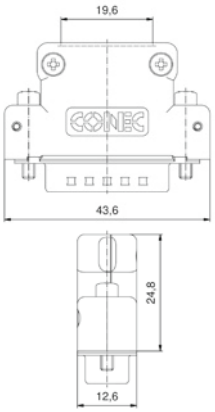
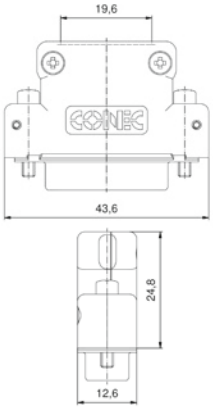
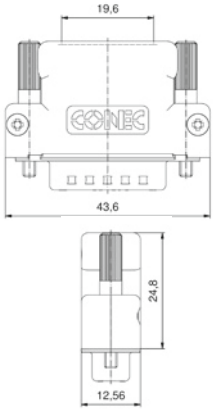
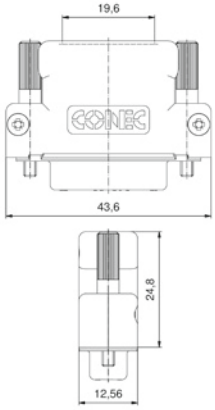
Plastic black, 4-40 UNC jack screws									
 	09	1	1	33	45.5	17	7.5	E202784	165X13079X
	15			41			8.5		165X13089X
	25			55	47		10.5		165X13099X
	37			71.3	51		11		165X13109X
	50			69	50	20	12.5		165X13119X

D-SUB Hoods and Accessories

D-SUB Plastic Hoods
With integrated crimp connector 7W2

This hood can only be used in conjunction with the special connector.
- *Integrated strain relief*

On request:
- *Available with bridged singal contacts*

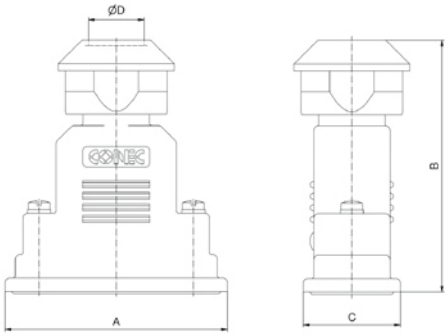
		No. of poles	*Number of straight cable entries*	*Number of side cable entries*	*Part No. Socket contact*	*Part No. Plug contact*
Plastic black, short screws Philips						
		7W2	1	/	13-000220	13-002780
Plastic black, short scews Inbus						
		7W2	1	/	13-000210	13-002770
Plastic black, jack screws Philips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

IP67 D-SUB Plastic Hoods
Straight cable entry

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

Plastic black, 4-40 UNC short screws stainless steel

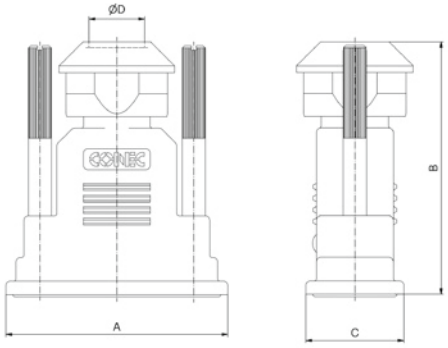




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
09	1	/	40	54.3	21	7 - 9	15-004710
15			48	54.6		9 - 11	15-004720
25			62	67.7		10 - 12	15-004730
37			78	77.2	25.2	14 - 16	15-004740
50			75.6		23.8		15-004750

Plastic black, 4-40 UNC jack screws stainless steel



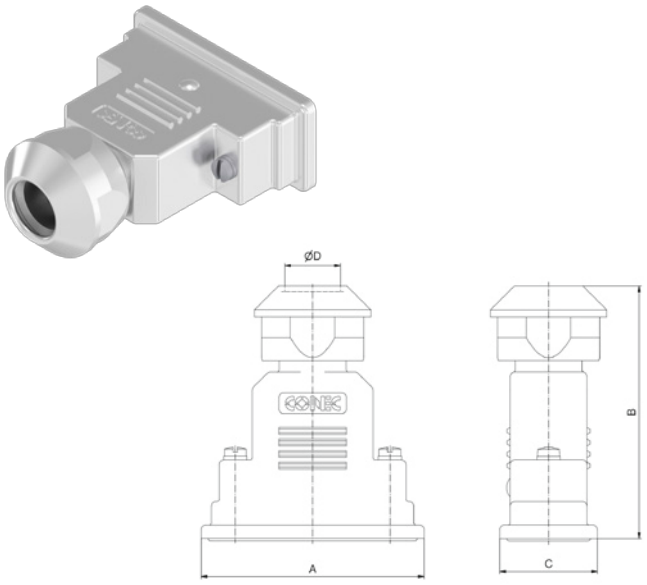


No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
15	1	/	40	54.3	21	7 - 9	15-004670
25			62	67.7		10 - 12	15-004680
37			78	77.2	25.2	14 - 16	15-004690
50			75.6		23.8		15-004700

IP67 D-SUB Plastic Hoods
Straight cable entry

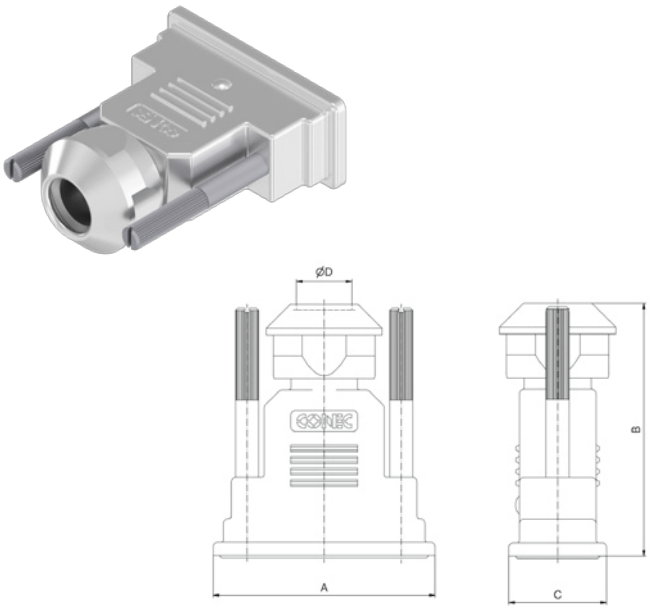
Water resistant hood for Standard and Combination D-SUB connectors
For high power and coaxial contacts
Packaging: in pack units as a single package

Plastic metallized, 4-40 UNC short screws stainless steel



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

Plastic metallized, 4-40 UNC jack screws stainless steel



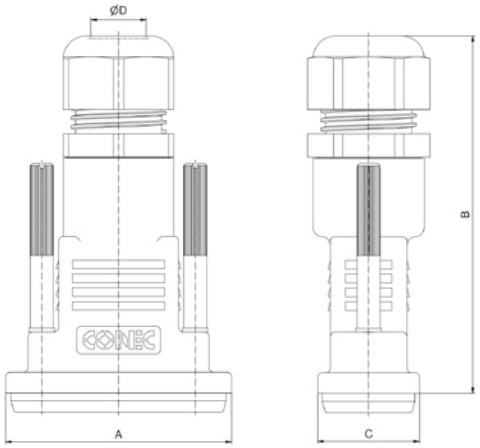
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
15	1	/	40	54.3	21	7 - 9	15-004770
25			62	67.7		10 - 12	15-004780
37			78	77.2	25.2	14 - 16	15-004790
50			75.6		23.8		15-004800

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

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

Plastic black, 4-40 UNC jack screws

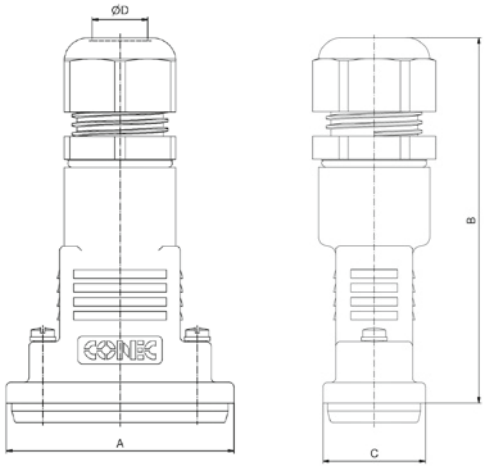




No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	40.76	77	22	5 - 10	E202784	165X14819X
15			49.06	79		6 - 12		165X14829X
25			62.8	87.5				165X14839X
37			78.86	99		9 - 16		165X14849X
50			76.46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

Plastic black, 4-40 UNC short screws



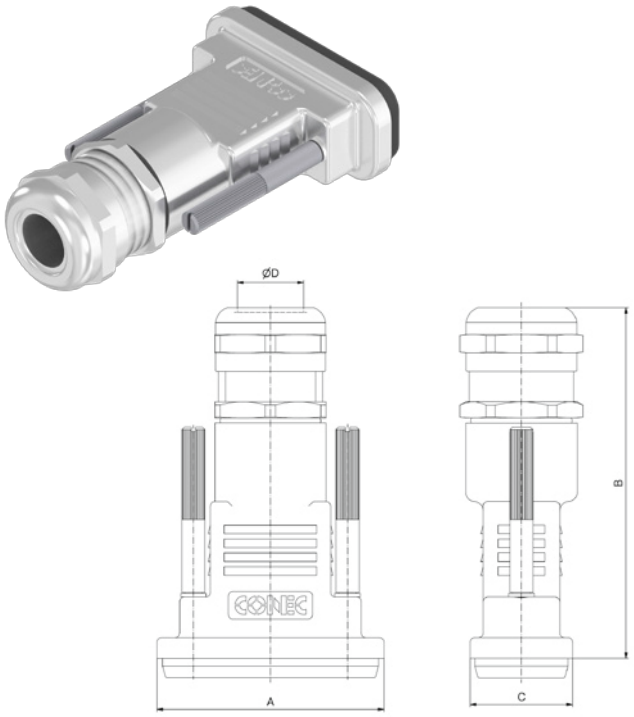


No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09	1	/	40.76	77	22	5 - 10	E202784	165X14869X
15			49.06	79		6 - 12		165X14879X
25			62.8	87.5				165X14889X
37			78.86	99		9 - 16		165X14899X
50			76.46	107	24.8	13 - 20		165X14909X

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

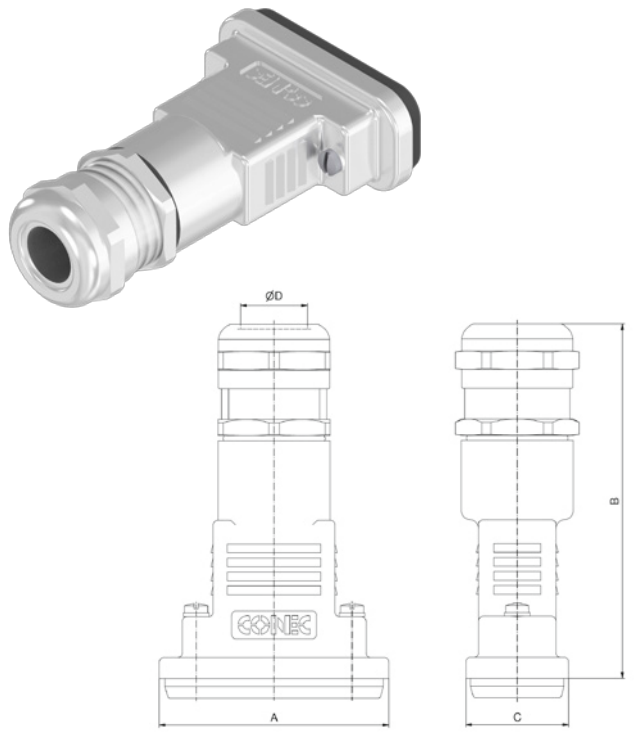
Water resistant hood for Standard and Combination D-SUB connectors
Large internal space for crimp, high power and coaxial contacts
Accessories: Protection cap and Outside sealing made from TPE
On request:
- *M3 thread*

Plastic metallized, 4-40 UNC jack screws



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

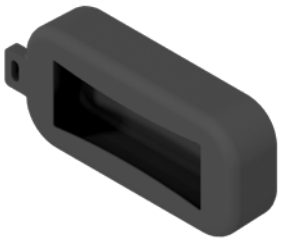
Plastic metallized, 4-40 UNC short screws

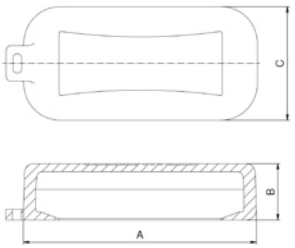


No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	
09	1	/	40.76	77	22	5 - 10	E202784	165X15069X
15			49.06	79		7 - 12		165X15079X
25			62.8	87.5				165X15089X
37			78.86	99		9 - 16		165X15099X
50			76.46	107	24.8	13 - 20		165X15109X

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

Protection cap

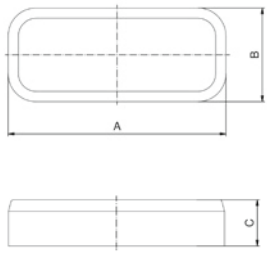




No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	UL-File	Part No.
09	44.56	12.6	25.6	E202784	165X17509X
15	52.86				165X17519X
25	66.6				165X17529X
37	82.66				165X17539X
50	80.26		28.4		165X17549X

Outside sealing





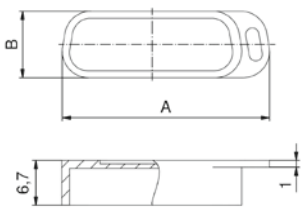
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	UL-File	Part No.
09	38.36	20	9.9	E202784	795-305420
15	46.66				795-305490
25	60.4				795-305580
37	76.86				795-305640
50	74.5	22.8			795-305710

D-SUB protection caps
Plastic design, for socket connector

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

Plastic black

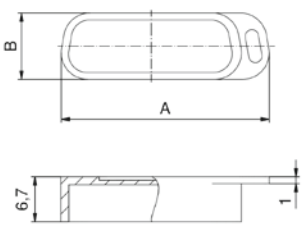




No. of poles	Measure A [mm]	Measure B [mm]	Part No.
09	22.9	10	160X10449X
15	31.4		160X10459X
25	44.7		160X10469X
37	61.2		160X10479X
50	58.8	12.8	160X10959X

Plastic metallized





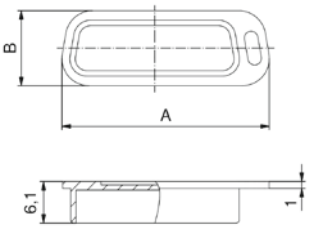
No. of poles	Measure A [mm]	Measure B [mm]	Part No.
09	22.9	11	600X518009X
15	31.4		600X518015X
25	44.7		600X518025X
37	61.2		600X518037X
50	58.8	13.7	600X518050X

D-SUB protection caps
Plastic design, for plug connector

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

Plastic black

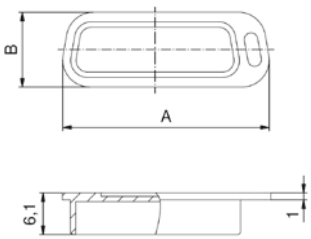




No. of poles	Measure A [mm]	Measure B [mm]	Part No.
09	22.5	10	160X10409X
15	30.65		160X10419X
25	44.4		160X10429X
37	60.75		160X10439X
50	58.15	12.8	160X10969X

Plastic metallized



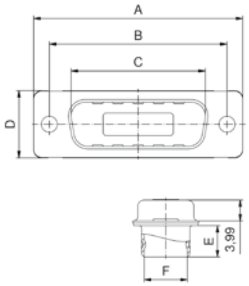


No. of poles	Measure A [mm]	Measure B [mm]	Part No.
09	22.5	11	600X517009X
15	30.65		600X517015X
25	44.4		600X517025X
37	60.75		600X517037X
50	58.15	13.7	600X517050X

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

Through-hole Ø 3 mm





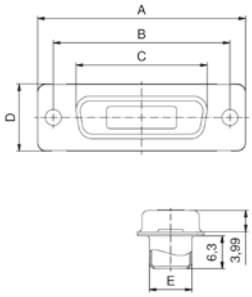
Shielded cap protecting against EMI/RFI
Shell: steel tin plated

No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.79	12.93	6.12	8.23	165X12969X
15	39.52	33.3	25.12				165X12979X
25	53.42	47.04	38.84		5.99		165X12989X
37	69.7	63.5	55.3				165X12999X
50	67.31	61.1	52.68	15.75		10.95	165X13009X

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

Through-hole Ø 3 mm





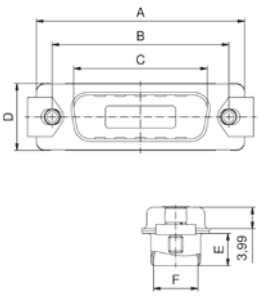
Shielded cap protecting against EMI/RFI
Shell: steel tin plated

No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.46	12.93	8.02	165X13129X
15	39.52	33.3	24.79			165X13139X
25	53.42	47.04	38.5			165X13149X
37	69.7	63.5	54.96			165X13159X
50	67.31	61.1	52.55	15.75	10.87	165X13169X

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

4-40 UNC screws and clip





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

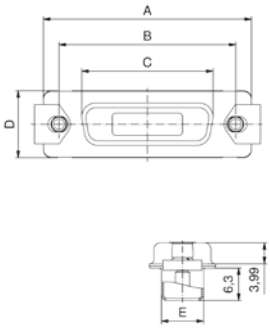
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.79	12.93	6.12	8.23	165X16719X
15	39.52	33.3	25.12				165X16729X
25	53.42	47.04	38.84		5.99		165X16739X
37	69.7	63.5	55.3				165X16749X
50	67.31	61.1	52.68	15.75		10.95	165X16759X

D-SUB Hoods and Accessories

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

4-40 UNC screws and clip





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

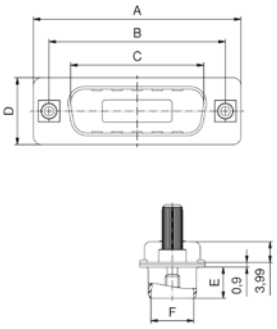
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.46	12.93	8.02	165X16769X
15	39.52	33.3	24.79			165X16779X
25	53.42	47.04	38.5			165X16789X
37	69.7	63.5	54.96			165X16799X
50	67.31	61.1	52.55	15.75	10.87	165X16809X

D-SUB Hoods and Accessories

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

4-40 UNC jack screws





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

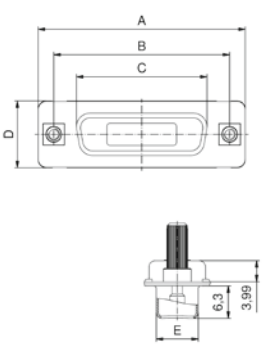
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.79	12.93	6.12	8.23	165X16909X
15	39.52	33.3	25.12				165X16919X
25	53.42	47.04	38.84		5.99		165X16929X
37	69.7	63.5	55.3				165X16939X
50	67.31	61.1	52.68	15.75		10.95	165X16949X

D-SUB Hoods and Accessories

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

4-40 UNC jack screws





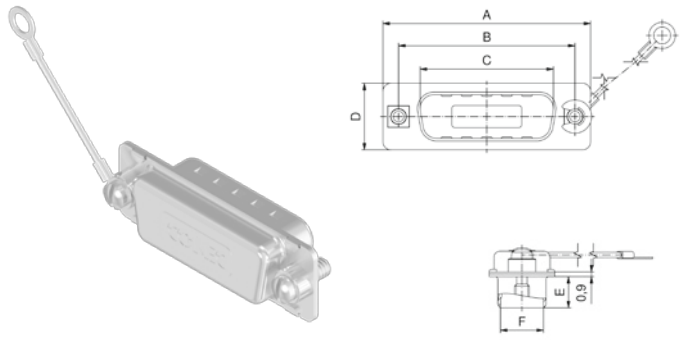
Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
- *M3 thread*

No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.93	8.02	165X17009X
15	39.52	33.3	25.12			165X17019X
25	53.42	47.04	38.84			165X17029X
37	69.7	63.5	55.3			165X17039X
50	67.31	61.1	52.68	15.75	10.87	165X17049X

D-SUB Hoods and Accessories

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

4-40 UNC screws



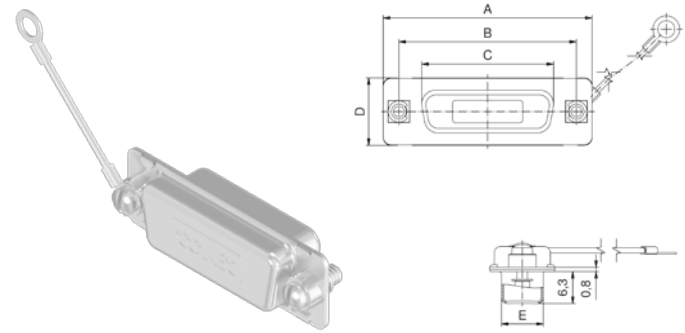
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.46	12.6	6.12	8.26	16-001050
15	39.52	33.3	24.79				16-001060
25	53.42	47.04	38.5		5.99		16-001070
37	69.7	63.5	54.96				16-001080
50	67	61.11	52.5	15.38	6.12	11.07	16-001090

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



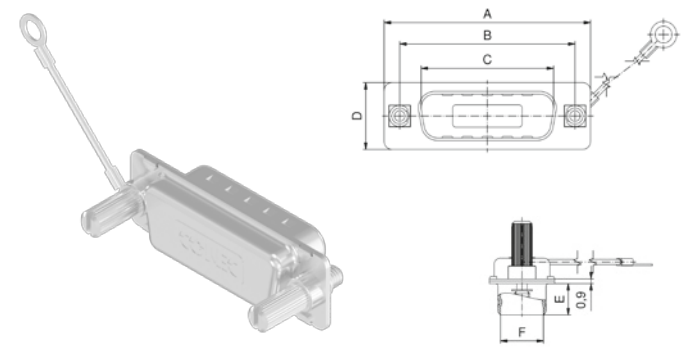
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.6	8	16-001150
15	39.52	33.3	25.12			16-001160
25	53.42	47.04	38.84			16-001170
37	69.7	63.5	55.3			16-001180
50	67	61.11	52.81	15.38	10.81	16-001190

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		5.99		16-000860
37	69.7	63.5	54.96				16-000870
50	67	61.11	52.5	15.38	6.12	11.07	16-000890

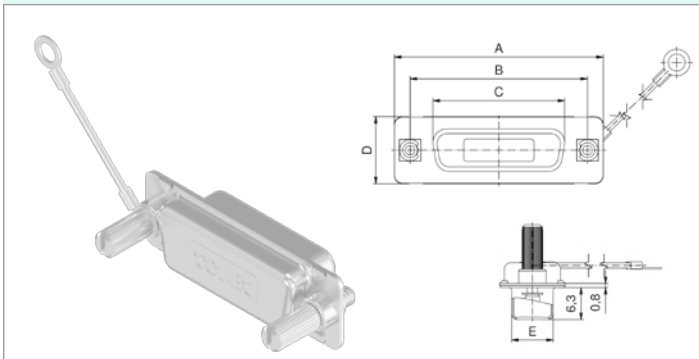
Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
- *M3 thread*

D-SUB Hoods and Accessories

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

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

4-40 UNC steel jack screws



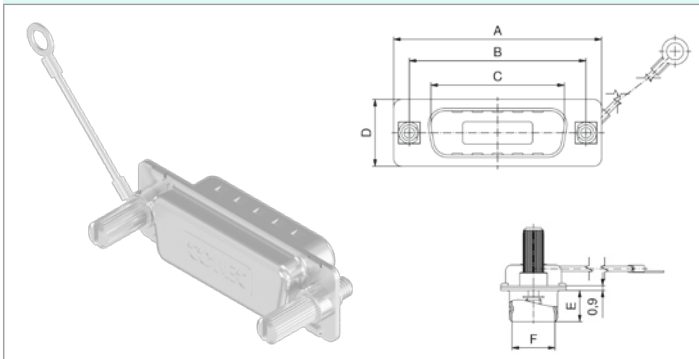
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.6	8	16-000950
15	39.52	33.3	25.12			16-000960
25	53.42	47.04	38.84			16-000970
37	69.7	63.5	55.3			16-000980
50	67	61.11	52.81	15.38	10.81	16-000990

D-SUB Hoods and Accessories

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

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

4-40 UNC stainless steel jack screws



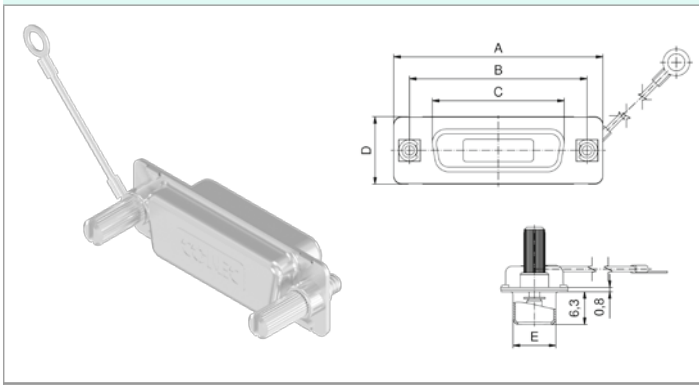
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.46	12.6	6.12	8.26	16-000280
15	39.52	33.3	24.79				16-000290
25	53.42	47.04	38.5		5.99		16-000300
37	69.7	63.5	54.96				16-000310
50	67	61.11	52.5	15.38	6.12	11.07	16-000320

D-SUB Hoods and Accessories

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

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

4-40 UNC stainless steel jack screws



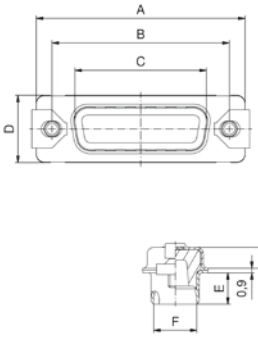
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.6	8	16-000380
15	39.52	33.3	25.12			16-000390
25	53.42	47.04	38.84			16-000400
37	69.7	63.5	55.3			16-000410
50	67	61.11	52.81	15.38	10.81	16-000420

D-SUB Hoods and Accessories

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

4-40 UNC screws and clip





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

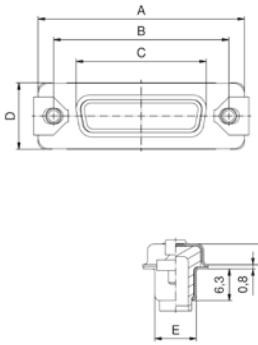
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.79	12.93	6.12	8.23	165X14719X
15	39.52	33.3	25.12				165X14729X
25	53.42	47.04	38.84		5.99		165X14739X
37	69.7	63.5	55.3				165X14749X
50	67.31	61.1	52.68	15.75		10.95	165X14759X

D-SUB Hoods and Accessories

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

4-40 UNC screws and clip





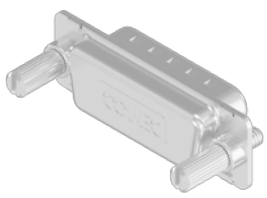
IP67 Protection cap with gasket
Protection against EMI/RFI
Shell: steel tin plated
On request:
- *M3 thread*

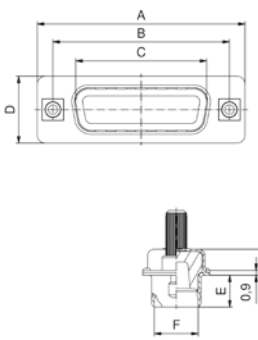
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.46	12.93	8.02	165X14769X
15	39.52	33.3	24.79			165X14779X
25	53.42	47.04	38.5			165X14789X
37	69.7	63.5	54.96			165X14799X
50	67.31	61.11	52.55	15.75	10.87	165X14809X

D-SUB Hoods and Accessories

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

4-40 UNC jack screws





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

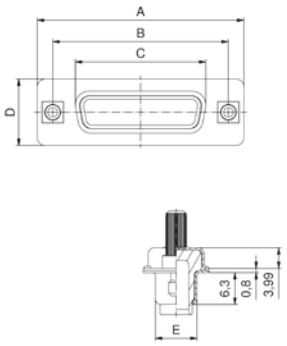
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.79	12.93	6.12	8.23	165X17109X
15	39.52	33.3	25.12				165X17119X
25	53.42	47.04	36.84		5.99		165X17129X
37	69.7	63.5	55.3				165X17139X
50	67.31	61.1	52.68	15.75		10.95	165X17149X

D-SUB Hoods and Accessories

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

4-40 UNC jack screws





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

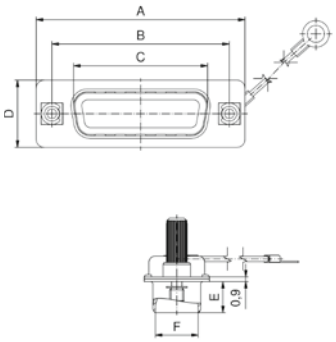
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.46	12.93	8.02	165X17209X
15	39.52	33.3	24.79			165X17219X
25	53.42	47.04	38.5			165X17229X
37	69.7	63.5	54.96			165X17239X
50	67.31	61.1	52.55	15.75	10.87	165X17249X

D-SUB Hoods and Accessories

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

4-40 UNC jack screws stainless steel





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

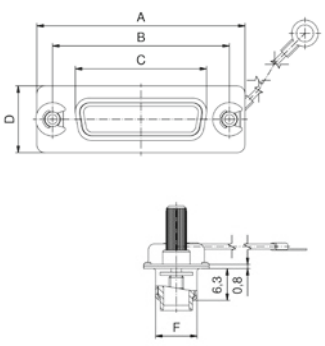
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.46	12.6	6.12	8.26	15-000010
15	39.52	33.3	24.79				15-000020
25	53.42	47.04	38.5		5.99		15-000030
37	69.7	63.5	54.96				15-000040
50	67	61.11	52.5	15.38	6.12	11.07	15-000050

D-SUB Hoods and Accessories

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

4-40 UNC jack screws stainless steel

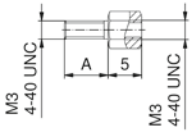
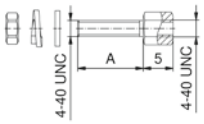
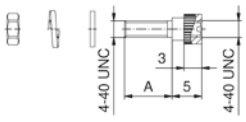




IP67 Protection cap with gasket
Protection against EMI/RFI
Shell: brass tin plated
Lanyard: stainless steel
Jack screws: stainless steel
On request:
- *M3 thread*

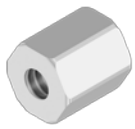
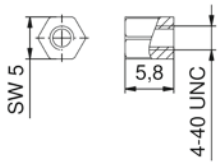
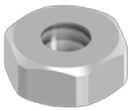
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.6	8	15-000110
15	39.52	33.3	25.12			15-000120
25	53.42	47.04	38.84			15-000130
37	69.7	63.5	55.3			15-000140
50	67	61.11	52.81	15.38	10.81	15-000150

D-SUB Hardware accessories

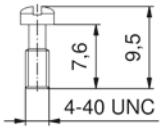
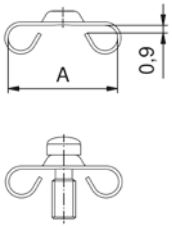
Length A [mm]	Internal thread	External thread	Part No.
Single hex bolts packaging unit 200 pieces			
 			
6.5	4-40 UNC	4-40 UNC	740-353770
8.0			740-331370
11.0			740-331570
13.0			740-331870
14.0			740-331670
4.0	M3	M3	740-354470
7.0			740-320570
8.0			740-342470
13.0			740-365270
4.0	4-40 UNC		740-354370
7.0			740-320170
13.0			740-344970
Single hex bolts set packaging unit 100 pieces			
 			
8.0	4-40 UNC	4-40 UNC	160X10359X
14.0			160X10639X
8.0	M3	M3	160X10529X
Screw locking set packaging unit 100 pieces			
 			
8.0	4-40 UNC	4-40 UNC	160X10329X

D-SUB Hoods and Accessories

D-SUB Hardware accessories

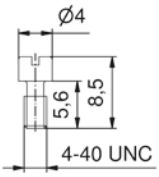
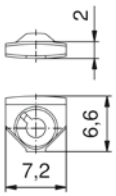
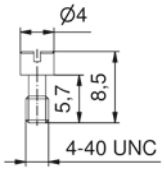
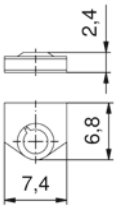
		Internal thread	Part No.
Hex bolt nut .228" 5.8 mm			
		4-40 UNC	160X10379X
Flat washer			
			765-329670
Spring ring			
			765-329570
Nut			
		4-40 UNC	765-329770
		M3	765-329870

D-SUB Hardware accessories

Set 4-40 UNC Screw locking with clamp	No. of poles	Material	Measure A [mm]	Part No.
  	09-37	steel	13.3	160X10259X
	50		15.9	160X10659X

D-SUB Hoods and Accessories

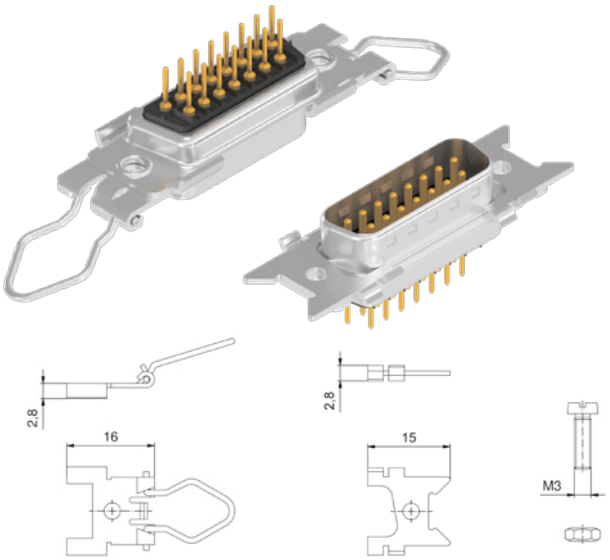
D-SUB Hardware accessories

Set 4-40 UNC Screw locking with clamp	No. of poles	Material	Part No.
  	09-50	stainless steel	160X00470A
Set 4-40 UNC Screw locking with clamp			
  	09-50	brass	16-505750

D-SUB Hardware accessories

Set spring locking

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



Assembly Example

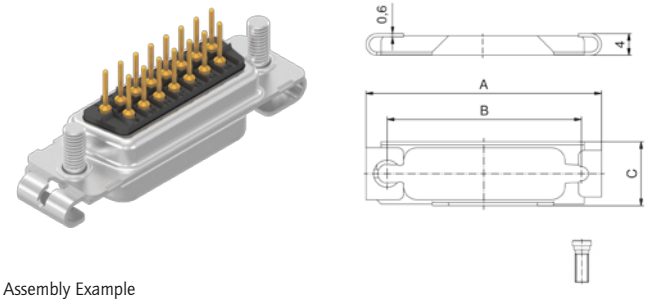
No. of poles	Material	Part No.
09-37	steel	160X10239X

D-SUB Hoods and Accessories

D-SUB Hardware accessories

Set Slide lock Type 3

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



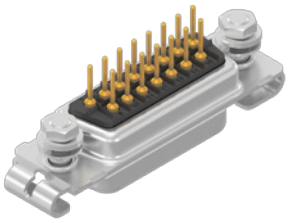
Assembly Example

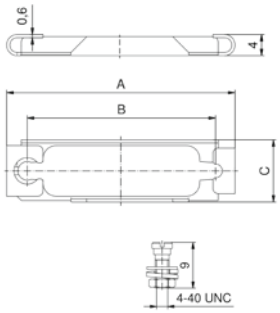
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Part No.
09	35	27.4	12	160X10159X
15	43.3	35.7	11.5	160X10169X
25	57	49.4	12	160X10179X
37	74.4	65.9		160X10189X
50	72	63.5	15	160X10199X

D-SUB Hardware accessories

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

Set Slide lock Type 4





Assembly Example

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

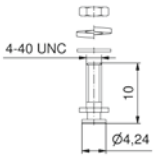
D-SUB Hoods and Accessories

D-SUB Hardware accessories

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

Set Holding bolt for slide lock type 3 + 4





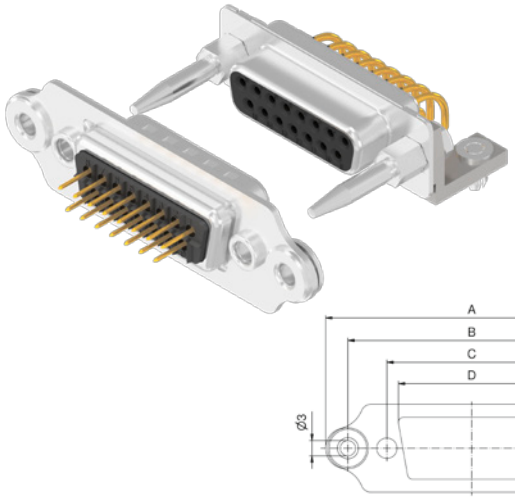
No. of poles	Part No.
09-50	160X10209X

D-SUB Hoods and Accessories

D-SUB Hardware accessories

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

Blind mating frame



Assembly Example

No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	49.02	40.28	24.99	20.2	17.2	160X10889X
15	57.35	48.62	33.32	28.8		160X10899X
25	71.25	62.51	47.04	42.5		160X10909X
37	87.53	78.79	63.5	59.1		160X10919X
50	85.14	76.4	61.11	56.3	20.04	160X10929X

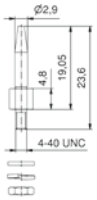
D-SUB Hoods and Accessories

D-SUB Hardware accessories

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

Blind mating guide posts





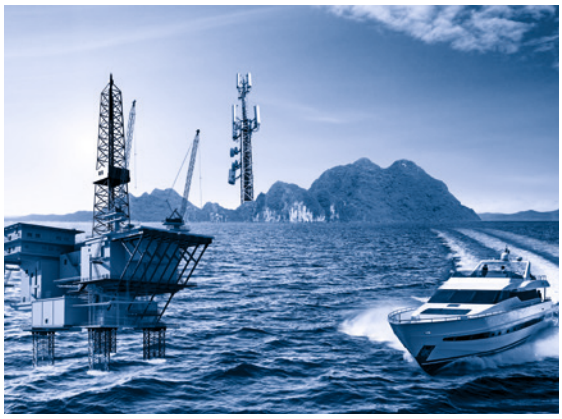
No. of poles	Part No.
09-50	160X10949X

Section 6

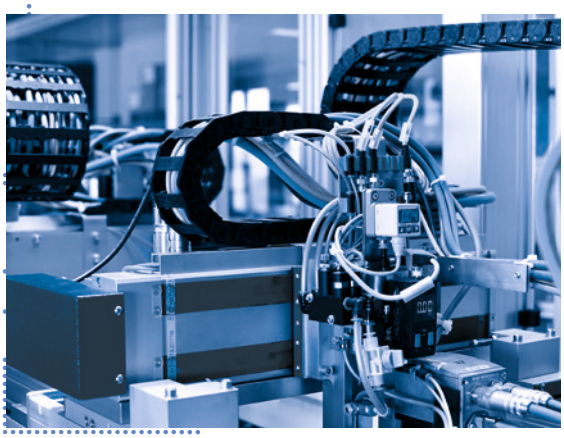
IP67 D-SUB Connectors













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-O					
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			60 V AC/DC		
	depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1					
Current rating	7.5 A (UL) / 5 A (CSA, VDE)			3 A (UL) / 2.5 A (CSA, VDE)		
Contact resistance	max. 10 mΩ prior to stressing ΔR max. 10 mΩ after stressing per IEC 60807-2					
Insulation resistance	≥ 5 GΩ					
Clearance and creepage distance	Contact - Contact ≥ 1.0 mm /0.04"			≥ 0.6 mm / 0.024"		
	Contact - earth ≥ 1.2 mm /0.047"					
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	9 pos. ≤ 30 N		15 pos. ≤ 50 N	15 pos. ≤ 50 N	
	15 pos. ≤ 50 N	15 pos. ≤ 50 N		26 pos. ≤ 84 N	26 pos. ≤ 84 N	
	25 pos. ≤ 30 N	25 pos. ≤ 83 N		44 pos. ≤ 120 N	44 pos. ≤ 120 N	
		37 pos. ≤ 123 N			62 pos. ≤ 170 N	
		50 pos. ≤ 167 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 termial dipping parameters	
	max. temperature	duration (max.)	max. Solder bath temperature	max. terminal immersion time
IP67 D-SUB CONEC SlimCon and Solid Body	150 °C	180 s	265 °C	8 s
IP67 D-SUB Standard	120 °C	120 s	240 °C	5 s

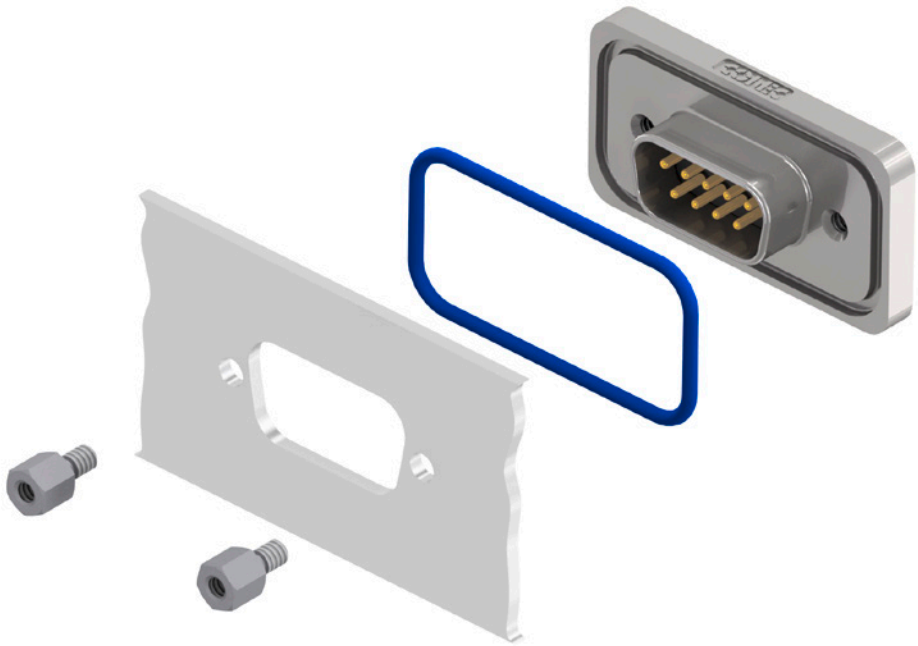
Technical specifications are subject to change without notice.

Panel mounting

Front panel mounting



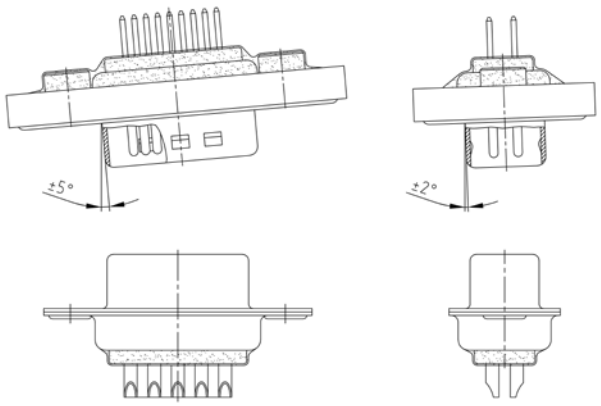
Back panel mounting



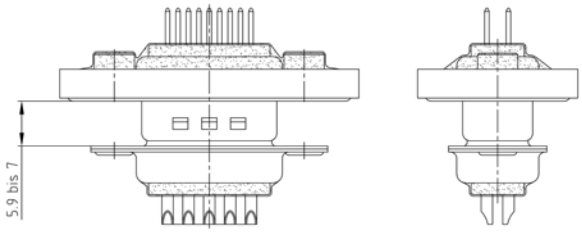
The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (standard & solid body)/.051"/1.3 mm (CONEC SlimCon) such that it does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

Mating conditions

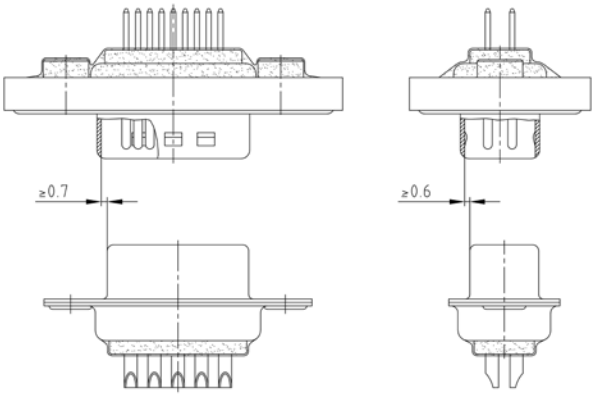
Max. tilt angle for connector mating



Range for safe contact

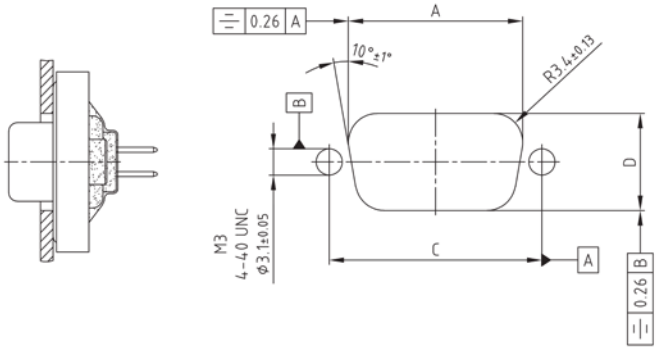


Lock-in range

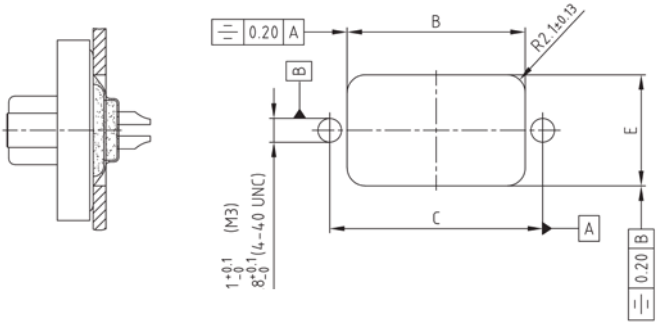


Panel cut-out

Back panel mounting



Front panel mounting

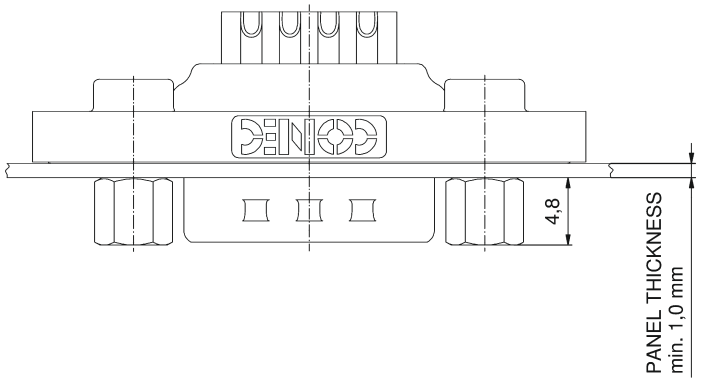


Shell size	A ±0.1	B ±0.1	C ±0.1	D ±0.1	E ±0.1
1	20.50	20.90	25.00	11.40	13.00
2	28.80	29.20	33.30	11.40	13.00
3	42.50	42.90	47.04	11.40	13.00
4	59.10	59.40	63.50	11.40	13.00
5	56.30	57.00	61.10	14.10	15.80

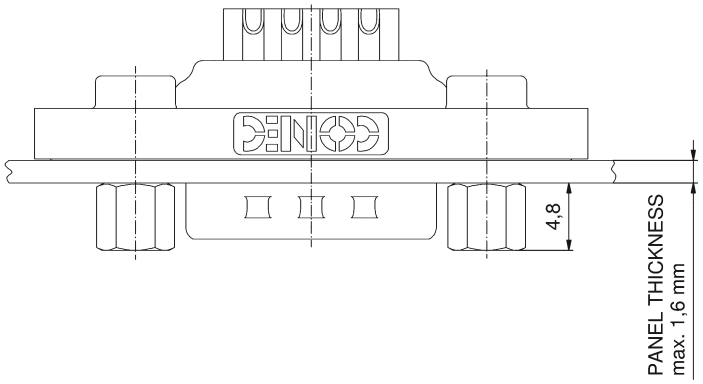
Technical specifications are subject to change without notice.

Assembly for series Solid Body and Standard
Rear Panel Mounting

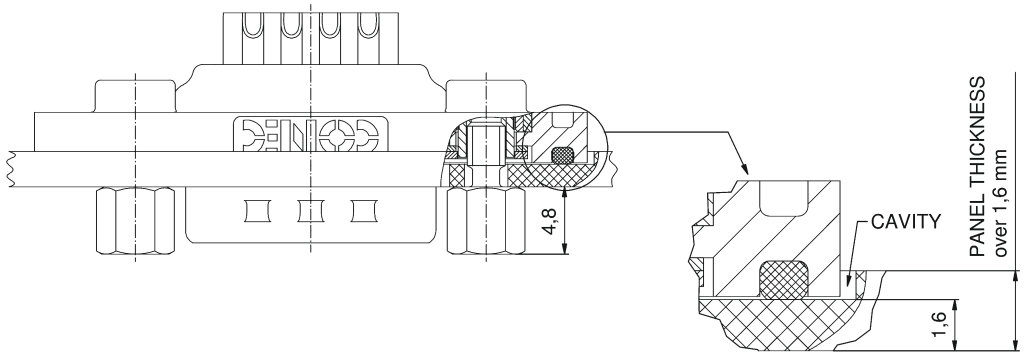
Panel thickness min. 1.0 mm



Panel thickness max. 1.6 mm



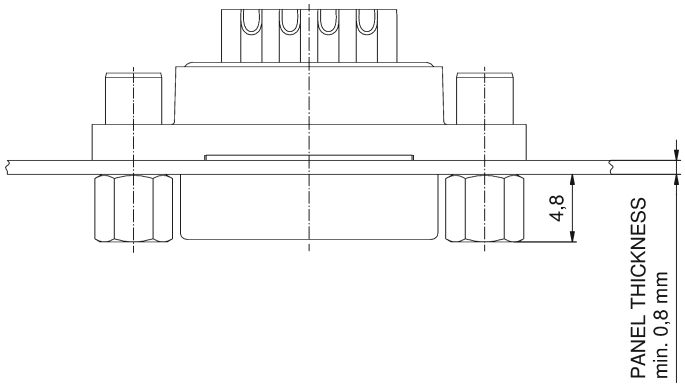
Panel thickness over 1.6 mm



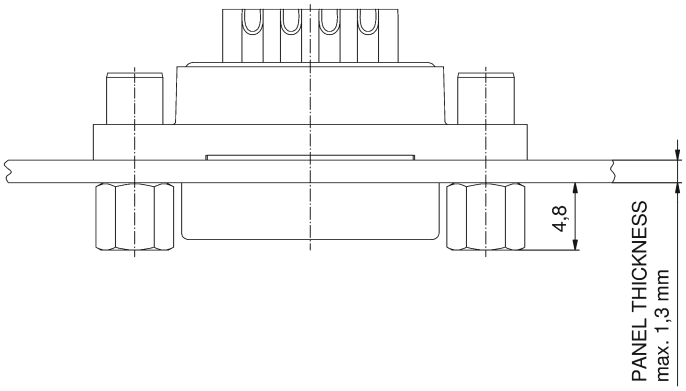
Technical specifications are subject to change without notice.

Assembly for series CONEC SlimCon
Rear Panel Mounting

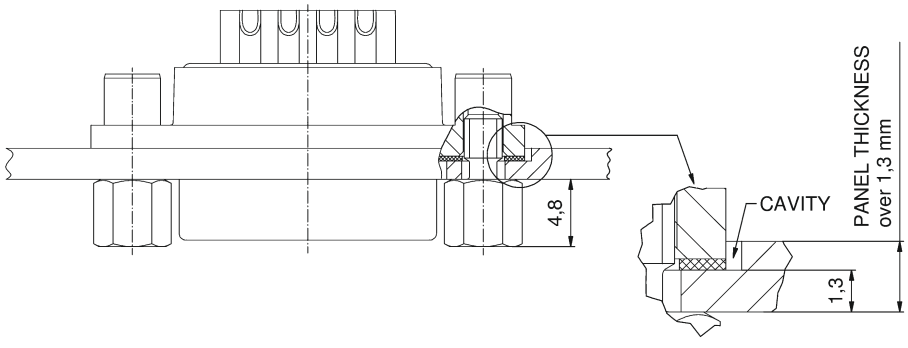
Panel thickness min. 0.8 mm



Panel thickness max. 1.3 mm



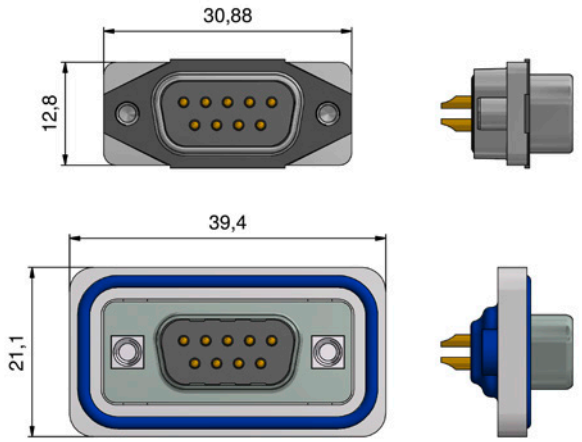
Panel thickness over 1.3 mm



Technical specifications are subject to change without notice.

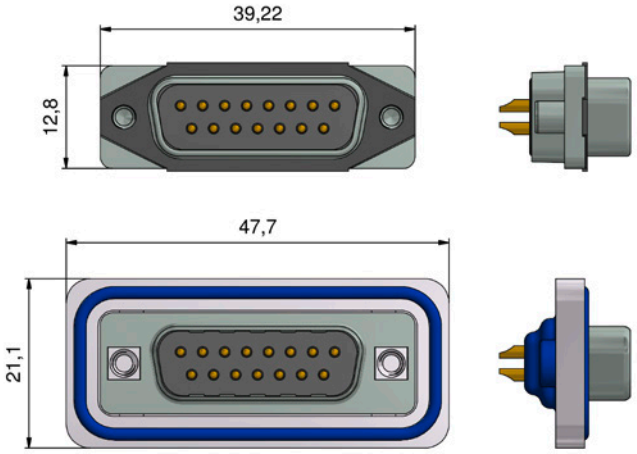
Size comparison
Series Standard/Solid Body versus series CONEC SlimCon

Size 1



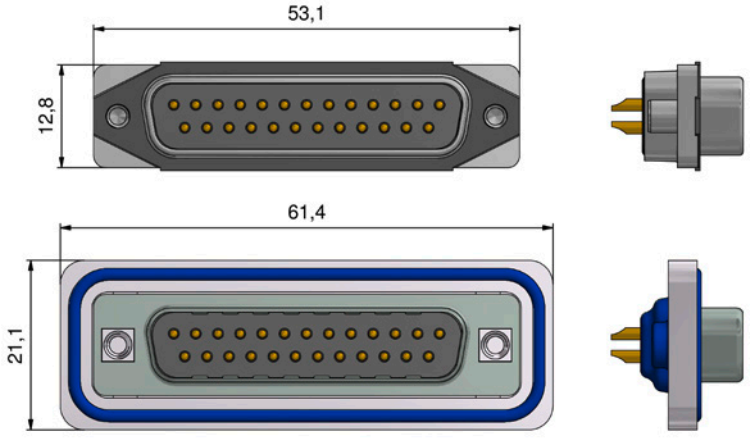
IP67 D-SUB CONEC SlimCon	IP67 D-SUB Standard/ Solid Body	Space-saving	Reduction of mounting space
30.88 mm	39.4 mm	8.3 mm / 13.5 %	52 %
12.8 mm	21.1 mm	8.3 mm / 39 %	

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 %	

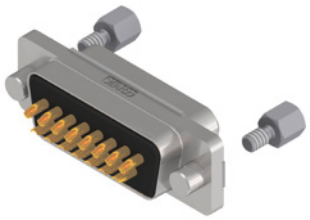
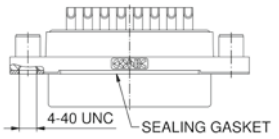
Technical specifications are subject to change without notice.

IP67 D-SUB Connectors
CONEC SlimCon

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

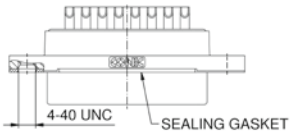
Solder cup
Precision machined contacts, AWG 20

4-40 UNC threaded insert

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

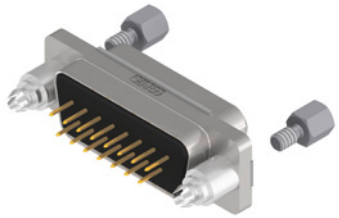
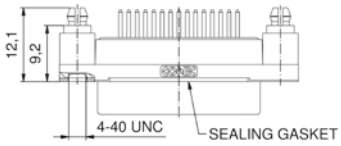
4-40 UNC threaded insert (for cable assembly and overmould)

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

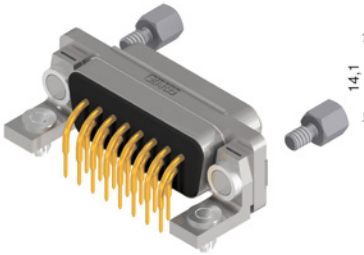
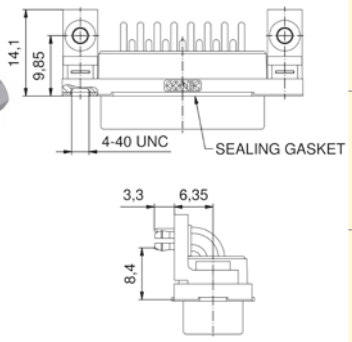
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

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

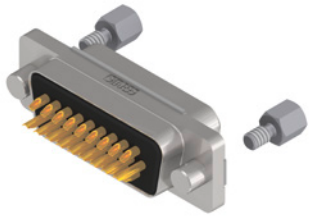
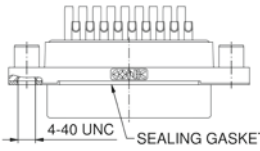
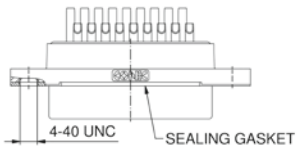



No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-006593	15-006543
15				15-006603	15-006553
25				15-006613	15-006563

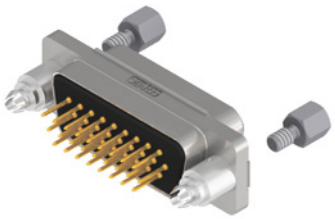
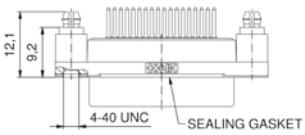
IP67 D-SUB High Density Connectors
CONEC SlimCon

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

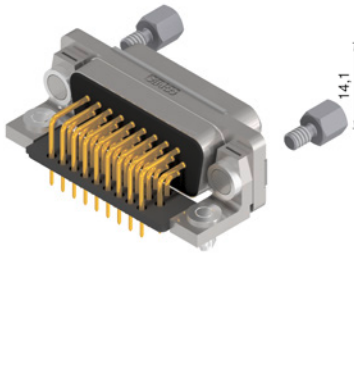
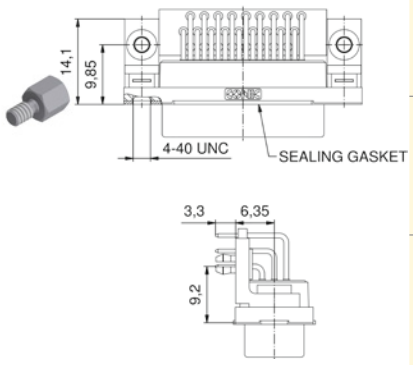
Solder cup
Precision machined contacts, AWG 22

4-40 UNC threaded insert	*No. of poles*	*Current rating [A]*	*Working voltage [V]*	*Quality class*	*Part No. Socket contact*	*Part No. Plug contact*
 	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007853	15-007823
	26				15-007863	15-007833
	44				15-007873	15-007843
4-40 UNC threaded insert (for cable assembly and overmould)						
 	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007673	15-007703
	26				15-007683	15-007713
	44				15-007693	15-007723

Solder pin, straight
Precision machined contacts

4-40 UNC threaded rear spacer clip for PCB 1.6 mm					*Part No. Socket contact*	*Part No. Plug contact*
 	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007553	15-007583
	26				15-007563	15-007593
	44				15-007573	15-007603

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

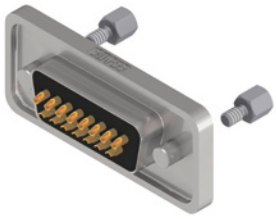
Clip for PCB 1.6 mm, 4-40 UNC threaded insert					*Part No. Socket contact*	*Part No. Plug contact*
 	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007613	15-007643
	26				15-007623	15-007653
	44				15-007633	15-007663

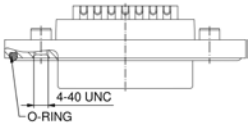
IP67 D-SUB Connectors
Standard Solid Body

Solder cup
Precision machined contacts, AWG 20

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

4-40 UNC threaded insert



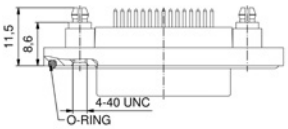


No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-000613	15-000573
15				15-000623	15-000583
25				15-000633	15-000593
37				15-000643	15-000603
50				15-002103	15-002093

Solder pin, straight
Precision machined contacts

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





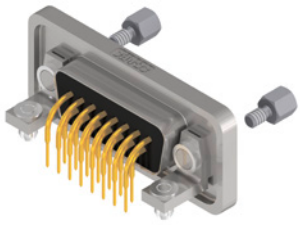
No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-000453	15-000413
15				15-000463	15-000423
25				15-000473	15-000433
37				15-000483	15-000443
50				15-002063	15-002053

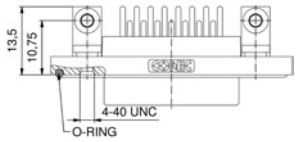
IP67 D-SUB Connectors
Standard Solid Body

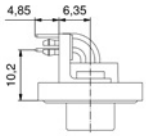
Solder pin, angled, .402"/10.2 mm
Precision machined contacts, metal bracket

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

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



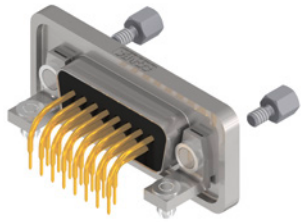


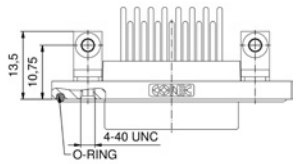


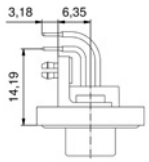
No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-000773	15-000733
15				15-000783	15-000743
25				15-000793	15-000753
37				15-000803	15-000763
50				15-002143	15-002133

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

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







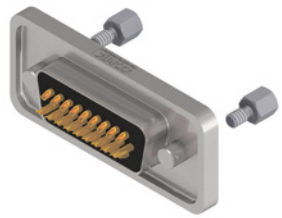
No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-000853	15-000813
15				15-000863	15-000823
25				15-000873	15-000833
37				15-000883	15-000843
50				15-002163	15-002153

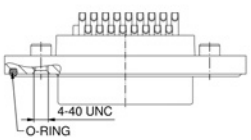
IP67 D-SUB Connectors
High Density Solid Body

Solder cup
Precision machined contacts, AWG 22

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

4-40 UNC threaded insert





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

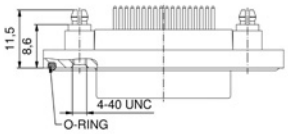
IP67 D-SUB Connectors
High Density Solid Body

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

Solder pin, straight
Precision machined contacts

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

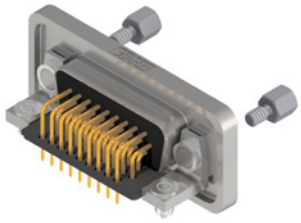


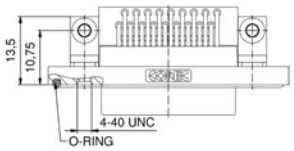


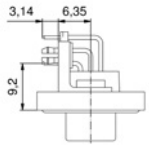
No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-000533	15-000493
26				15-000543	15-000503
44				15-000553	15-000513
62				15-000563	15-000523
78				15-002183	15-002073

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

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



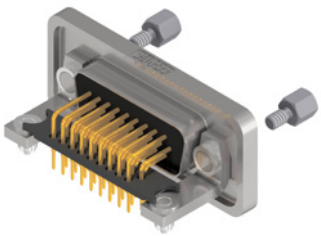


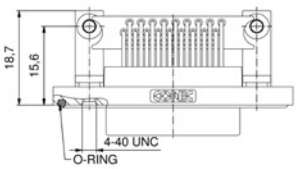


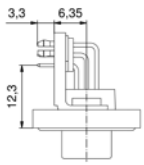
No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-002243	15-002193
26				15-002253	15-002203
44				15-002263	15-002213
62				15-002273	15-002223
78				15-002283	15-002233

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

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







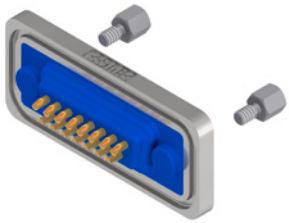
No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-000933	15-000893
26				15-000943	15-000903
44				15-000953	15-000913
62				15-000963	15-000923

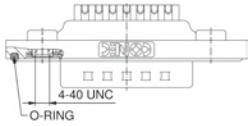
IP67 D-SUB Connectors
Standard

Solder cup
Precision machined contacts, AWG 20

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

4-40 UNC threaded insert

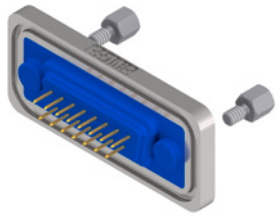


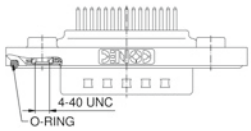


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09SAM99B30X	6STD09PAM99B30X
15					6STD15SAM99B30X	6STD15PAM99B30X
25					6STD25SAM99B30X	6STD25PAM99B30X
37					6STD37SAM99B30X	6STD37PAM99B30X
50					6STD50SAM99B30X	6STD50PAM99B30X

Solder pin, straight
Precision machined contacts

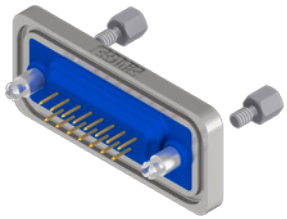
4-40 UNC threaded insert

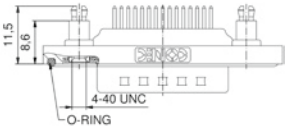




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09SAR99B30X	6STD09PAR99B30X
15					6STD15SAR99B30X	6STD15PAR99B30X
25					6STD25SAR99B30X	6STD25PAR99B30X
37					6STD37SAR99B30X	6STD37PAR99B30X
50					6STD50SAR99B30X	6STD50PAR99B30X

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





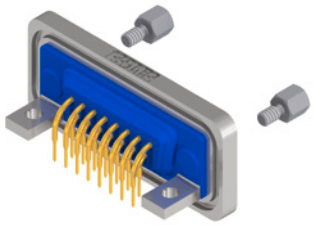
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09SAR99E20X	6STD09PAR99E20X
15					6STD15SAR99E20X	6STD15PAR99E20X
25					6STD25SAR99E20X	6STD25PAR99E20X
37					6STD37SAR99E20X	6STD37PAR99E20X
50					6STD50SAR99E20X	6STD50PAR99E20X

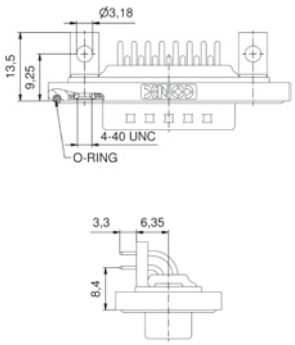
IP67 D-SUB Connectors
Standard

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

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

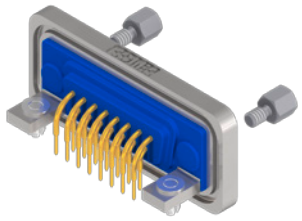
4-40 UNC threaded insert

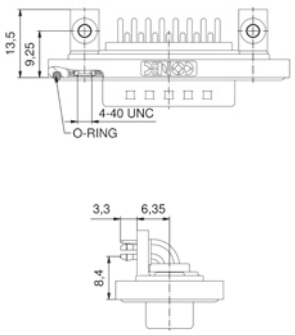




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09SAT99S20X	6STD09PAT99S20X
15					6STD15SAT99S20X	6STD15PAT99S20X
25					6STD25SAT99S20X	6STD25PAT99S20X
37					6STD37SAT99S20X	6STD37PAT99S20X
50					6STD50SAT99S20X	6STD50PAT99S20X

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





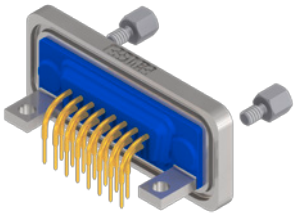
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09SAT99S40X	6STD09PAT99S40X
15					6STD15SAT99S40X	6STD15PAT99S40X
25					6STD25SAT99S40X	6STD25PAT99S40X
37					6STD37SAT99S40X	6STD37PAT99S40X
50					6STD50SAT99S40X	6STD50PAT99S40X

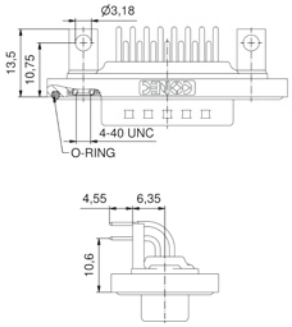
IP67 D-SUB Connectors
Standard

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

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

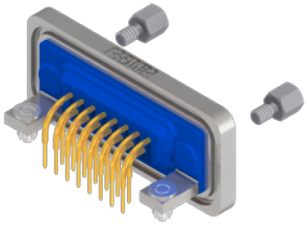
4-40 UNC threaded insert

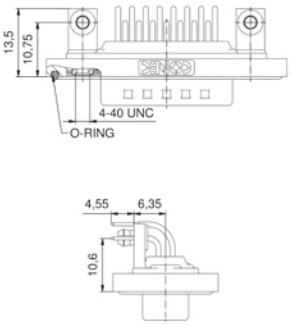




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09SAU99R20X	6STD09PAU99R20X
15					6STD15SAU99R20X	6STD15PAU99R20X
25					6STD25SAU99R20X	6STD25PAU99R20X
37					6STD37SAU99R20X	6STD37PAU99R20X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

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





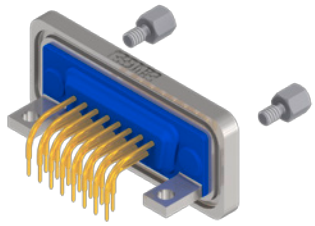
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09SAU99R40X	6STD09PAU99R40X
15					6STD15SAU99R40X	6STD15PAU99R40X
25					6STD25SAU99R40X	6STD25PAU99R40X
37					6STD37SAU99R40X	6STD37PAU99R40X
50					6STD50SAU99R40X	6STD50PAU99R40X

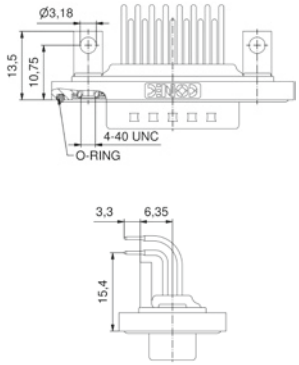
IP67 D-SUB Connectors
Standard

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

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

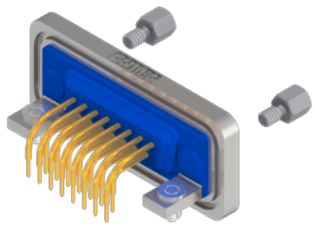
4-40 UNC threaded insert

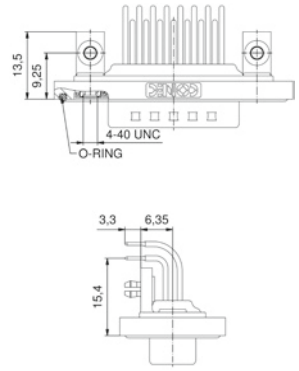




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09SAZ99S20X	6STD09PAZ99S20X
15					6STD15SAZ99S20X	6STD15PAZ99S20X
25					6STD25SAZ99S20X	6STD25PAZ99S20X
37					6STD37SAZ99S20X	6STD37PAZ99S20X

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





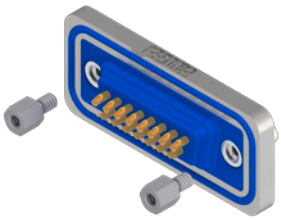
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09SAZ99S40X	6STD09PAZ99S40X
15					6STD15SAZ99S40X	6STD15PAZ99S40X
25					6STD25SAZ99S40X	6STD25PAZ99S40X
37					6STD37SAZ99S40X	6STD37PAZ99S40X

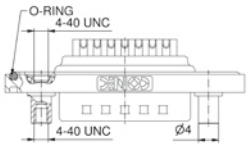
IP67 D-SUB Connectors
Standard

Solder cup, precision machined contacts
Front panel mounting, AWG 20

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

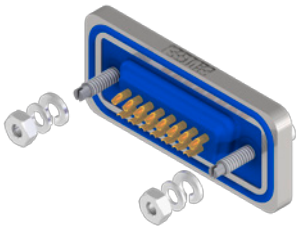
4-40 UNC Front spacer

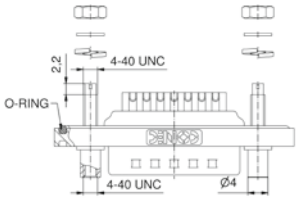




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09SAM99B50X	6STD09PAM99B50X
15					6STD15SAM99B50X	6STD15PAM99B50X
25					6STD25SAM99B50X	6STD25PAM99B50X
37					6STD37SAM99B50X	6STD37PAM99B50X
50					6STD50SAM99B50X	6STD50PAM99B50X

4-40 UNC Front spacer and rear mounting stud





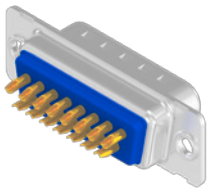
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09SAM99B70X	6STD09PAM99B70X
15					6STD15SAM99B70X	6STD15PAM99B70X
25					6STD25SAM99B70X	6STD25PAM99B70X
37					6STD37SAM99B70X	6STD37PAM99B70X
50					6STD50SAM99B70X	6STD50PAM99B70X

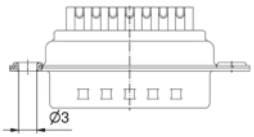
IP67 D-SUB Connectors
Standard

Solder cup, precision machined contacts
Hood Assembly, AWG 20

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

Through-hole Ø 3 mm





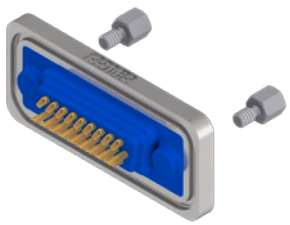
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	4STD09SAM99A10X	4STD09PAM99A10X
15					4STD15SAM99A10X	4STD15PAM99A10X
25					4STD25SAM99A10X	4STD25PAM99A10X
37					4STD37SAM99A10X	4STD37PAM99A10X
50					4STD50SAM99A10X	4STD50PAM99A10X

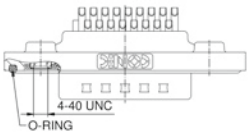
IP67 D-SUB Connectors
High Density

Solder cup
Precision machined contacts, AWG 22

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

4-40 UNC threaded insert





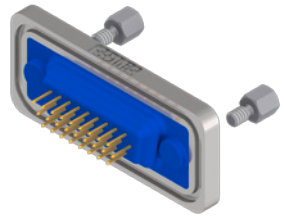
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAM99B30X	6HDD15PAM99B30X
26					6HDD26SAM99B30X	6HDD26PAM99B30X
44					6HDD44SAM99B30X	6HDD44PAM99B30X
62					6HDD62SAM99B30X	6HDD62PAM99B30X
78					6HDD78SAM99B30X	6HDD78PAM99B30X

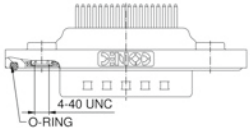
IP67 D-SUB Connectors
High Density

Solder pin, straight
Precision machined contacts

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

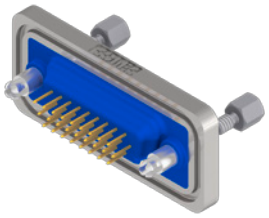
4-40 UNC threaded insert

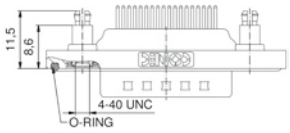




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAR99B30X	6HDD15PAR99B30X
26					6HDD26SAR99B30X	6HDD26PAR99B30X
44					6HDD44SAR99B30X	6HDD44PAR99B30X
62					6HDD62SAR99B30X	6HDD62PAR99B30X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

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

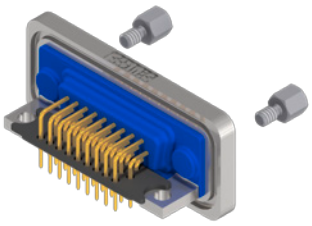


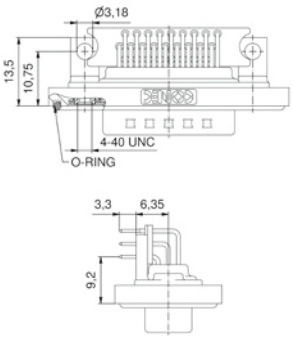


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAR99E20X	6HDD15PAR99E20X
26					6HDD26SAR99E20X	6HDD26PAR99E20X
44					6HDD44SAR99E20X	6HDD44PAR99E20X
62					6HDD62SAR99E20X	6HDD62PAR99E20X
78					6HDD78SAR99E20X	6HDD78PAR99E20X

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

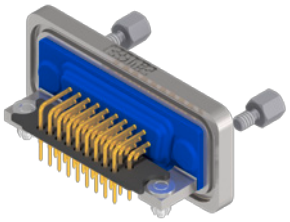
4-40 UNC threaded insert

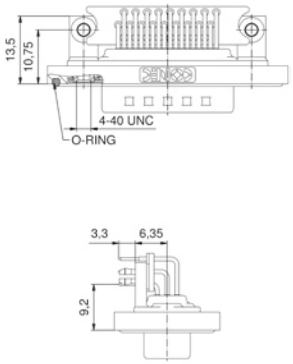




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAY99R20X	6HDD15PAY99R20X
26					6HDD26SAY99R20X	6HDD26PAY99R20X
44					6HDD44SAY99R20X	6HDD44PAY99R20X
62					6HDD62SAY99R20X	6HDD62PAY99R20X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

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





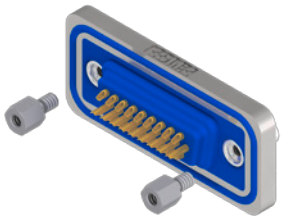
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAY99R40X	6HDD15PAY99R40X
26					6HDD26SAY99R40X	6HDD26PAY99R40X
44					6HDD44SAY99R40X	6HDD44PAY99R40X
62					6HDD62SAY99R40X	6HDD62PAY99R40X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

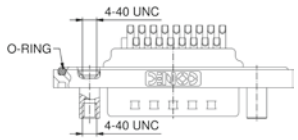
IP67 D-SUB Connectors
High Density

Solder cup, precision machined contacts
Front panel mounting, AWG 22

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

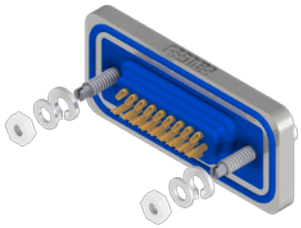
4-40 UNC front spacer

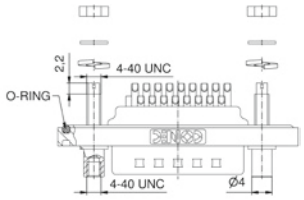




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAM99B50X	6HDD15PAM99B50X
26					6HDD26SAM99B50X	6HDD26PAM99B50X
44					6HDD44SAM99B50X	6HDD44PAM99B50X
62					6HDD62SAM99B50X	6HDD62PAM99B50X
78					6HDD78SAM99B50X	6HDD78PAM99B50X

4-40 UNC Front spacer and rear mounting stud





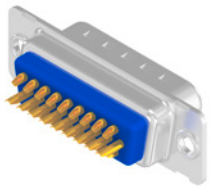
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAM99B70X	6HDD15PAM99B70X
26					6HDD26SAM99B70X	6HDD26PAM99B70X
44					6HDD44SAM99B70X	6HDD44PAM99B70X
62					6HDD62SAM99B70X	6HDD62PAM99B70X
78					6HDD78SAM99B70X	6HDD78PAM99B70X

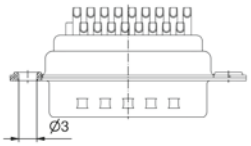
IP67 D-SUB Connectors
High Density

Solder cup, precision machined contacts
Hood Assembly, AWG 22

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

Through-hole Ø 3 mm





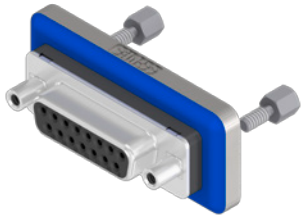
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	4HDD15SAM99A10X	4HDD15PAM99A10X
26					4HDD26SAM99A10X	4HDD26PAM99A10X
44					4HDD44SAM99A10X	4HDD44PAM99A10X
62					4HDD62SAM99A10X	4HDD62PAM99A10X
78					4HDD78SAM99A10X	4HDD78PAM99A10X

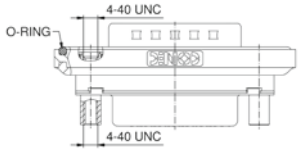
IP67 D-SUB Connectors
Standard

Interface adapter, connector saver
Plug connector - socket connector

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

4-40 UNC threaded rear spacer

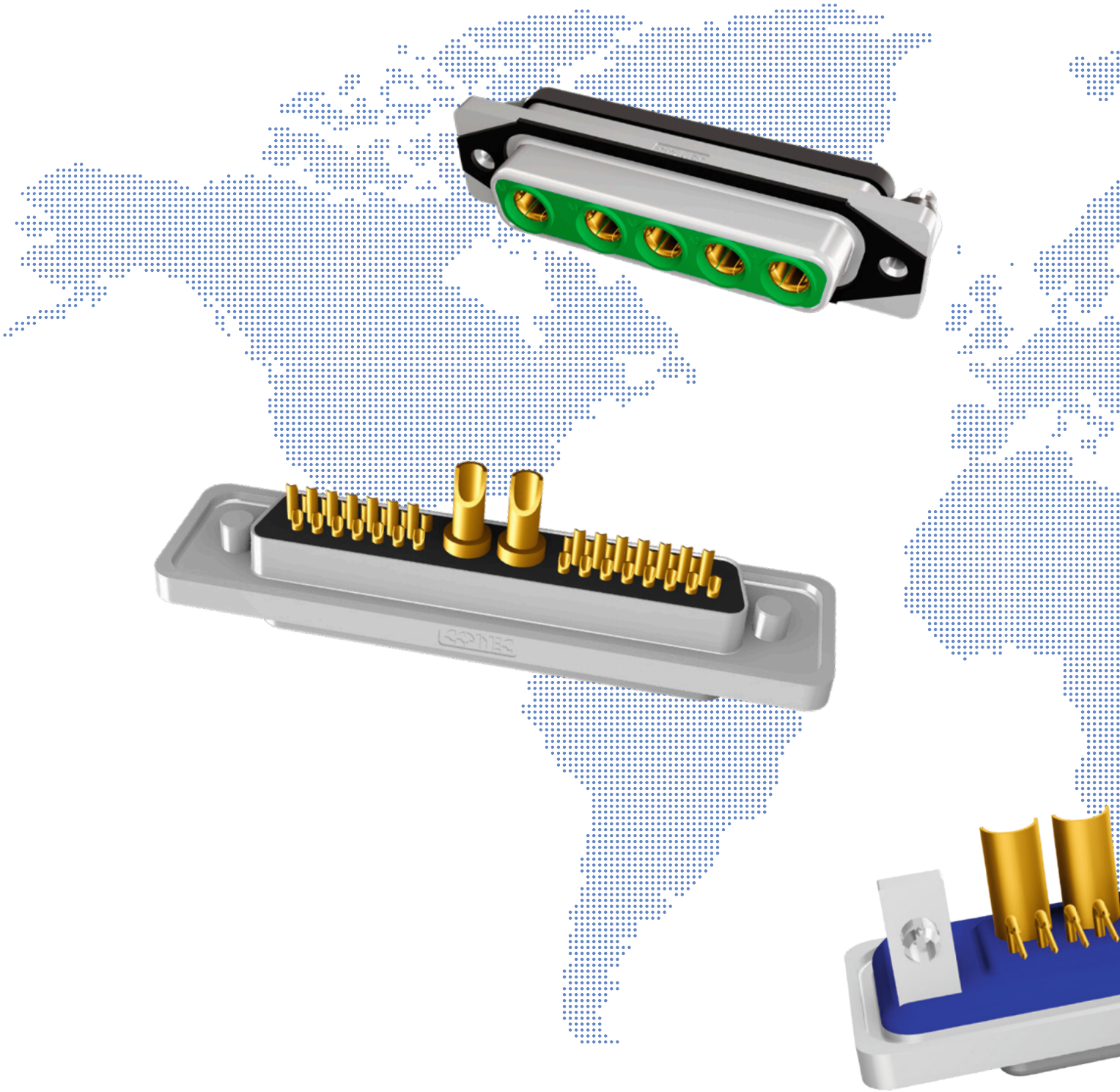




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
09	7.5 (UL) / 5 (CSA, VDE)	125	E202784	3	6STD09AAA99B90X
15					6STD15AAA99B90X
25					6STD25AAA99B90X
37					6STD37AAA99B90X

Section 7

IP67 Combination D-SUB Connectors

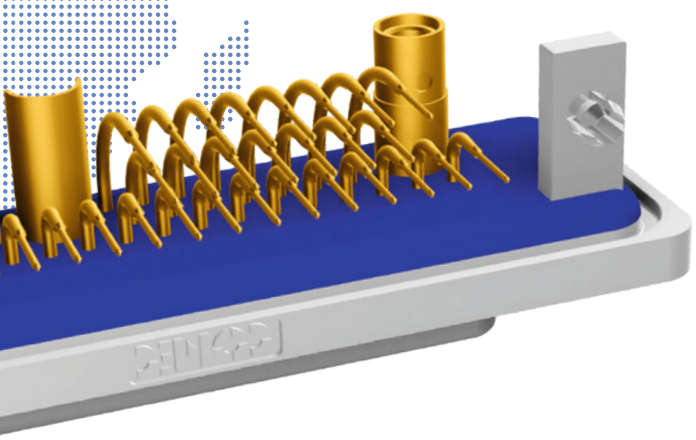














Part Number Creator

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

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

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

Contact type
P = Plug connector
S = Socket connector

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

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

Termination for high power or coaxial contacts

Quality class 3 / Quality class 1
61 / 41 = Solder cup 10 A
62 / 42 = Solder cup 20 A
68 / 48 = Solder pin – Straight 20 A, D= .077" 1.95 mm
69 / 49 = Solder pin – Straight 20 A, D= .102" 2.60 mm
70 / 50 = Solder pin – Straight 20 A, D= .112" 2.85 mm
71 / 51 = Solder pin – Straight 30 A, D= .125" 3.18 mm
72 / 52 = Solder pin – Straight 40 A, D= .148" 3.75 mm
59 / 55 = Solder pin – Angled 15 A
73 / 56 = Solder pin – Angled 20 A
74 / 57 = Solder pin – Angled 30 A
75 / 58 = Solder pin – Angled 40 A
77 / 60 = Solder pin – Angled 40 A

Quality class 3 / Quality class 1
85 / 65 = Solder pin – Angled 30 A
81 / 66 = Solder pin – Angled 20 A
82 / 67 = Solder pin – Angled 30 A
F9 / H4 = Cable connection straight 75 Ω
G1 / H5 = Cable connection straight 75 Ω
G2 / H6 = Cable connection straight50 Ω
G3 / H7 = Cable connection straight 50 Ω
G4 / H8 = Cable connection straight 50 Ω
G5 / H9 = Cable connection straight 50 Ω
G6 / K1 = Cable connection straight 50 Ω
G7 / 76 = 3 solder pins straight 50 Ω
G8 / 86 = 3 solder pins straight 75 Ω

Quality class 3 / Quality class 1
G9 / 78 = 3 solder pins angled 50 Ω
H1 / 79 = 3 solder pins angled 50 Ω
H2 / 88 = 3 solder pins angled 75 Ω
H3 / 89 = 3 solder pins angled 75 Ω
R1 = Screw Crimp 10 A
R2 = Screw Crimp 20A
R3 = Screw Crimp 30A
R4 = Screw Crimp 40A

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

OX = Standard

IP67 Combination D-SUB Connectors

Product specification
Standard

Basic material	Connectors with		
	Signal contacts	Coaxial contacts	High power contacts
Contact	Copper alloy		
Contact plating	Flash gold over nickel		
Insulator (Connector)	PBT GF UL 94 V-0 (Connectors)		
Insulator (Contacts)		PTFE/PBTP/PI (Contacts)	
Shell	Brass tin plated (Stainless steel on request)		
Retaining clip		Copper alloy	
Technical Data			
Test voltage	1000 V, 50 Hz, 1 min.	750 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.
Working voltage	250 V AC/DC 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

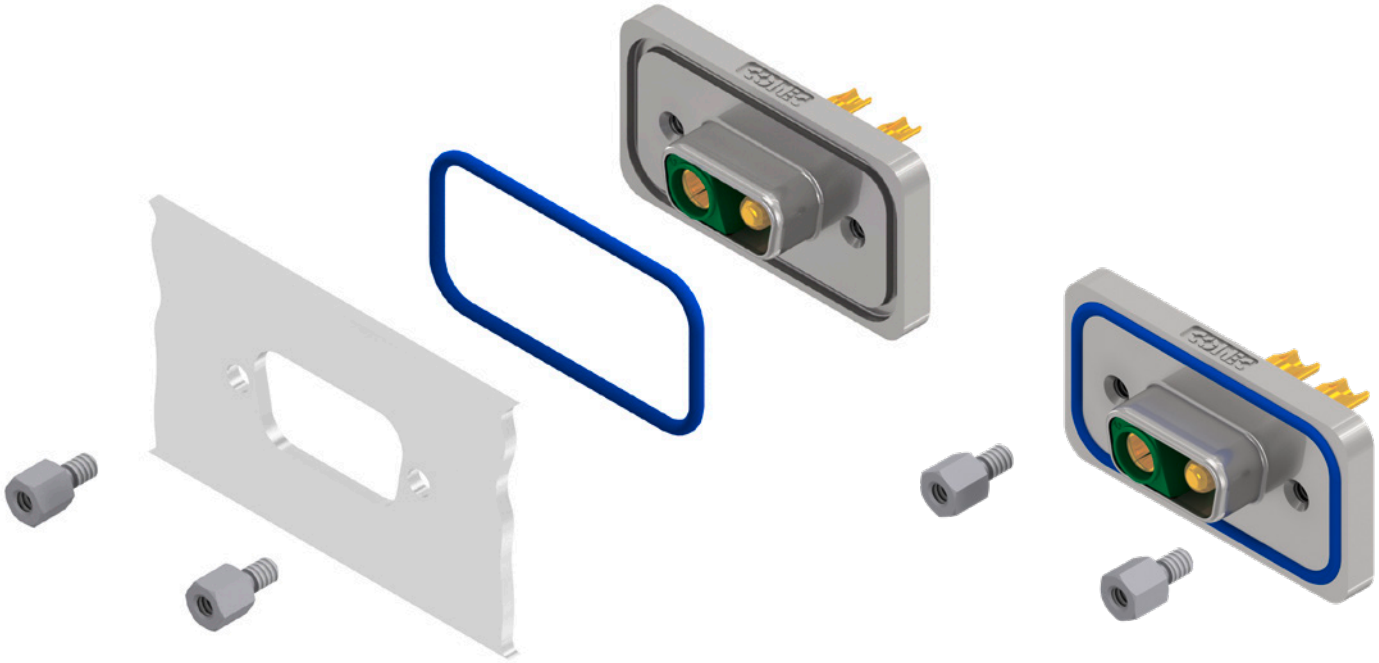
Technical specifications are subject to change without notice

Panel mounting

Front panel mounting



Back panel mounting

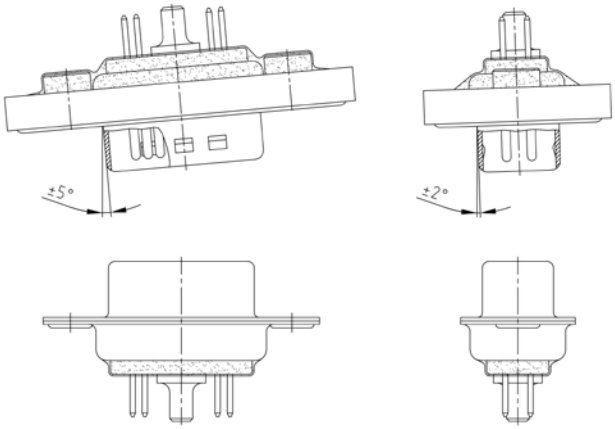


The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (standard & solid body)/.051"/1.3 mm (CONEC SlimCon) such that it does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

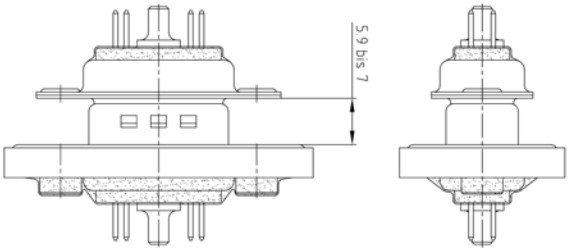
Technical specifications are subject to change without notice.

Mating conditions

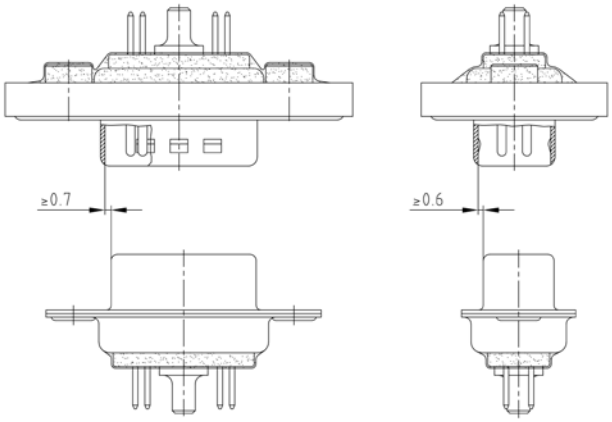
Max. tilt angle for connector mating



Range for safe contact

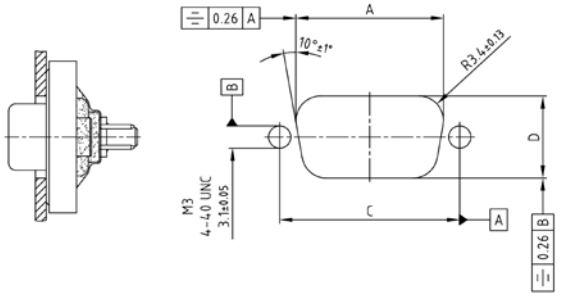


Lock-in range

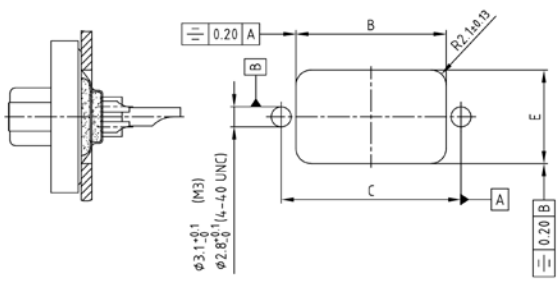


Panel cut-out

Back panel mounting



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

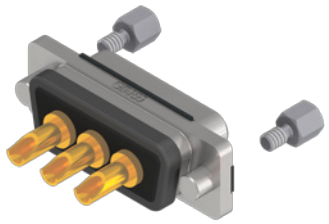
Technical specifications are subject to change without notice.

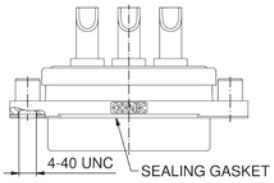
IP67 Combination D-SUB Connectors
CONEC SlimCon with high power contacts 20 A

Solder cup straight
Precision machined contacts, AWG 12-14

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

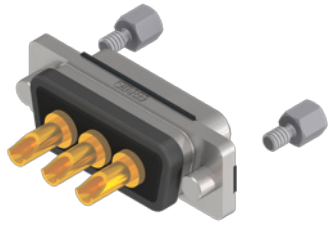
4-40 UNC threaded insert

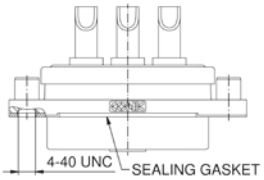




No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	250	3	15-007953	15-008083
5W5				15-007963	15-008093

4-40 UNC threaded insert, coded version





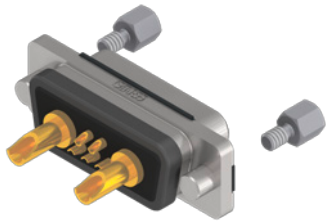
No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	250	3	15-007933	
3W3C				15-007943	15-008073

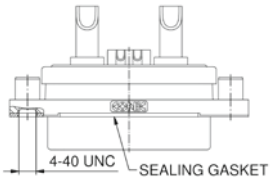
IP67 Combination D-SUB Connectors
CONEC SlimCon with signal contacts & high power contacts 20 A

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

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

4-40 UNC threaded insert





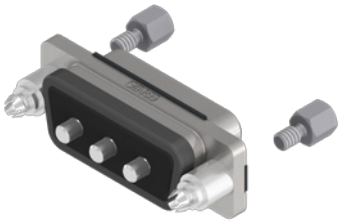
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
7W2	75 (UL) / 5 (CSA VDE)	20	250	3	15-007973	15-008103

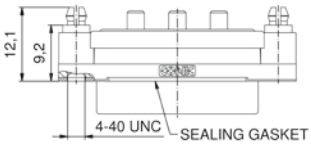
IP67 Combination D-SUB Connectors
CONEC SlimCon with high power contacts 20 A

Solder pin straight
Precision machined contacts

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

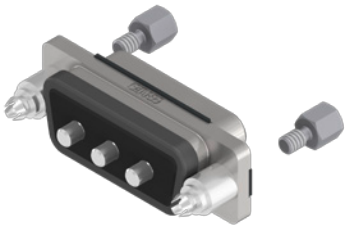
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm

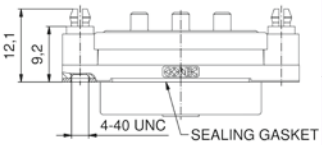




No. of poles	Current rating high power contacts [A]	Betriebsspannung [V]	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	250	3	15-007083	15-007213
5W5				15-007093	15-007223

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





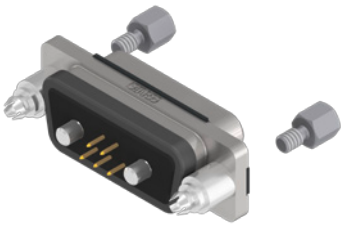
No. of poles	Current rating high power contacts [A]	Betriebsspannung [V]	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	250	3	15-007063	
3W3C				15-007073	15-007203

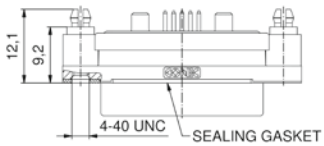
IP67 Combination D-SUB Connectors
CONEC SlimCon with signal contacts & high power contacts 20 A

Solder pin straight
Precision machined contacts

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

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





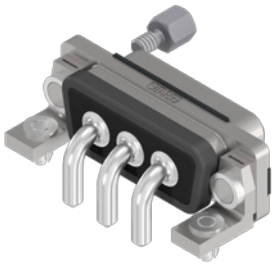
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
7W2	7,5 (UL) / 5 (CSA, VDE)	20	250	3	15-007103	15-007233

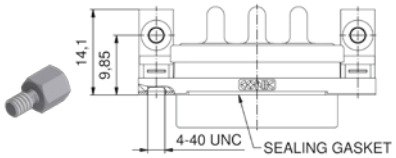
IP67 Combination D-SUB Connectors
CONEC SlimCon with high power contacts 20 A

Solder pin angled
Precision machined contacts, metal bracket

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

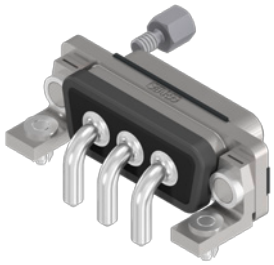
Mounting bracket PCB clip

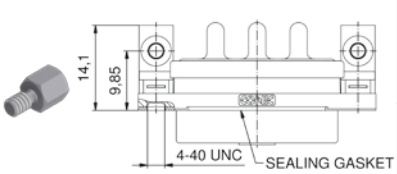




No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	250	3	15-007353	15-007483
5W5				15-007363	15-007493

Mounting bracket PCB clip, coded version





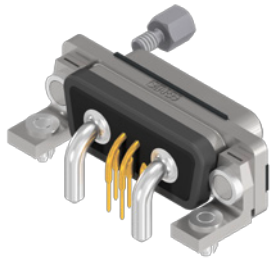
No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	250	3	15-007333	
3W3C				15-007343	15-007483

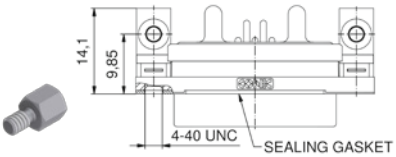
IP67 Combination D-SUB Connectors
CONEC SlimCon with signal contacts & high power contacts 20 A

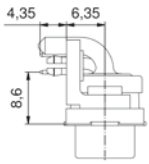
Solder pin angled, .338"/8.6 mm
Precision machined contacts, metal bracket

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

Mounting bracket PCB clip







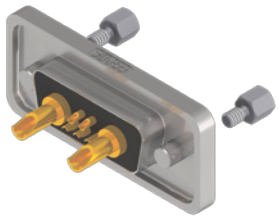
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
7W2	7.5 (UL) / 5 (CSA VDE)	20	250	3	15-007373	15-007503

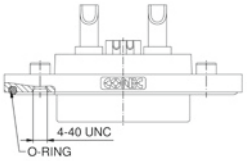
IP67 Combination D-SUB Connectors
Solid Body with signal & high power contacts 20 A

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

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

4-40 UNC threaded insert

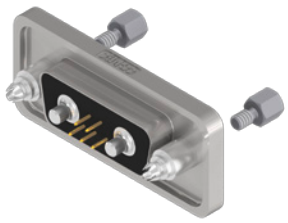


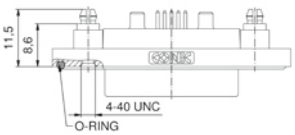


No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	20	250	3	15-005063	15-005193
7W2					15-001103	15-004643
11W1					15-005073	15-005203
9W4					15-005083	15-005213
13W3					15-004563	15-004553
17W2					15-004453	15-004543
21W1					15-005093	15-005223
13W6					15-005103	15-005233
17W5					15-005113	15-005243
21WA4					15-005123	15-005253
25W3					15-005133	15-005263
27W2					15-005143	15-005273
24W7					15-005153	15-005283
36W4					15-005163	15-005293
43W2					15-005173	15-005303
47W1					15-005183	15-005313

Solder pin straight
Precision machined contacts

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





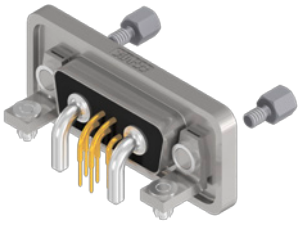
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	20	250	3	15-005323	15-005473
7W2					15-001823	15-001863
11W1					15-005333	15-005483
9W4					15-005343	15-005493
13W3					15-005353	15-005503
17W2					15-005363	15-005513
21W1					15-005373	15-005523
13W6					15-005383	15-005533
17W5					15-005393	15-005543
21WA4					15-005403	15-005553
25W3					15-005413	15-005563
27W2					15-005423	15-005573
24W7					15-005433	15-005583
36W4					15-005443	15-005593
43W2					15-005453	15-005603
47W1					15-005463	15-005613

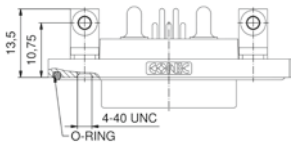
IP67 Combination D-SUB Connectors
Solid Body with signal & high power contacts 20 A

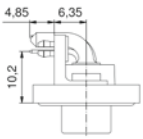
Solder pin angled, .402"/10.2 mm
Precision machined contacts, metal bracket

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

Mounting bracket PCB clip







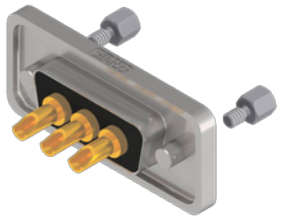
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA VDE)	20	250	3	15-005623	15-005763
7W2					15-001463	15-001503
11W1					15-005633	15-005773
9W4					15-005643	15-005783
13W3					15-005653	15-005793
17W2					15-005663	15-002323
21W1					15-005673	15-005803
13W6					15-005683	15-005813
17W5					15-005693	15-005823
21WA4					15-005703	15-005833
25W3					15-005713	15-002333
27W2					15-005723	15-005843
24W7					15-005733	15-005853
36W4					15-005743	15-002293
43W2					15-004593	15-005863
47W1					15-005753	15-005873

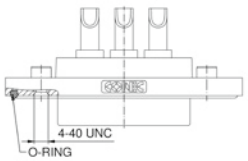
IP67 Combination D-SUB Connectors
Solid Body with high power contacts 20 A

Solder cup straight
Precision machined contacts, AWG 12-14

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

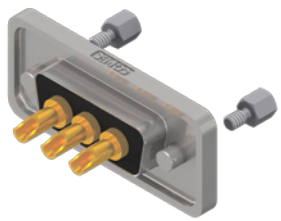
4-40 UNC threaded insert

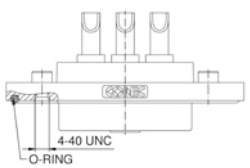




No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	250	3	15-001083	15-001123
5W5				15-001093	15-001133
8W8				15-001613	15-001653

4-40 UNC threaded insert, coded version



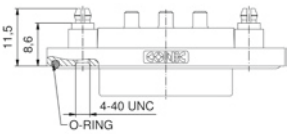
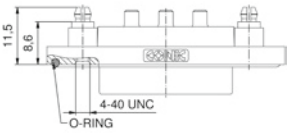


No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	20	250	3	15-001063	
3W3C				15-001073	15-001113

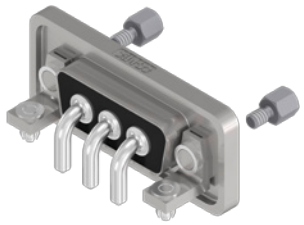
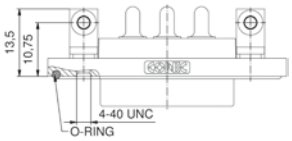
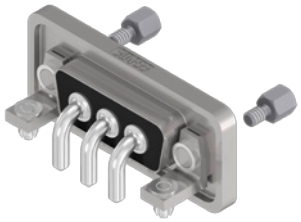
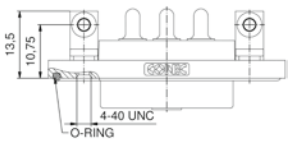
IP67 Combination D-SUB Connectors
Solid Body with high power contacts 20 A

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

Solder pin straight
Precision machined contacts

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

Solder pin angled
Precision machined contacts, metal bracket

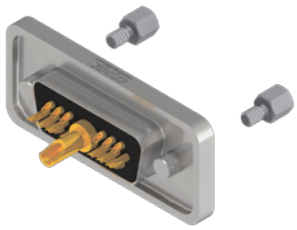
Mounting bracket PCB clip	No. of poles	Current rating high power contacts [A]	Betriebsspannung [V]	Quality class	Part No. Socket contact	Part No. Plug contact
 	3W3	20	250	3	15-001443	15-001483
	5W5				15-001453	15-001493
	8W8				15-001963	15-001993
Mounting bracket PCB clip						
 	2W2C	20	250	3	15-001423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

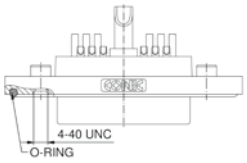
IP67 Combination D-SUB Connectors
Solid Body with signal & high power contacts 20 A

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

Solder cup straight
Precision machined contacts, AWG 12-14

4-40 UNC threaded insert



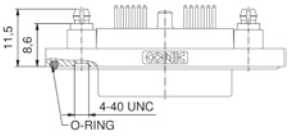


No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	20	60	3	15-005893	15-005923
19W1					15-005903	15-005933
45W2					15-005913	15-005943

Solder pin straight
Precision machined contacts

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

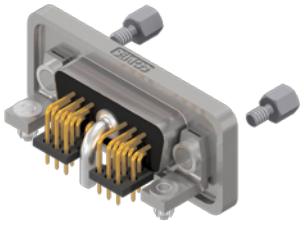


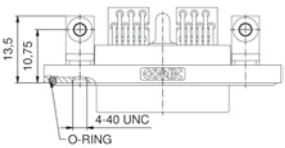


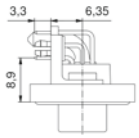
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	20	60	3	15-005953	15-005983
19W1					15-005963	15-005993
45W2					15-005973	15-006003

Solder pin angled
Precision machined contacts, metal bracket

Mounting bracket PCB clip





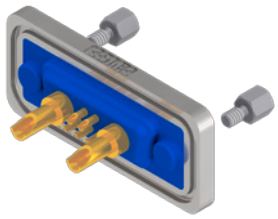


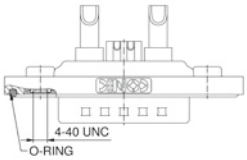
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2.5 (CSA)	20	60	3	15-006013	15-006043
19W1					15-006023	15-006053
45W2					15-006033	15-006063

IP67 Combination D-SUB Connectors
With signal & high power contacts 10 A

Solder cup
Precision machined contacts, AWG 20

4-40 UNC threaded insert





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

No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	10	250	E202784	3	6005W1SAM**61**B30X	6005W1PAM**61**B30X
7W2					3	6007W2SAM**61**B30X	6007W2PAM**61**B30X
11W1					3	6011W1SAM**61**B30X	6011W1PAM**61**B30X
9W4					3	6009W4SAM**61**B30X	6009W4PAM**61**B30X
13W3					3	6013W3SAM**61**B30X	6013W3PAM**61**B30X
17W2					3	6017W2SAM**61**B30X	6017W2PAM**61**B30X
21W1					3	6021W1SAM**61**B30X	6021W1PAM**61**B30X
13W6					3	6013W6SAM**61**B30X	6013W6PAM**61**B30X
17W5					3	6017W5SAM**61**B30X	6017W5PAM**61**B30X
21WA4					3	621WA4SAM**61**B30X	621WA4PAM**61**B30X
25W3					3	6025W3SAM**61**B30X	6025W3PAM**61**B30X
27W2					3	6027W2SAM**61**B30X	6027W2PAM**61**B30X
24W7					3	6024W7SAM**61**B30X	6024W7PAM**61**B30X
36W4					3	6036W4SAM**61**B30X	6036W4PAM**61**B30X
43W2					3	6043W2SAM**61**B30X	6043W2PAM**61**B30X
47W1					3	6047W1SAM**61**B30X	6047W1PAM**61**B30X

For other Power contacts select code from spread sheet

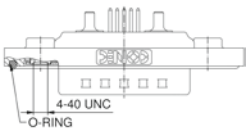
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

IP67 Combination D-SUB Connectors
With signal & high power contacts 20 A

Solder pin straight
Precision machined contacts

4-40 UNC threaded insert





Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	20	250	E202784	3	6005W1SAR**68**B30X	6005W1PAR**68**B30X
7W2					3	6007W2SAR**68**B30X	6007W2PAR**68**B30X
11W1					3	6011W1SAR**68**B30X	6011W1PAR**68**B30X
9W4					3	6009W4SAR**68**B30X	6009W4PAR**68**B30X
13W3					3	6013W3SAR**68**B30X	6013W3PAR**68**B30X
17W2					3	6017W2SAR**68**B30X	6017W2PAR**68**B30X
21W1					3	6021W1SAR**68**B30X	6021W1PAR**68**B30X
13W6					3	6013W6SAR**68**B30X	6013W6PAR**68**B30X
17W5					3	6017W5SAR**68**B30X	6017W5PAR**68**B30X
21WA4					3	621WA4SAR**68**B30X	621WA4PAR**68**B30X
25W3					3	6025W3SAR**68**B30X	6025W3PAR**68**B30X
27W2					3	6027W2SAR**68**B30X	6027W2PAR**68**B30X
24W7					3	6024W7SAR**68**B30X	6024W7PAR**68**B30X
36W4					3	6036W4SAR**68**B30X	6036W4PAR**68**B30X
43W2					3	6043W2SAR**68**B30X	6043W2PAR**68**B30X
47W1					3	6047W1SAR**68**B30X	6047W1PAR**68**B30X

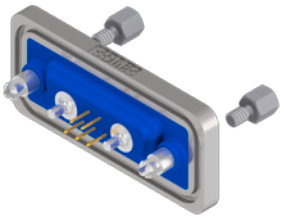
For other Power contacts select code from spread sheet

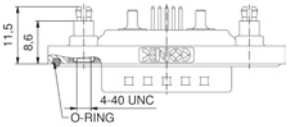
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

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

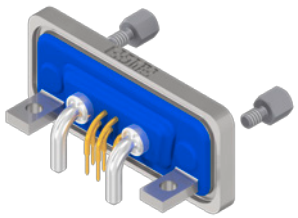
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

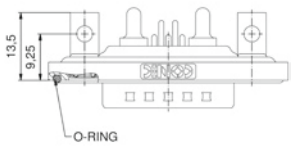
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	20	250	E202784	3	6005W1SAR68E20X	6005W1PAR68E20X
7W2					3	6007W2SAR68E20X	6007W2PAR68E20X
11W1					3	6011W1SAR68E20X	6011W1PAR68E20X
9W4					3	6009W4SAR68E20X	6009W4PAR68E20X
13W3					3	6013W3SAR68E20X	6013W3PAR68E20X
17W2					3	6017W2SAR68E20X	6017W2PAR68E20X
21W1					3	6021W1SAR68E20X	6021W1PAR68E20X
13W6					3	6013W6SAR68E20X	6013W6PAR68E20X
17W5					3	6017W5SAR68E20X	6017W5PAR68E20X
21WA4					3	621WA4SAR68E20X	621WA4PAR68E20X
25W3					3	6025W3SAR68E20X	6025W3PAR68E20X
27W2					3	6027W2SAR68E20X	6027W2PAR68E20X
24W7					3	6024W7SAR68E20X	6024W7PAR68E20X
36W4					3	6036W4SAR68E20X	6036W4PAR68E20X
43W2					3	6043W2SAR68E20X	6043W2PAR68E20X
47W1					3	6047W1SAR68E20X	6047W1PAR68E20X

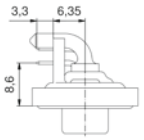
IP67 Combination D-SUB Connectors
With signal & high power contacts 15 A

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

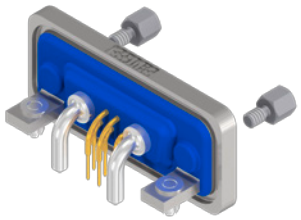
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

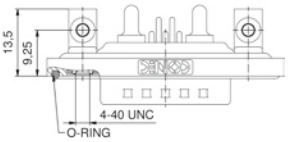
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	15	250	E202784	3	6005W1SAT59S20X	6005W1PAT59S20X
7W2					3	6007W2SAT59S20X	6007W2PAT59S20X
11W1					3	6011W1SAT59S20X	6011W1PAT59S20X
9W4					3	6009W4SAT59S20X	6009W4PAT59S20X
13W3					3	6013W3SAT59S20X	6013W3PAT59S20X
17W2					3	6017W2SAT59S20X	6017W2PAT59S20X
21W1					3	6021W1SAT59S20X	6021W1PAT59S20X
13W6					3	6013W6SAT59S20X	6013W6PAT59S20X
17W5					3	6017W5SAT59S20X	6017W5PAT59S20X
21WA4					3	621WA4SAT59S20X	621WA4PAT59S20X
25W3					3	6025W3SAT59S20X	6025W3PAT59S20X
27W2					3	6027W2SAT59S20X	6027W2PAT59S20X
24W7					3	6024W7SAT81S20X	6024W7PAT81S20X
36W4					3	6036W4SAT81S20X	6036W4PAT81S20X
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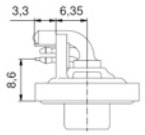
IP67 Combination D-SUB Connectors
With signal & high power contacts 15 A

Solder pin angled, .338"/8.6 mm
Precision machined contacts, metal bracket with PCB clip

Clip for PCB 1.6 mm, 4-40 UNC threaded insert







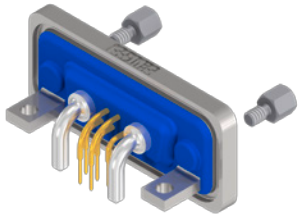
For other Power contacts select code from spread sheet			
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

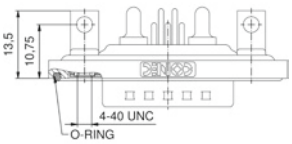
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

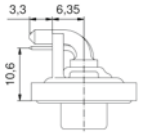
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	15	250	E202784	3	6005W1SAT59S40X	6005W1PAT59S40X
7W2					3	6007W2SAT59S40X	6007W2PAT59S40X
11W1					3	6011W1SAT59S40X	6011W1PAT59S40X
9W4					3	6009W4SAT59S40X	6009W4PAT59S40X
13W3					3	6013W3SAT59S40X	6013W3PAT59S40X
17W2					3	6017W2SAT59S40X	6017W2PAT59S40X
21W1					3	6021W1SAT59S40X	6021W1PAT59S40X
13W6					3	6013W6SAT59S40X	6013W6PAT59S40X
17W5					3	6017W5SAT59S40X	6017W5PAT59S40X
21WA4					3	621WA4SAT59S40X	621WA4PAT59S40X
25W3					3	6025W3SAT59S40X	6025W3PAT59S40X
27W2					3	6027W2SAT59S40X	6027W2PAT59S40X
24W7					3	6024W7SAT81S40X	6024W7PAT81S40X
36W4					3	6036W4SAT81S40X	6036W4PAT81S40X
43W2					3	6043W2SAT81S40X	6043W2PAT81S40X
47W1					3	6047W1SAT81S40X	6047W1PAT81S40X

Solder pin angled, .417"/10.6 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert







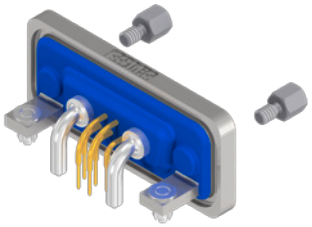
For other Power contacts select code from spread sheet			
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

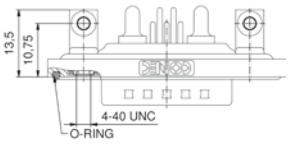
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	15	250	E202784	3	6005W1SAU59R20X	6005W1PAU59R20X
7W2					3	6007W2SAU59R20X	6007W2PAU59R20X
11W1					3	6011W1SAU59R20X	6011W1PAU59R20X
9W4					3	6009W4SAU59R20X	6009W4PAU59R20X
13W3					3	6013W3SAU59R20X	6013W3PAU59R20X
17W2					3	6017W2SAU59R20X	6017W2PAU59R20X
21W1					3	6021W1SAU59R20X	6021W1PAU59R20X
13W6					3	6013W6SAU59R20X	6013W6PAU59R20X
17W5					3	6017W5SAU59R20X	6017W5PAU59R20X
21WA4					3	621WA4SAU59R20X	621WA4PAU59R20X
25W3					3	6025W3SAU59R20X	6025W3PAU59R20X
27W2					3	6027W2SAU59R20X	6027W2PAU59R20X
24W7					3	6024W7SAU81R20X	6024W7PAU81R20X
36W4					3	6036W4SAU81R20X	6036W4PAU81R20X
43W2					3	6043W2SAU81R20X	6043W2PAU81R20X
47W1					3	6047W1SAU81R20X	6047W1PAU81R20X

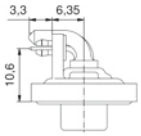
IP67 Combination D-SUB Connectors
With signal & high power contacts 15 A

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

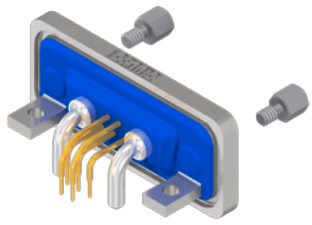
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

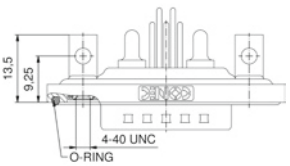
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	15	250	E202784	3	6005W1SAU**59**R40X	6005W1PAU**59**R40X
7W2					3	6007W2SAU**59**R40X	6007W2PAU**59**R40X
11W1					3	6011W1SAU**59**R40X	6011W1PAU**59**R40X
9W4					3	6009W4SAU**59**R40X	6009W4PAU**59**R40X
13W3					3	6013W3SAU**59**R40X	6013W3PAU**59**R40X
17W2					3	6017W2SAU**59**R40X	6017W2PAU**59**R40X
21W1					3	6021W1SAU**59**R40X	6021W1PAU**59**R40X
13W6					3	6013W6SAU**59**R40X	6013W6PAU**59**R40X
17W5					3	6017W5SAU**59**R40X	6017W5PAU**59**R40X
21WA4					3	621WA4SAU**59**R40X	621WA4PAU**59**R40X
25W3					3	6025W3SAU**59**R40X	6025W3PAU**59**R40X
27W2					3	6027W2SAU**59**R40X	6027W2PAU**59**R40X
24W7					3	6024W7SAU**81**R40X	6024W7PAU**81**R40X
36W4					3	6036W4SAU**81**R40X	6036W4PAU**81**R40X
43W2					3	6043W2SAU**81**R40X	6043W2PAU**81**R40X
47W1					3	6047W1SAU**81**R40X	6047W1PAU**81**R40X

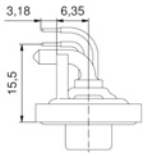
IP67 Combination D-SUB Connectors
With signal & high power contacts 15 A

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

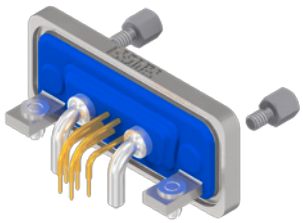
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*
- *Shellsize 5 on request*

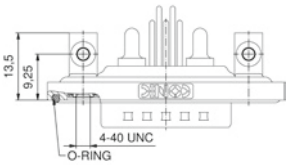
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	15	250	E202784	3	6005W1SAZ**59**S20X	6005W1PAZ**59**S20X
7W2					3	6007W2SAZ**59**S20X	6007W2PAZ**59**S20X
11W1					3	6011W1SAZ**59**S20X	6011W1PAZ**59**S20X
9W4					3	6009W4SAZ**59**S20X	6009W4PAZ**59**S20X
13W3					3	6013W3SAZ**59**S20X	6013W3PAZ**59**S20X
17W2					3	6017W2SAZ**59**S20X	6017W2PAZ**59**S20X
21W1					3	6021W1SAZ**59**S20X	6021W1PAZ**59**S20X
13W6					3	6013W6SAZ**59**S20X	6013W6PAZ**59**S20X
17W5					3	6017W5SAZ**59**S20X	6017W5PAZ**59**S20X
21WA4					3	621WA4SAZ**59**S20X	621WA4PAZ**59**S20X
25W3					3	6025W3SAZ**59**S20X	6025W3PAZ**59**S20X
27W2					3	6027W2SAZ**59**S20X	6027W2PAZ**59**S20X

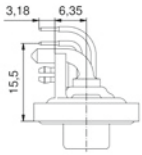
IP67 Combination D-SUB Connectors
With signal & high power contacts 15 A

Solder pin angled, .610"/15.5 mm
Precision machined contacts, metal bracket with PCB clip

Clip for PCB 1.6 mm, 4-40 UNC threaded insert







For other Power contacts select code from spread sheet			
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

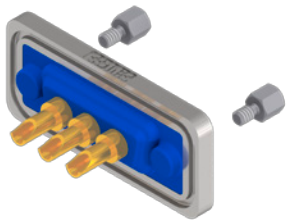
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*
- *Shellsize 5 on request*

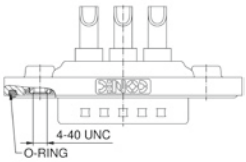
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7,5 (UL) / 5 (CSA, VDE)	15	250	E202784	3	6005W1SAZ**59**S40X	6005W1PAZ**59**S40X
7W2					3	6007W2SAZ**59**S40X	6007W2PAZ**59**S40X
11W1					3	6011W1SAZ**59**S40X	6011W1PAZ**59**S40X
9W4					3	6009W4SAZ**59**S40X	6009W4PAZ**59**S40X
13W3					3	6013W3SAZ**59**S40X	6013W3PAZ**59**S40X
17W2					3	6017W2SAZ**59**S40X	6017W2PAZ**59**S40X
21W1					3	6021W1SAZ**59**S40X	6021W1PAZ**59**S40X
13W6					3	6013W6SAZ**59**S40X	6013W6PAZ**59**S40X
17W5					3	6017W5SAZ**59**S40X	6017W5PAZ**59**S40X
21WA4					3	621WA4SAZ**59**S40X	621WA4PAZ**59**S40X
25W3					3	6025W3SAZ**59**S40X	6025W3PAZ**59**S40X
27W2					3	6027W2SAZ**59**S40X	6027W2PAZ**59**S40X

IP67 Combination D-SUB Connectors
With high power contacts 10 A

Solder cup straight
Precision machined contacts

4-40 UNC threaded insert



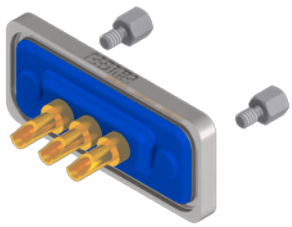


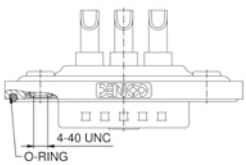
For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	10	250	E202784	3	6003W3SXX**61**B30X	6003W3PXX**61**B30X
5W5		250			6005W5SXX**61**B30X	6005W5PXX**61**B30X
8W8		250			6008W8SXX**61**B30X	6008W8PXX**61**B30X

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

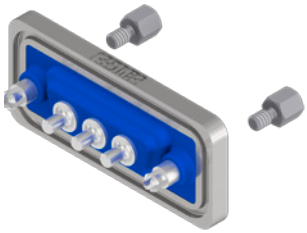
No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	10	250	E202784	3	602W2CSXX**61**B30X	602W2CPXX**61**B30X
3W3C		250			603W3CSXX**61**B30X	603W3CPXX**61**B30X

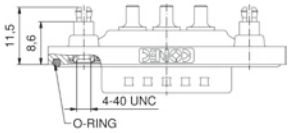
IP67 Combination D-SUB Connectors
With high power contacts 10 A

Solder pin straight
Precision machined contacts

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm



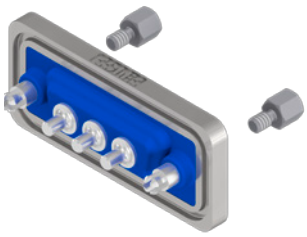


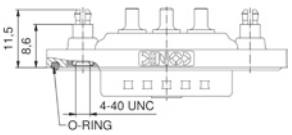
No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	250	E202784	3	6003W3SXX**68**E20X	6003W3PXX**68**E20X
5W5		250			6005W5SXX**68**E20X	6005W5PXX**68**E20X
8W8		250			6008W8SXX**68**E20X	6008W8PXX**68**E20X

For other Power contacts select code from spread sheet

Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

4-40 UNC front, threaded rear spacer clip for PCB 1.6 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	20	250	E202784	3	602W2CSXX**68**E20X	602W2CPXX**68**E20X
3W3C		250			603W3CSXX**68**E20X	603W3CPXX**68**E20X

For other Power contacts select code from spread sheet

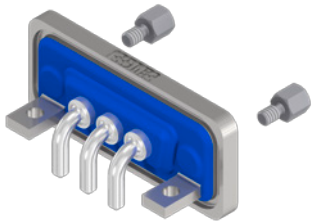
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

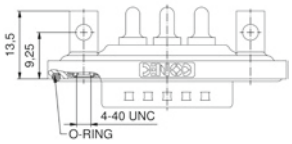
IP67 Combination D-SUB Connectors
With high power contacts 15 A

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

Solder pin angled
Precision machined contacts, metal bracket

4-40 UNC threaded insert

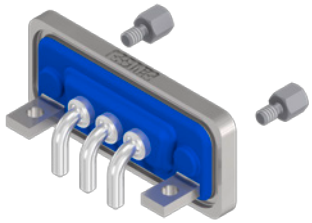


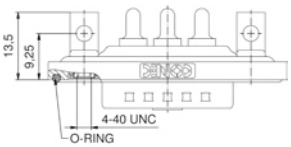


For other Power contacts select code from spread sheet			
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75

No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	15	250	E202784	3	6003W3SXX**59**S20X	6003W3PXX**59**S20X
5W5		250			6005W5SXX**59**S20X	6005W5PXX**59**S20X
8W8		250			6008W8SXX**59**S20X	6008W8PXX**59**S20X

4-40 UNC threaded insert, coded version



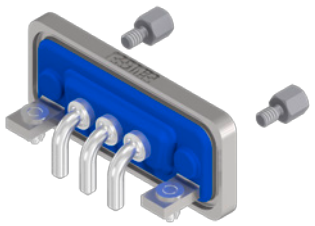


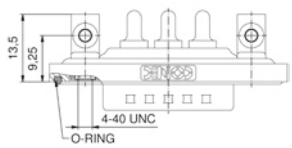
For other Power contacts select code from spread sheet			
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75

No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	15	250	E202784	3	602W2CSXX**59**S20X	602W2CPXX**59**S20X
3W3C		250			603W3CSXX**59**S20X	603W3CPXX**59**S20X

Solder pin angled
Precision machined contacts, metal bracket with PCB clip

Clip for PCB 1.6 mm, 4-40 UNC threaded insert





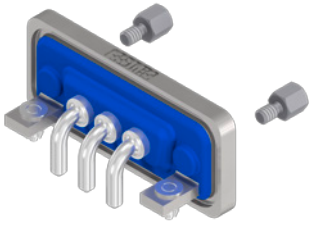
For other Power contacts select code from spread sheet			
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75

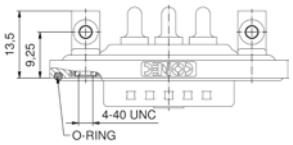
No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	15	250	E202784	3	6003W3SXX**59**S40X	6003W3PXX**59**S40X
5W5		250			6005W5SXX**59**S40X	6005W5PXX**59**S40X
8W8		250			6008W8SXX**59**S40X	6008W8PXX**59**S40X

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





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

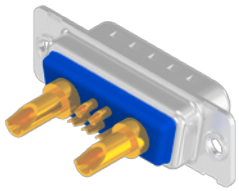
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

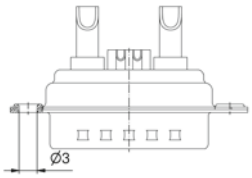
No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	15	250	E202784	3	602W2CSXX**59**S40X	602W2CPXX**59**S40X
3W3C		250			603W3CSXX**59**S40X	603W3CPXX**59**S40X

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 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

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cyles
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*

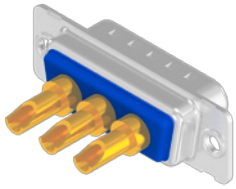
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
9W4	75 (UL) / 5 (CSA VDE)	10	250	E202784	3	4005W1SAM**61**A10X	4005W1PAM**61**A10X
7W2					3	4007W2SAM**61**A10X	4007W2PAM**61**A10X
17W5					3	4011W1SAM**61**A10X	4011W1PAM**61**A10X
9W4					3	4009W4SAM**61**A10X	4009W4PAM**61**A10X
21W1					3	4013W3SAM**61**A10X	4013W3PAM**61**A10X
24W7					3	4017W2SAM**61**A10X	4017W2PAM**61**A10X
27W2					3	4021W1SAM**61**A10X	4021W1PAM**61**A10X
24W7					3	4013W6SAM**61**A10X	4013W6PAM**61**A10X
25W3					3	4017W5SAM**61**A10X	4017W5PAM**61**A10X
21WA4					3	421WA4SAM**61**A10X	421WA4PAM**61**A10X
43W2					3	4025W3SAM**61**A10X	4025W3PAM**61**A10X
47W1					3	4027W2SAM**61**A10X	4027W2PAM**61**A10X
36W4					3	4024W7SAM**61**A10X	4024W7PAM**61**A10X
21WA4					3	4036W4SAM**61**A10X	4036W4PAM**61**A10X
43W2					3	4043W2SAM**61**A10X	4043W2PAM**61**A10X
47W1					3	4047W1SAM**61**A10X	4047W1PAM**61**A10X

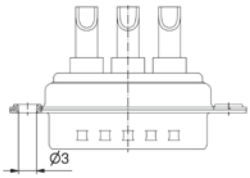
IP67 Combination D-SUB Connectors
Without frame, with high power contacts 10 A

Solder cup straight
Precision machined contacts, design for use with hood

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cyles
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*

Through-hole Ø 3 mm

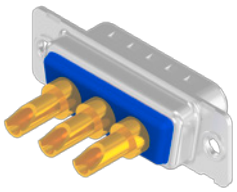


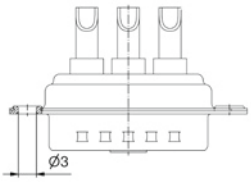


For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
8W8	10	250	E202784	3	4003W3SXX61A10X	4003W3PXX61A10X
11W1		250			4005W5SXX61A10X	4005W5PXX61A10X
13W3		250			4008W8SXX61A10X	4008W8PXX61A10X

Through-hole Ø 3 mm, coded version





For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

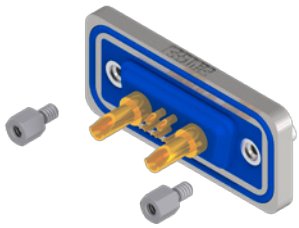
No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	10	250	E202784	3	402W2CSXX61A10X	402W2CPXX61A10X
3W3C		250			403W3CSXX61A10X	403W3CPXX61A10X

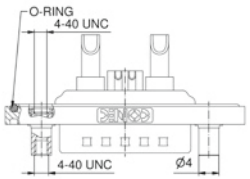
IP67 Combination D-SUB Connectors
Front panel mounting, with signal & high power contacts

Solder cup straight
Precision machined contacts

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

Front spacer 4-40 UNC





For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

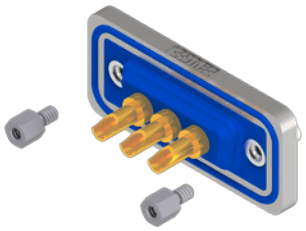
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	7.5 (UL) / 5 (CSA, VDE)	10	250	E202784	3	6005W1SAM61B50X	6005W1PAM61B50X
7W2					3	6007W2SAM61B50X	6007W2PAM61B50X
11W1					3	6011W1SAM61B50X	6011W1PAM61B50X
9W4					3	6009W4SAM61B50X	6009W4PAM61B50X
13W3					3	6013W3SAM61B50X	6013W3PAM61B50X
17W2					3	6017W2SAM61B50X	6017W2PAM61B50X
21W1					3	6021W1SAM61B50X	6021W1PAM61B50X
13W6					3	6013W6SAM61B50X	6013W6PAM61B50X
17W5					3	6017W5SAM61B50X	6017W5PAM61B50X
21WA4					3	621WA4SAM61B50X	621WA4PAM61B50X
25W3					3	6025W3SAM61B50X	6025W3PAM61B50X
27W2					3	6027W2SAM61B50X	6027W2PAM61B50X
24W7					3	6024W7SAM61B50X	6024W7PAM61B50X
36W4					3	6036W4SAM61B50X	6036W4PAM61B50X
43W2					3	6043W2SAM61B50X	6043W2PAM61B50X
47W1					3	6047W1SAM61B50X	6047W1PAM61B50X

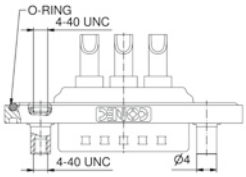
IP67 Combination D-SUB Connectors 20 A
Front panel mounting, with high power contacts

Solder cup straight
Precision machined contacts

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cyles
Stainless steel hex bolts are supplied loose
On request:
- *Shell: Stainless steel*
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

Front spacer 4-40 UNC

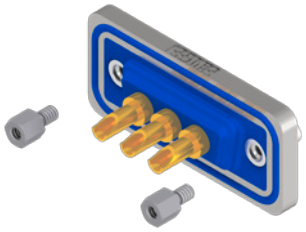


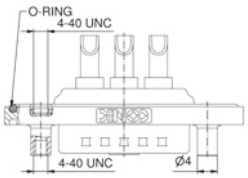


For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

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	3	6003W3SXX**61**B50X	6003W3PXX**61**B50X
5W5		250			6005W5SXX**61**B50X	6005W5PXX**61**B50X
8W8		250			6008W8SXX**61**B50X	6008W8PXX**61**B50X

Front spacer 4-40 UNC, coded version



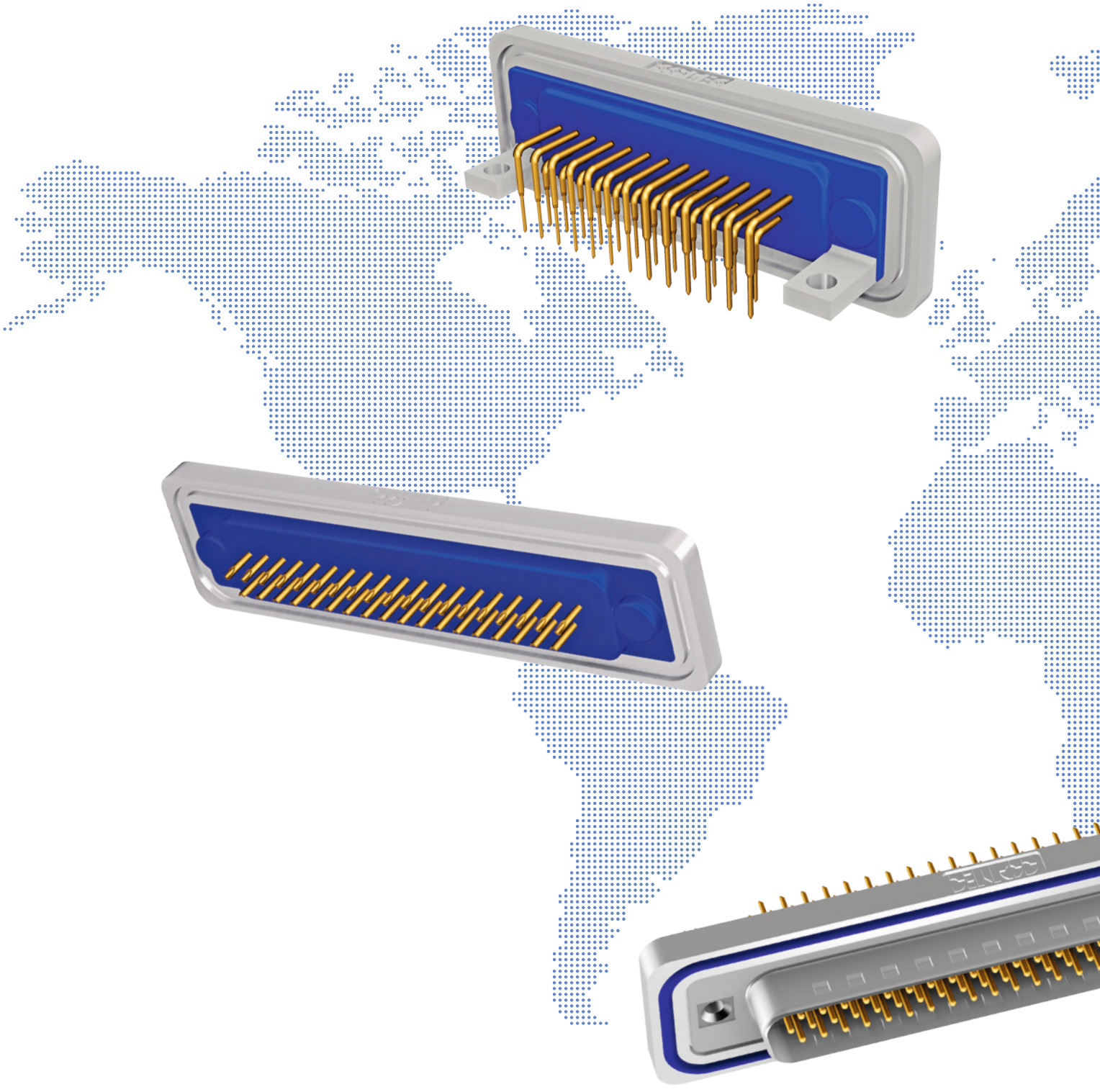


For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

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	602W2CSXX**61**B50X	602W2CPXX**61**B50X
3W3C		250			603W3CSXX**61**B50X	603W3CPXX**61**B50X

Section 8

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 rquest)

Quality class / Plating code for contacts
A = Quality class 3 = 50 mating cycles
B = Quality class 2 = 200 mating cycles
C = Quality class 1 = 500 mating cycles

Termination
M = Solder cup only for STF
R = Solder pin, straight
T = Solder pin, angled, 4.80 mm only for STF
U = Solder pin, angled, 7.00 mm only for STF
Z = Solder pin, angled, 11.80 mm only for STF
Y = Solder pin, angled, 5.60 mm only for HDF

Capacitance
03 = 370 pF ± 20% tolerance
04 = 830 pF ± 20% tolerance
05* = 1300 pF ± 20% tolerance * not applicable for HDF

Mounting style
A1 = Riveted through hole for cable mount / Shell without sealing frame
B3 = 4-40 UNC threaded insert
B5 = Threaded lock for 4-40 UNC front mounting
E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" / 1.60 mm
S2 = Metal bracket 4-40 UNC threaded insert
S4 = Metal bracket 4-40 UNC threaded insert and PCB clip
R2 = Metal bracket 4-40 UNC threaded insert
R4 = Metal bracket 4-40 UNC threaded insert and PCB clip

OX = Standard

IP67 Filter D-SUB Connectors

Product specification

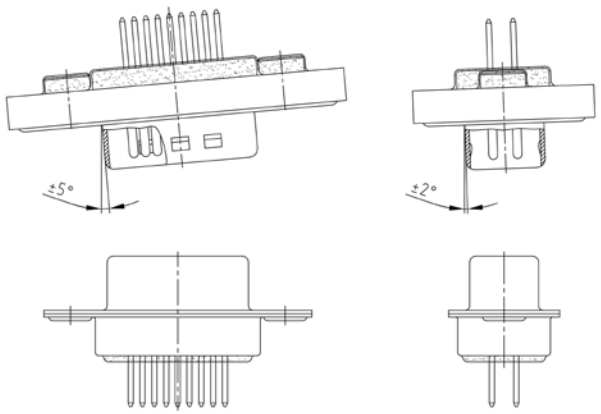
Basic material	IP67 Filter D-SUB Standard 9-, 15-, 25-, 37- , 50-pos.	IP67 Filter D-SUB High Density 15-, 26-, 44-, 62-pos.	IP67 Filter D-SUB SlimCon 9-, 15-, 25-pos.
Contact	Copper alloy		
Contact plating	Gold over nickel		
Insulator	PBT GF UL94 V-0		
Shell	Brass tin plated		Zinc die-cast nickel plated
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 %	370 pF ± 20 % 820 pF ± 20 % 1200 pF ± 20 %
	other capacitor values on request		
Operating temperature	-25 °C bis/to +105 °C	-25 °C bis/to +85 °C	-40 °C bis/to +105 °C
Humidity	40 °C / 85% Relative humidity		
Mating and unmating forces	9-pos. ≤ 30 N 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 termial dipping parameters	
	max. temperature	duration (max.)	max. Solder bath temperature	max. terminal immersion time
IP67 Filter D-SUB Standard	100 °C	30 s	260 °C	5 s
IP67 Filter D-SUB High Density	100 °C	30 s	260 °C	5 s
IP67 Filter D-SUB SlimCon	150 °C	180 s	265 °C	8 s

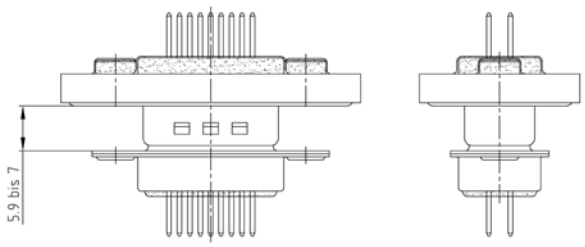
Technical specifications are subject to change without notice

Mating conditions

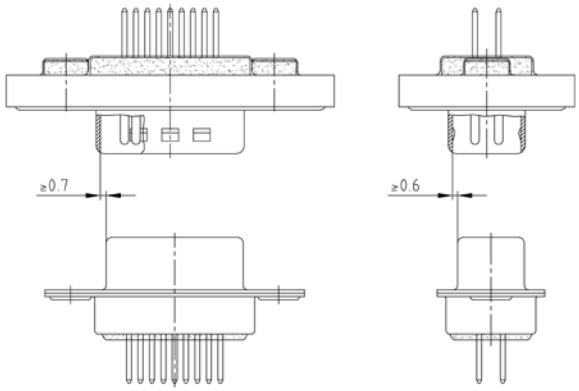
Max. tilt angle for connector mating



Range for safe contact

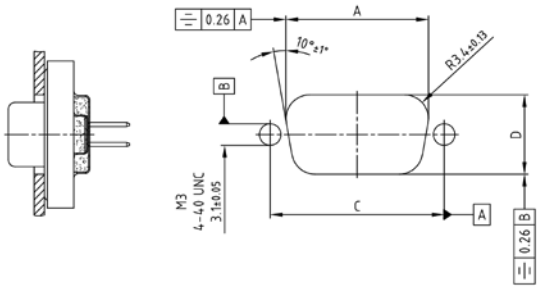


Lock-in range

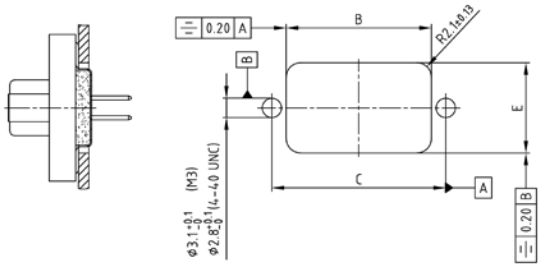


Panel cut-out

Rear panel mounting



Front panel mounting



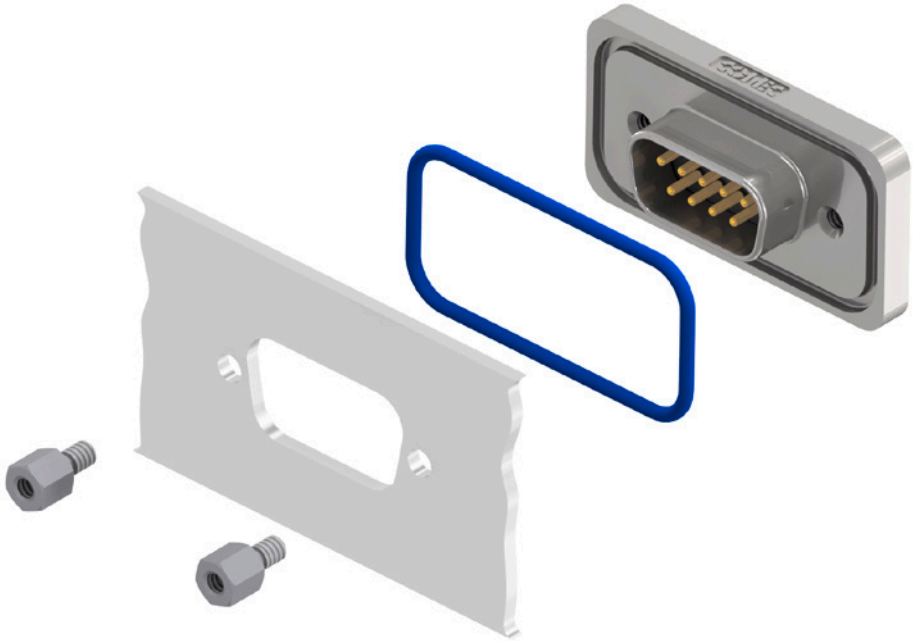
Shell size	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
9	20.50	20.90	25.00	11.40	13.00
15	28.80	29.20	33.30	11.40	13.00
25	42.50	42.90	47.04	11.40	13.00
37	59.10	59.40	63.50	11.40	13.00
50	56.30	57.00	61.10	14.10	15.80

Panel mounting

Front panel mounting



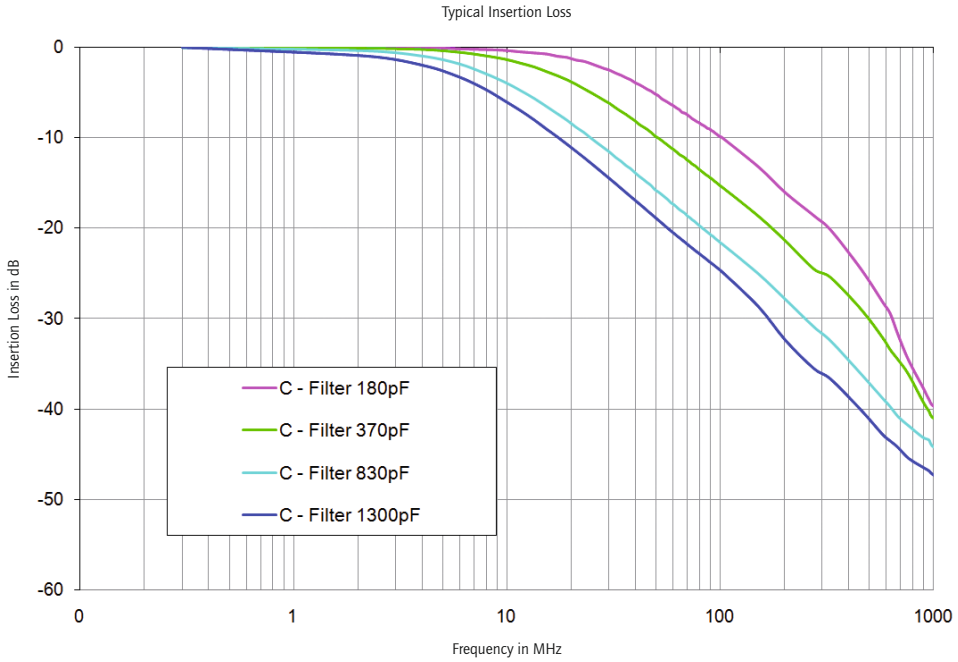
Back panel mounting



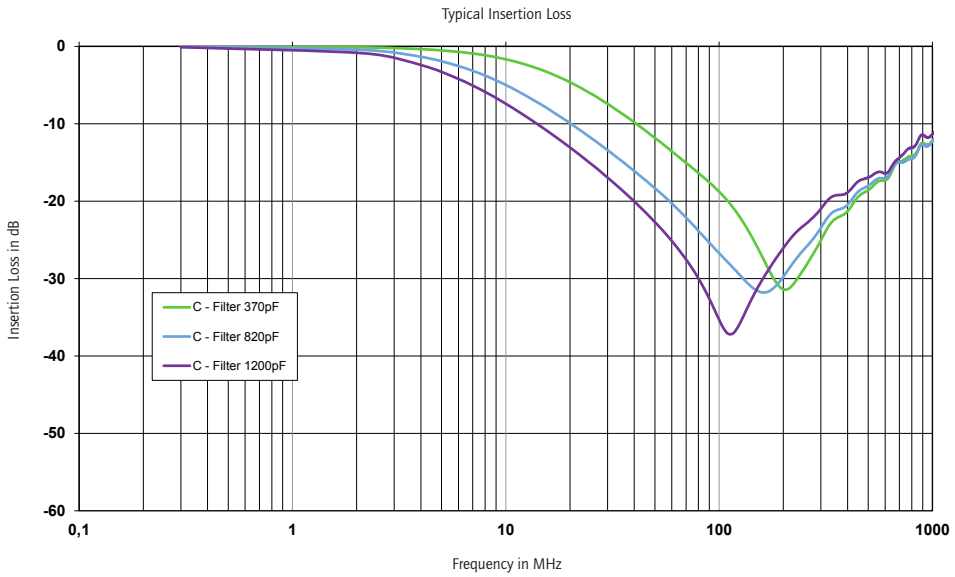
The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (Standard)/.051"/1.3 mm (CONEC SlimCon) such that it does not extend beyond the plug-in height.
Material: stainless steel.

Insertion loss

C-Filter with planar filter technology



C-Filter with chip technology (CONEC SlimCon)



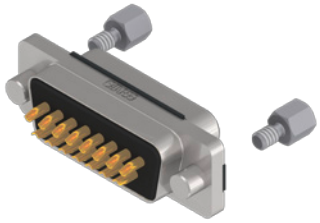
Technical specifications are subject to change without notice.

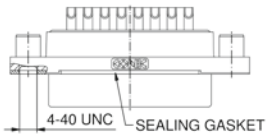
IP67 Filter D-SUB Connectors
CONEC SlimCon, C-Filter, Standard

Solder cup
Precision machined contacts, AWG20

One-piece zinc die-cast nickel plated shell
EMC Gasket or Silicone Gasket
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
- *Quality class 1 (C) = 500 mating cycles*
- *Gaskets also available separately*

4-40 UNC threaded insert





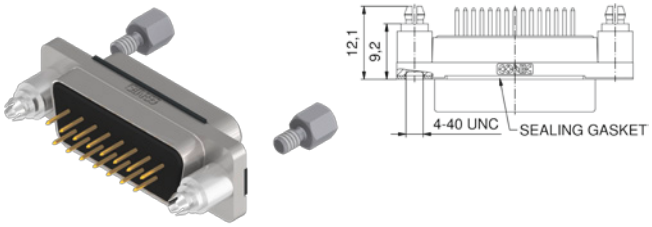
No. of poles	Current rating [A]	Working voltage [V]	Quality class	Capacitance [pF]	EMC gasket	Silicone gasket	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA, VDE)	100	3	370	✓		15-008983	15-008943
15							15-008993	15-008953
25							15-009003	15-008963
09	75 (UL) / 5 (CSA, VDE)	100	3	820	✓		15-009063	15-009023
15							15-009073	15-009033
25							15-009083	15-009043
09	75 (UL) / 5 (CSA, VDE)	100	3	1200	✓		15-009143	15-009103
15							15-009153	15-009113
25							15-009163	15-009123
09	75 (UL) / 5 (CSA, VDE)	100	3	370		✓	15-009463	15-009423
15							15-009473	15-009433
25							15-009483	15-009443
09	75 (UL) / 5 (CSA, VDE)	100	3	820		✓	15-009543	15-009503
15							15-009553	15-009513
25							15-009563	15-009523
09	75 (UL) / 5 (CSA, VDE)	100	3	1200		✓	15-009623	15-009583
15							15-009633	15-009593
25							15-009643	15-009603

IP67 Filter D-SUB Connectors
CONEC SlimCon, C-Filter, Standard

Solder pin, straight
Precision machined contacts

One-piece zinc die-cast nickel plated shell
EMC Gasket or Silicone Gasket
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
- *Quality class 1 (C) = 500 mating cycles*
- *Gaskets also available separately*

Clip for PCB 1.6 mm, 4-40 UNC threaded insert



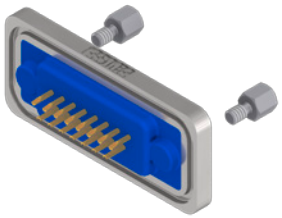
No. of poles	Current rating [A]	Working voltage [V]	Quality class	Capacitance [pF]	EMC gasket	Silicone gasket	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA, VDE)	100	3	370	✓		15-009223	15-009183
15							15-009233	15-009193
25							15-009243	15-009203
09	75 (UL) / 5 (CSA, VDE)	100	3	820	✓		15-009303	15-009263
15							15-009313	15-009273
25							15-009323	15-009283
09	75 (UL) / 5 (CSA, VDE)	100	3	1200	✓		15-009383	15-009343
15							15-009393	15-009353
25							15-009403	15-009363
09	75 (UL) / 5 (CSA, VDE)	100	3	370		✓	15-009703	15-009663
15							15-009713	15-009673
25							15-009723	15-009683
09	75 (UL) / 5 (CSA, VDE)	100	3	820		✓	15-009783	15-009743
15							15-009793	15-009753
25							15-009803	15-009763
09	75 (UL) / 5 (CSA, VDE)	100	3	1200		✓	15-009863	15-009823
15							15-009873	15-009833
25							15-009883	15-009843

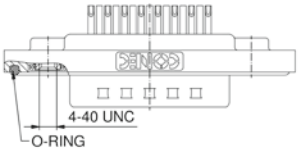
IP67 Filter D-SUB Connectors
Plug connector, C-Filter, Standard

Solder cup
Precision machined contacts, AWG 26

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
On request:
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

4-40 UNC threaded insert





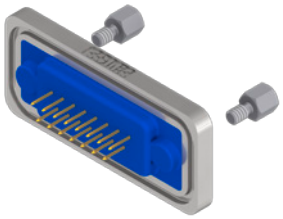
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF09PAM03B30X
15						6STF15PAM03B30X
25						6STF25PAM03B30X
37						6STF37PAM03B30X
50						6STF50PAM03B30X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF09PAM04B30X
15						6STF15PAM04B30X
25						6STF25PAM04B30X
37						6STF37PAM04B30X
50						6STF50PAM04B30X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF09PAM05B30X
15						6STF15PAM05B30X
25						6STF25PAM05B30X
37						6STF37PAM05B30X
50						6STF50PAM05B30X

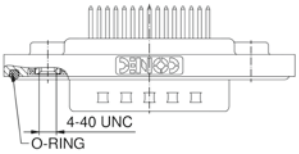
IP67 Filter D-SUB Connectors
Plug connector, C-Filter, Standard

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*

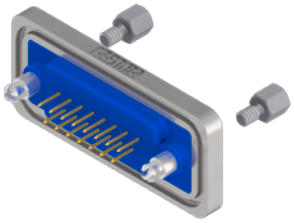
4-40 UNC threaded insert

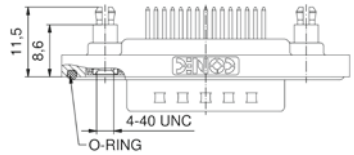




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF09PAR03B30X
15						6STF15PAR03B30X
25						6STF25PAR03B30X
37						6STF37PAR03B30X
50						6STF50PAR03B30X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF09PAR04B30X
15						6STF15PAR04B30X
25						6STF25PAR04B30X
37						6STF37PAR04B30X
50						6STF50PAR04B30X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF09PAR05B30X
15						6STF15PAR05B30X
25						6STF25PAR05B30X
37						6STF37PAR05B30X
50						6STF50PAR05B30X

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm





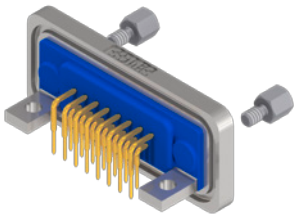
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF09PAR03E20X
15						6STF15PAR03E20X
25						6STF25PAR03E20X
37						6STF37PAR03E20X
50						6STF50PAR03E20X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF09PAR04E20X
15						6STF15PAR04E20X
25						6STF25PAR04E20X
37						6STF37PAR04E20X
50						6STF50PAR04E20X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF09PAR05E20X
15						6STF15PAR05E20X
25						6STF25PAR05E20X
37						6STF37PAR05E20X
50						6STF50PAR05E20X

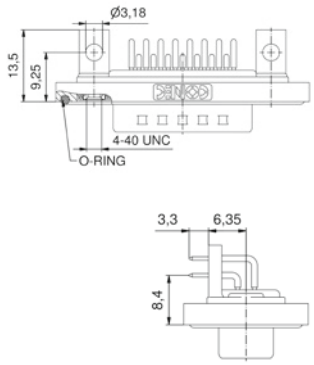
IP67 Filter D-SUB Connectors
Plug connector, C-Filter, Standard

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*

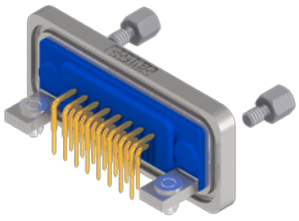
4-40 UNC threaded insert

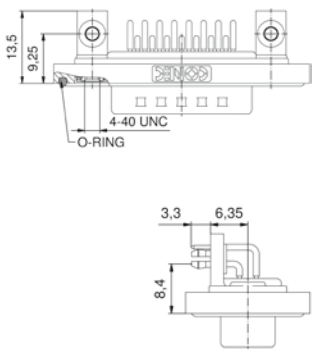




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF09PAT03S20X
15						6STF15PAT03S20X
25						6STF25PAT03S20X
37						6STF37PAT03S20X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF09PAT04S20X
15						6STF15PAT04S20X
25						6STF25PAT04S20X
37						6STF37PAT04S20X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF09PAT05S20X
15						6STF15PAT05S20X
25						6STF25PAT05S20X
37						6STF37PAT05S20X

Clip for PCB 1.6 mm, 4-40 UNC threaded insert





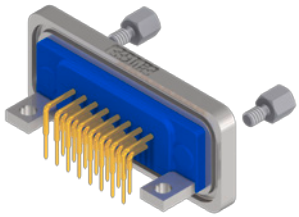
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF09PAT03S40X
15						6STF15PAT03S40X
25						6STF25PAT03S40X
37						6STF37PAT03S40X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF09PAT04S40X
15						6STF15PAT04S40X
25						6STF25PAT04S40X
37						6STF37PAT04S40X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF09PAT05S40X
15						6STF15PAT05S40X
25						6STF25PAT05S40X
37						6STF37PAT05S40X

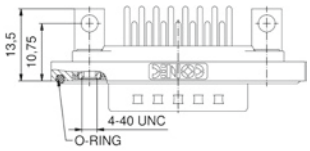
IP67 Filter D-SUB Connectors
Plug connector, C-Filter, Standard

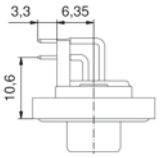
Solder pin angled, .417"/10.6 mm
Precision machined contacts, metal bracket

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

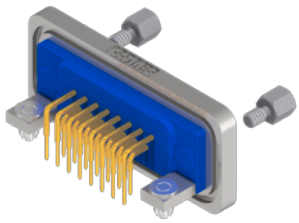


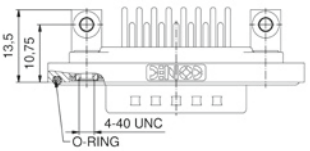


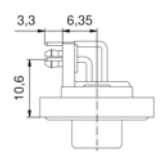


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF09PAU03R20X
15						6STF15PAU03R20X
25						6STF25PAU03R20X
37						6STF37PAU03R20X
50						6STF50PAU03R20X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF09PAU04R20X
15						6STF15PAU04R20X
25						6STF25PAU04R20X
37						6STF37PAU04R20X
50						6STF50PAU04R20X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF09PAU05R20X
15						6STF15PAU05R20X
25						6STF25PAU05R20X
37						6STF37PAU05R20X
50						6STF50PAU05R20X

Clip for PCB 1.6 mm, 4-40 UNC threaded insert







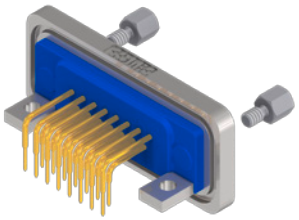
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF09PAU03R40X
15						6STF15PAU03R40X
25						6STF25PAU03R40X
37						6STF37PAU03R40X
50						6STF50PAU03R40X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF09PAU04R40X
15						6STF15PAU04R40X
25						6STF25PAU04R40X
37						6STF37PAU04R40X
50						6STF50PAU04R40X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF09PAU05R40X
15						6STF15PAU05R40X
25						6STF25PAU05R40X
37						6STF37PAU05R40X
50						6STF50PAU05R40X

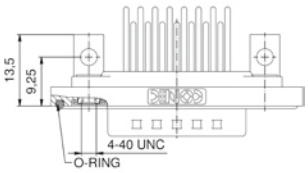
IP67 Filter D-SUB Connectors
Plug connector, C-Filter, Standard

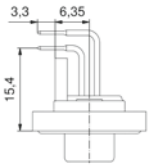
Solder pin angled, .606"/15.4 mm
Precision machined contacts, metal bracket

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

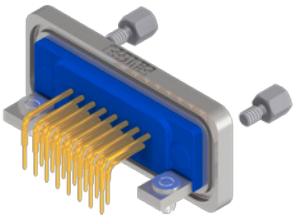


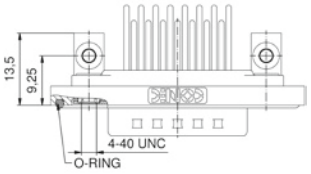


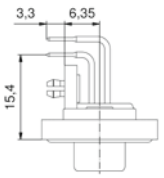


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF09PAZ03S20X
15						6STF15PAZ03S20X
25						6STF25PAZ03S20X
37						6STF37PAZ03S20X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF09PAZ04S20X
15						6STF15PAZ04S20X
25						6STF25PAZ04S20X
37						6STF37PAZ04S20X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF09PAZ05S20X
15						6STF15PAZ05S20X
25						6STF25PAZ05S20X
37						6STF37PAZ05S20X

Clip for PCB 1.6 mm, 4-40 UNC threaded insert







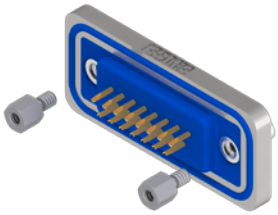
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF09PAZ03S40X
15						6STF15PAZ03S40X
25						6STF25PAZ03S40X
37						6STF37PAZ03S40X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF09PAZ04S40X
15						6STF15PAZ04S40X
25						6STF25PAZ04S40X
37						6STF37PAZ04S40X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF09PAZ05S40X
15						6STF15PAZ05S40X
25						6STF25PAZ05S40X
37						6STF37PAZ05S40X

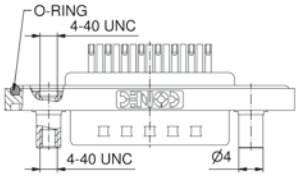
IP67 Filter D-SUB Connectors
Plug connector, C-Filter, Standard, front panel mounting

Solder cup
Precision machined contacts, AWG 26

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
On request:
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

4-40 UNC front spacer





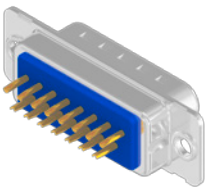
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	6STF09PAM03B50X
15						6STF15PAM03B50X
25						6STF25PAM03B50X
37						6STF37PAM03B50X
50						6STF50PAM03B50X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	6STF09PAM04B50X
15						6STF15PAM04B50X
25						6STF25PAM04B50X
37						6STF37PAM04B50X
50						6STF50PAM04B50X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	6STF09PAM05B50X
15						6STF15PAM05B50X
25						6STF25PAM05B50X
37						6STF37PAM05B50X
50						6STF50PAM05B50X

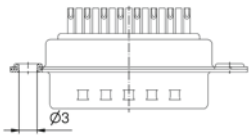
IP67 Filter D-SUB Connectors
Plug connector, C-Filter, Standard

Solder cup p,recision machined contacts
Hood Assembly, AWG 26

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
- *Quality class 1 (C) = 500 mating cycles*

Through-hole Ø 3 mm





No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	370	4STF09PAM03A10X
15						4STF15PAM03A10X
25						4STF25PAM03A10X
37						4STF37PAM03A10X
50						4STF50PAM03A10X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	830	4STF09PAM04A10X
15						4STF15PAM04A10X
25						4STF25PAM04A10X
37						4STF37PAM04A10X
50						4STF50PAM04A10X
09	7.5 (UL) / 5 (CSA, VDE)	100	E202784	3	1300	4STF09PAM05A10X
15						4STF15PAM05A10X
25						4STF25PAM05A10X
37						4STF37PAM05A10X
50						4STF50PAM05A10X

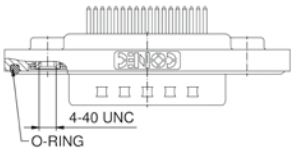
IP67 Filter D-SUB Connectors
Plug connector C-Filter High Density

Solder pin straight
Precision machined contact

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
On request:
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

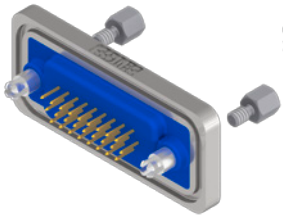
4-40 UNC threaded insert

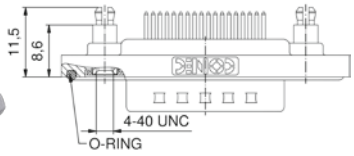




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
15	3 (UL) / 2.5 (CSA)	100	E202784	3	370	6HDF15PAR03B30X
26						6HDF26PAR03B30X
44						6HDF44PAR03B30X
62						6HDF62PAR03B30X
15	3 (UL) / 2.5 (CSA)	100	E202784	3	830	6HDF15PAR04B30X
26						6HDF26PAR04B30X
44						6HDF44PAR04B30X
62						6HDF62PAR04B30X

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm





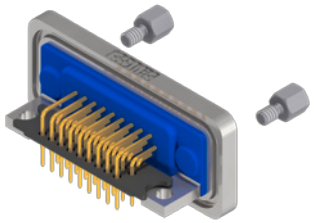
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
15	3 (UL) / 2.5 (CSA)	100	E202784	3	370	6HDF15PAR03E20X
26						6HDF26PAR03E20X
44						6HDF44PAR03E20X
62						6HDF62PAR03E20X
15	3 (UL) / 2.5 (CSA)	100	E202784	3	830	6HDF15PAR04E20X
26						6HDF26PAR04E20X
44						6HDF44PAR04E20X
62						6HDF62PAR04E20X

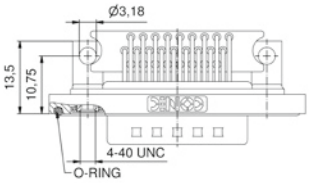
IP67 Filter D-SUB Connectors
Plug connector C-Filter High Density

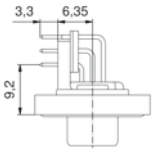
Solder pin angled .362"/9.2 mm
Precision machined contacts, metal bracket

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
On request:
- *Quality class 1 (C) = 500 mating cycles*
- *M3 thread*

4-40 UNC threaded insert

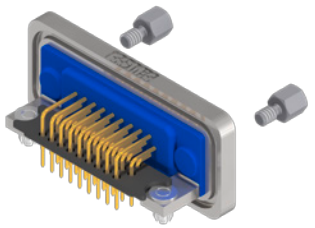


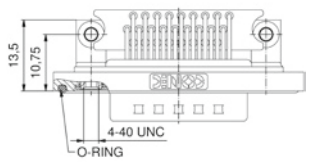


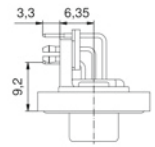


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
15	3 (UL) / 2.5 (CSA)	100	E202784	3	370	6HDF15PAY03R20X
26						6HDF26PAY03R20X
44						6HDF44PAY03R20X
62						6HDF62PAY03R20X
15	3 (UL) / 2.5 (CSA)	100	E202784	3	830	6HDF15PAY04R20X
26						6HDF26PAY04R20X
44						6HDF44PAY04R20X
62						6HDF62PAY04R20X

Clip for PCB 1.6 mm, 4-40 UNC threaded insert



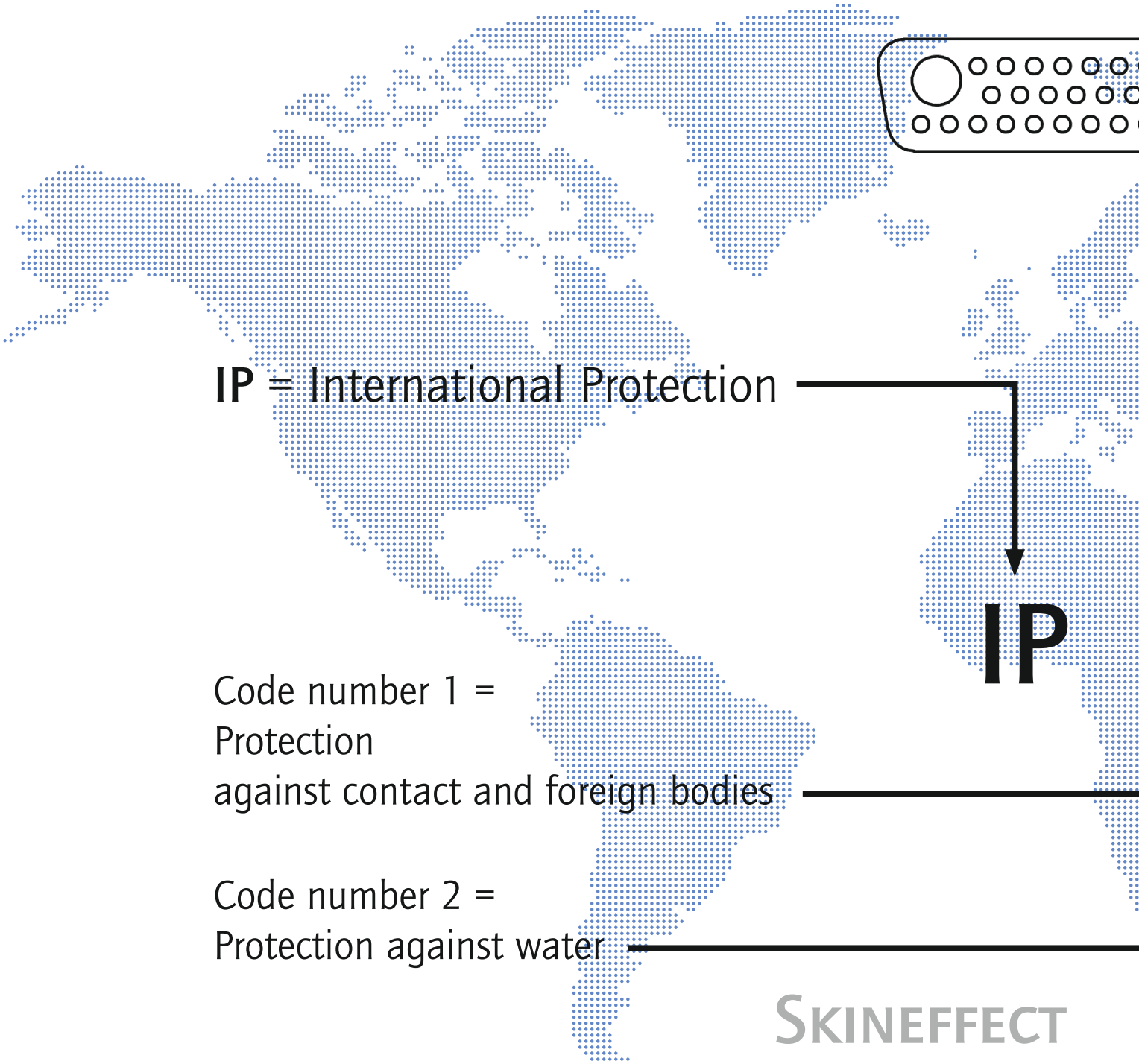




No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
15	3 (UL) / 2.5 (CSA)	100	E202784	3	370	6HDF15PAY03R40X
26						6HDF26PAY03R40X
44						6HDF44PAY03R40X
62						6HDF62PAY03R40X
15	3 (UL) / 2.5 (CSA)	100	E202784	3	830	6HDF15PAY04R40X
26						6HDF26PAY04R40X
44						6HDF44PAY04R40X
62						6HDF62PAY04R40X

Section 9

Technical Information

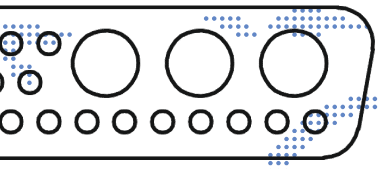






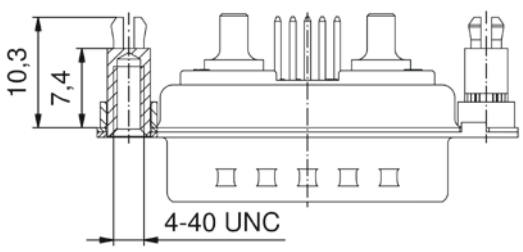






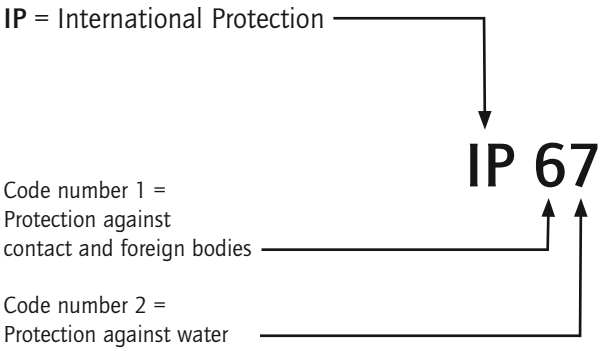
67

Solder parameter



Protection classes

Norm IEC 60529



For safety reasons, connectors have to be protected against external influences like dust, foreign objects, direct contact, moisture and water. For industrial connectors, this protection is provided by their housings with their latching devices and sealed cable entries. The protection classes are also called IP Codes. The abbreviation IP stands for "ingress protection". Standard IEC 60529 specifies and divides the degree of protection into several classes.

The protection classes refer to protection against contact and ingress of solid foreign objects and dust (indicated by the first code digit of the IP Code) as well as against damaging ingress of water (indicated by the second code digit of the IP Code)

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.	

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

$$\delta = \frac{1}{\sqrt{f \pi \sigma \mu_0 \mu_r}}$$

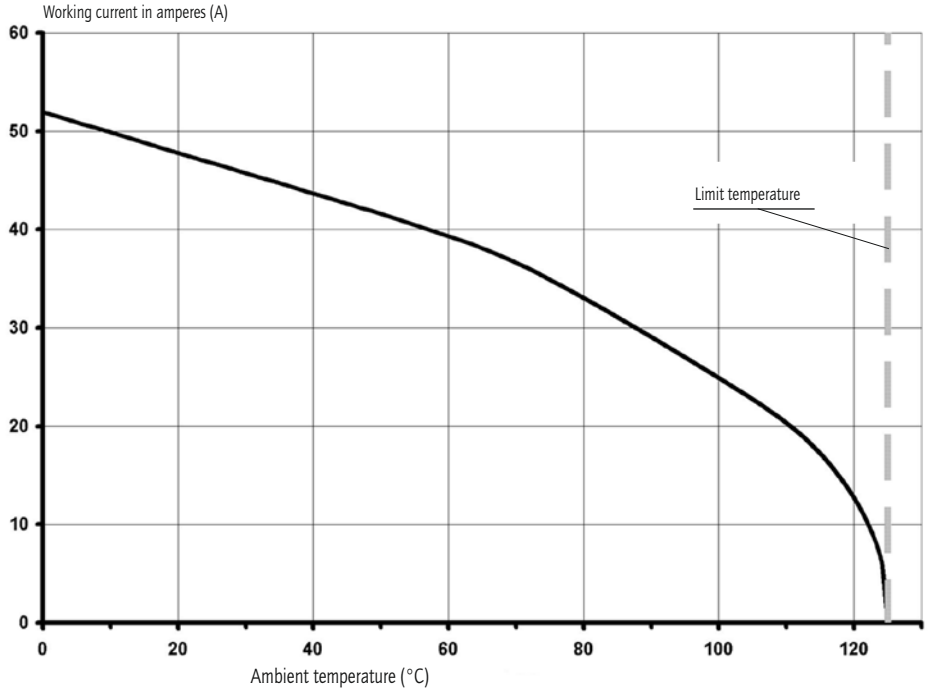
f = frequency
σ = conductivity of the conductor material
σ_{Ag} = 62 x 10^6 S/m
σ_{Cu} = 58 x 10^6 S/m
μ_0 = 1,256 10^6 Vs / Am
μ_r ... relative permeability constant for the employed material

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 m 1 ∞). The reciprocal value of the VSWR is known as the inverse voltage standing wave ratio m (where 0 m 1).
(VSWR = Voltage standing ware ratio)
The value of is linked with the → reflection coefficient r on s transmission line according to the equation

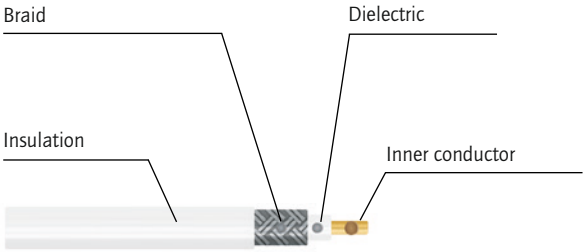
$$s = \frac{(1 + |r|)}{(1 - |r|)}$$

DeRating Curve



All connectors in the Water Resistant Combination D-Subminiature series are fully loaded with contacts.
They are equipped with either signal, high voltage, high power or coaxial contacts according to requirements.
Our production standard requires that all connectors are fully loaded.
Connectors 3W3, 5W5 and 8W8 female: Socket contacts are fingerprobe safe according to UL1950 and CSA 22.2.950 specifications.

Typical Assembly for coaxial crimp contacts (Detailed information upon request)



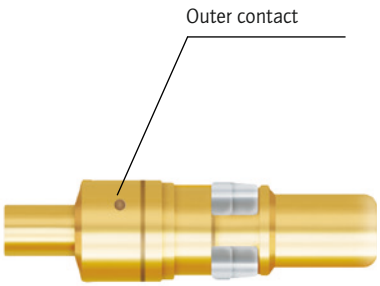
Strip the wire
Using dimensions shown on the individual product drawings



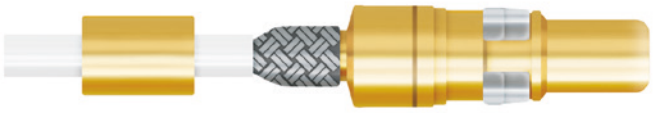
Slide sleeve over coax cable



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

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

Conversion table for units µm/mm/inch

µm 1/1000 mm	µinch 1/1000 inch
0,10	4
0,20	8
0,25	10
0,30	12
0,50	20
0,70	28
0,75	30
0,80	32
1,00	39
1,27	50
2,00	79
2,50	98
3,00	118
4,00	157
5,00	197

mm	inch
0,10	.004
0,20	.008
0,25	.012
0,35	.014
0,40	.016
0,45	.018
0,50	.020
0,55	.022
0,60	.024
0,64	.025
0,65	.026
0,70	.028
0,75	.030
0,80	.032
0,85	.034
0,90	.035
1,00	.039
1,20	.047
1,25	.049
1,27	.050
1,30	.051
1,35	.053
1,40	.055
1,45	.057
1,50	.059
1,60	.063
1,70	.067
1,80	.071
1,85	.073
1,90	.075
2,00	.079
2,10	.083
2,20	.087
2,30	.091
2,40	.095
2,50	.098
2,54	.100
2,60	.102
2,70	.106
2,80	.110
2,84	.112
2,90	.114
3,00	.118
3,10	.122
3,20	.126

mm	inch
3,30	.130
3,40	.134
3,50	.138
3,60	.142
3,70	.146
3,80	.150
3,81	.150
3,90	.154
4,00	.158
4,10	.161
4,20	.165
4,30	.169
4,50	.177
4,70	.185
4,90	.193
5,00	.197
5,08	.200
5,10	.201
5,20	.205
5,30	.209
5,40	.213
5,50	.217
5,60	.220
5,70	.224
5,80	.228
6,00	.236
6,10	.240
6,40	.252
6,50	.256
6,60	.260
6,70	.264
6,80	.268
6,90	.272
7,00	.276
7,10	.280
7,20	.283
7,40	.291
7,50	.295
7,60	.299
7,62	.300
7,70	.303
7,80	.307
7,98	.314
8,00	.315
8,18	.318
8,20	.323
8,30	.327
8,40	.331
8,50	.335
8,60	.339
8,90	.350
9,00	.354
9,10	.358
9,20	.362
9,30	.366
9,40	.370
9,50	.374
9,60	.378
9,70	.382
9,90	.390
10,00	.395

mm	inch
10,16	.400
10,26	.402
10,36	.406
10,56	.413
10,66	.417
10,76	.421
11,00	.433
11,20	.441
11,40	.449
11,50	.453
11,60	.457
11,90	.469
12,00	.472
12,20	.480
12,30	.484
12,40	.488
12,50	.492
12,70	.500
12,90	.508
13,00	.512
13,10	.516
13,20	.520
13,50	.532
13,60	.535
13,70	.539
13,90	.547
14,00	.551
14,30	.563
14,40	.567
14,50	.571
14,70	.579
14,80	.583
14,90	.587
14,98	.590
15,00	.591
15,20	.598
15,24	.600
15,40	.606
15,50	.610
15,60	.614
15,90	.626
16,00	.630
16,20	.638
16,50	.650
16,60	.654
16,80	.661
17,00	.669
17,20	.677
17,30	.681
17,50	.689
17,60	.693
17,70	.697
17,78	.700
17,80	.701
17,90	.705
18,00	.709
18,10	.713
18,30	.721
18,60	.732
19,00	.748
19,20	.756

mm	inch
19,50	.768
19,70	.776
19,80	.780
19,90	.783
20,00	.787
20,10	.791
20,30	.799
20,32	.800
20,50	.807
21,00	.827
21,10	.831
21,70	.854
22,00	.866
22,10	.870
22,20	.874
22,30	.878
22,40	.882
22,50	.886
22,60	.890
22,80	.898
22,86	.900
22,90	.902
23,00	.906
23,10	.909
23,30	.917
23,50	.925
24,00	.945
24,30	.957
24,60	.969
24,90	.980
25,00	.984
25,10	.998
25,40	1.000
25,60	1.008
25,90	1.020
26,00	1.024
26,30	1.035
26,60	1.047
26,70	1.051
27,00	1.063
27,20	1.071
27,40	1.079
27,50	1.093
27,90	1.098
27,94	1.100
28,00	1.102
28,20	1.110
28,50	1.122
28,70	1.130
29,00	1.142
29,20	1.150
29,40	1.158
29,50	1.161
29,70	1.169
29,90	1.177
30,00	1.181
30,20	1.189
30,40	1.197
30,48	1.200
30,50	1.201
30,80	1.213

mm	inch
30,90	1.217
31,00	1.220
31,20	1.228
31,50	1.240
31,70	1.248
32,00	1.260
32,20	1.268
32,30	1.272
32,50	1.280
32,80	1.291
33,00	1.299
33,10	1.303
33,30	1.311
33,80	1.331
34,00	1.339
34,20	1.346
34,40	1.354
35,00	1.378
35,40	1.394
35,50	1.398
35,56	1.400
35,60	1.402
36,00	1.417
36,50	1.437
36,60	1.441
36,70	1.445
37,00	1.457
37,30	1.469
37,50	1.476
37,60	1.480
37,70	1.484
37,90	1.492
38,00	1.496
38,10	1.500
39,00	1.535
39,20	1.543
39,30	1.547
39,90	1.571
40,00	1.575
40,30	1.587
40,40	1.591
40,60	1.598
41,00	1.614
41,60	1.638
42,70	1.681
43,18	1.700
44,20	1.740
44,80	1.764
45,80	1.803
46,30	1.823
46,70	1.839
47,00	1.850
47,20	1.858
47,30	1.862
47,50	1.870
47,80	1.882
48,00	1.890
48,10	1.894
48,26	1.900
48,80	1.921
49,10	1.933

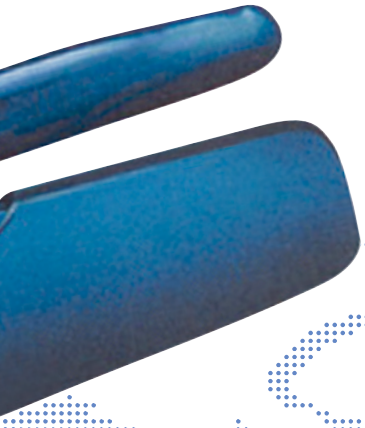
mm	inch
49,50	1.949
49,90	1.965
50,10	1.972
50,30	1.980
50,50	1.988
50,70	1.996
50,80	2.000
51,40	2.024
51,50	2.028
52,00	2.047
52,30	2.059
52,80	2.079
53,00	2.087
53,20	2.095
53,80	2.118
54,00	2.126
54,20	2.134
54,90	2.161
55,00	2.165
55,40	2.181
55,70	2.193
56,60	2.228
57,40	2.260
57,80	2.276
57,90	2.280
58,42	2.300
59,00	2.323
59,20	2.331
59,80	2.354
59,90	2.358
60,00	2.362
60,96	2.400
61,10	2.406
62,00	2.441
63,00	2.480
63,50	2.500
64,00	2.520
65,00	2.560
67,00	2.638
68,00	2.677
69,00	2.717
70,00	2.756
71,00	2.795
74,00	2.913
75,00	2.953
76,20	3.000
77,00	3.032
78,74	3.100
80,00	3.150
81,28	3.200
84,00	3.307
85,00	3.346
86,36	3.400
88,90	3.500
90,00	3.543
91,44	3.600
94,00	3.701
95,00	3.740
100,00	3.937
110,00	4.331
120,00	4.724

Section 10

Installation and assembly tools

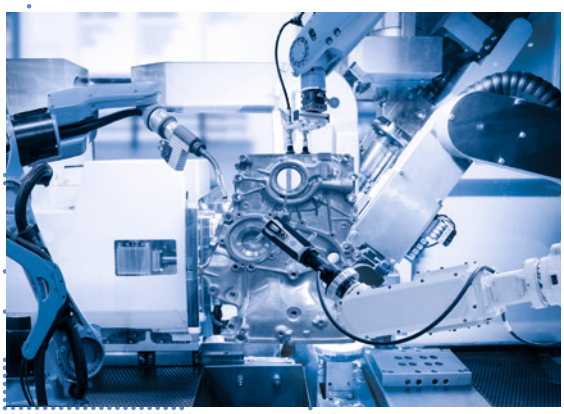


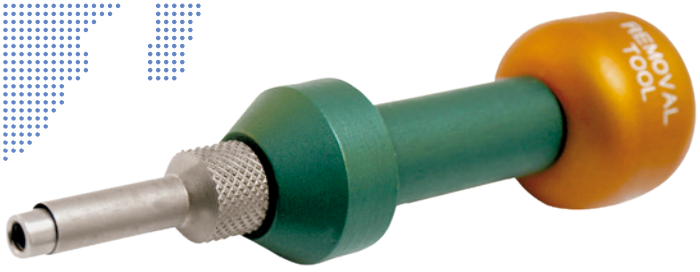








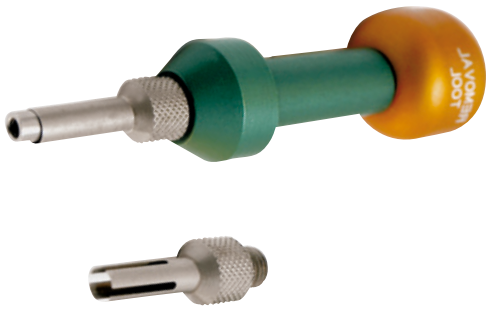



REMOVAL
TOOL





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

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

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)

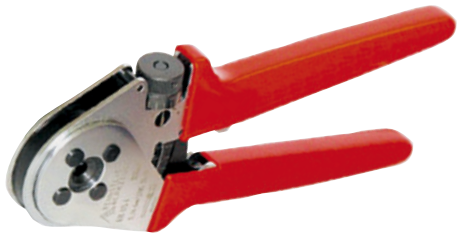
Part No. plug contacts	Part No. socket contacts	Part No. Crimp insert	Selector setting		
131J21019X	132J21019X	360X11049X	depending on wire use selector setting		
131J21029X	132J21029X	360X11049X			
131J21039X	132J21039X	360X11049X	AWG		Selector setting
131J23019X	132J23019X	360X11059X	24	→	5
131J31019X	132J31019X	360X11049X	26	→	5
131J31029X	132J31029X	360X11049X	28	→	4
131J33019X	132J33019X	360X11059X	30	→	3

Crimp tools and inserts

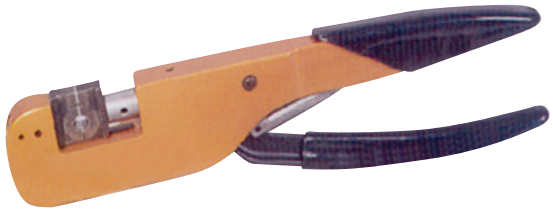
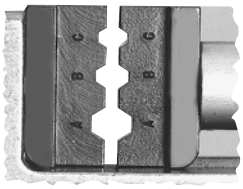
for D-SUB standard connectors with stamped contacts	Description	Part. No.
	Hand crimp tool	360X10409X
	Insert for above hand crimp tool	360X20029X

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	Description	Part. No.
	Hand crimp tool	360X12269X

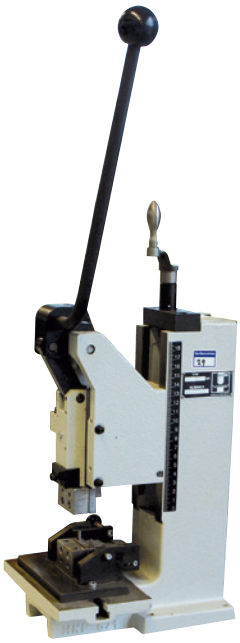
Crimp tools and inserts

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

Manually operated lever press + press in tool sets

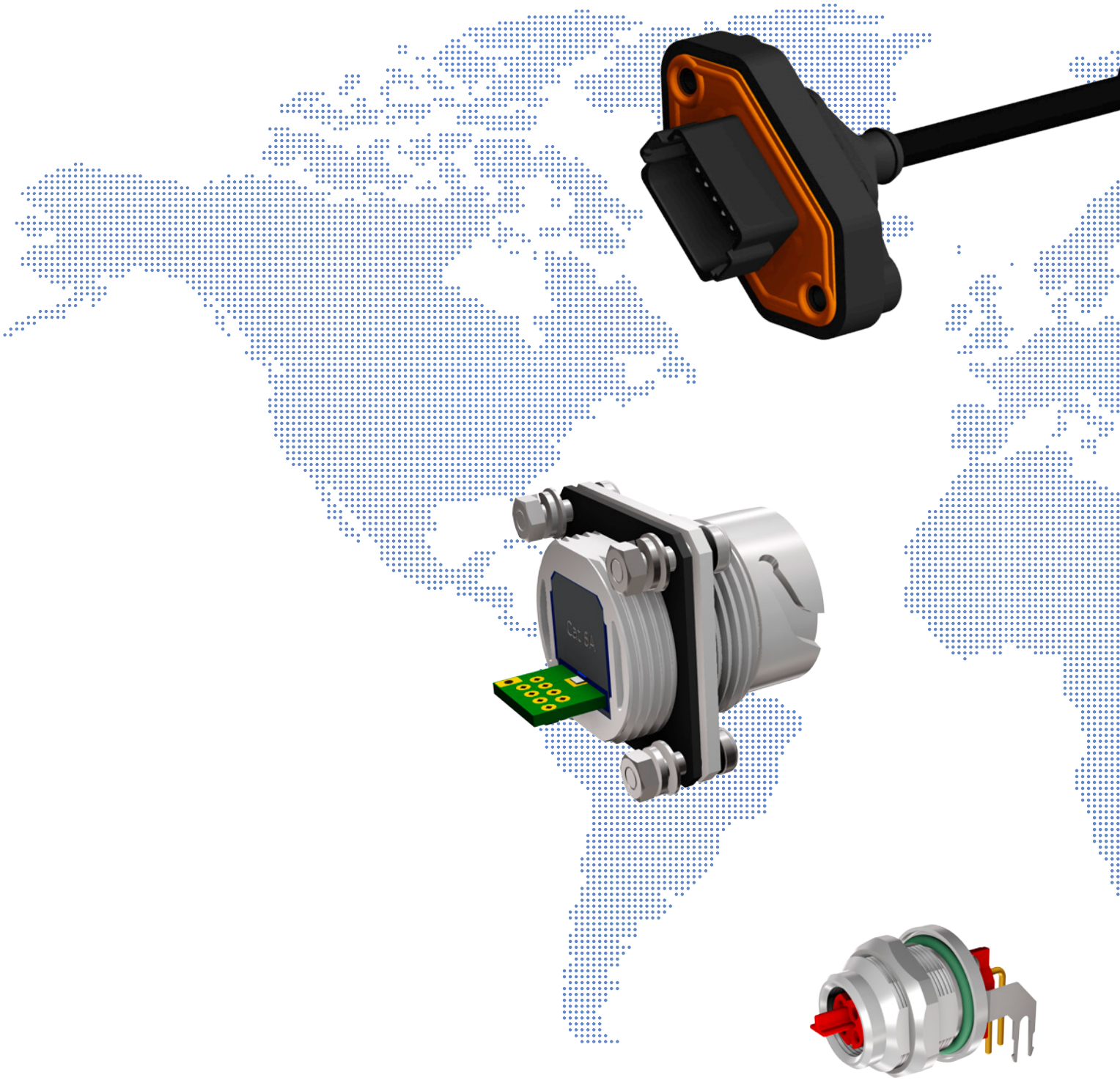
for D-SUB combination connectors with coax contacts (outer conductor)	Description	Part. No.
	Manually operated lever press	360X12369X
	Press in tool sets (Part No. see following chart)	

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

Section 11

Additional product categories



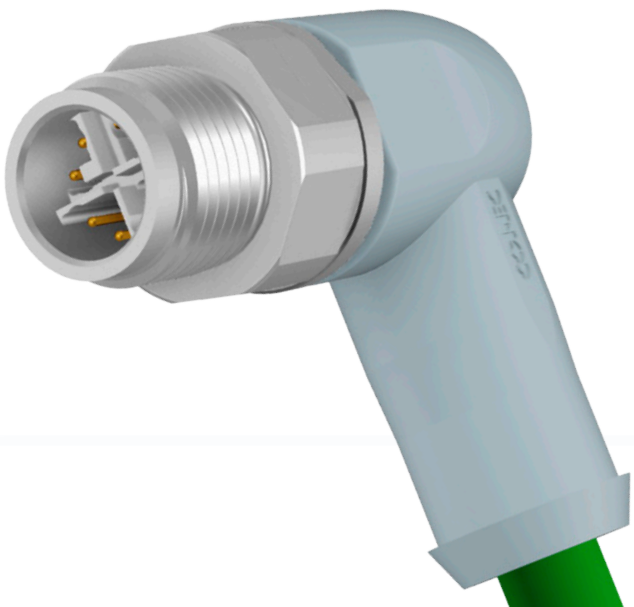












Additional CONEC product categories

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

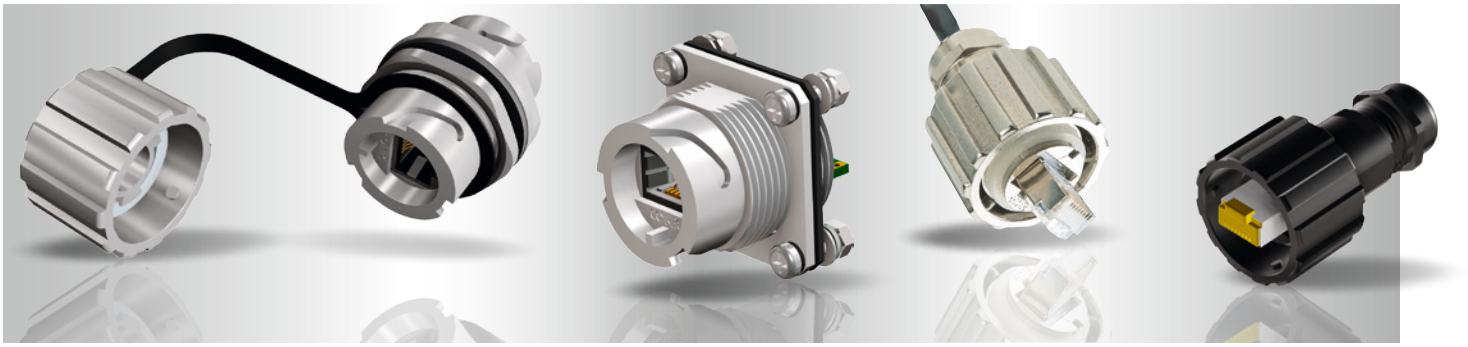
- Type: USB 3.0 Type A
- Type: USB 2.0 Type A, Mini USB Type A
- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet, M28
- Termination: soldering, PCB
- Front- and back panel mounting
- Adapters
- Degree of protection: IP67
- Degree of protection: IP20 (patch cord)

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-, srew-/snap-termination
- Degree of protection: IP67

Benefits

- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Application-related cable qualities

Circular connectors field attachable (signal transmission)



Details

- Size: M8x1, M12x1, 7/8", Rund24
- Coding: A
- Number of poles: 3, 4, 5, 8 , 2+PE, 3+PE, 4+PE, 6+PE
- Configuration: axial or angled, shielded or unshielded
- Termination: solder-, clamp-, screw-, crimp termination
- Degree of protection: IP67

Benefits

- Mating can be controlled with torque wrench
- Easy field attachable without special tools
- M12x1 cable cross section 1.5 mm² (Crimp max. 1.0 mm²)
- Vibration proof screw lock

Sockets (signal transmission)



Details

- Size: M8x1, M12x1, 7/8"
- Coding: A, B
- Number of poles: 3, 4, 5, 6, 8, 12, 2+PE, 4+PE
- Male socket, female socket
- Configuration: axial or angled
- Field attachable crimp version
- Assembly: Protection cap
- Front and back panel mounting
- Degree of protection: IP67

Benefits

- Colored contact insulators to avoid wrong plugging
- High number of poles with minimum space requirements
- Direct circuit board mounting
- Protection of unused interfaces

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-resistent up to 125 °C (HT)
- Degree of protection: IP65 (HT), IP67/IP69K (F&B)

Benefits

- Resistance to commercial aggressive cleaning agents
- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Use in constantly high ambient temperatures

Additional CONEC product categories

Connectors for BUS-Systems



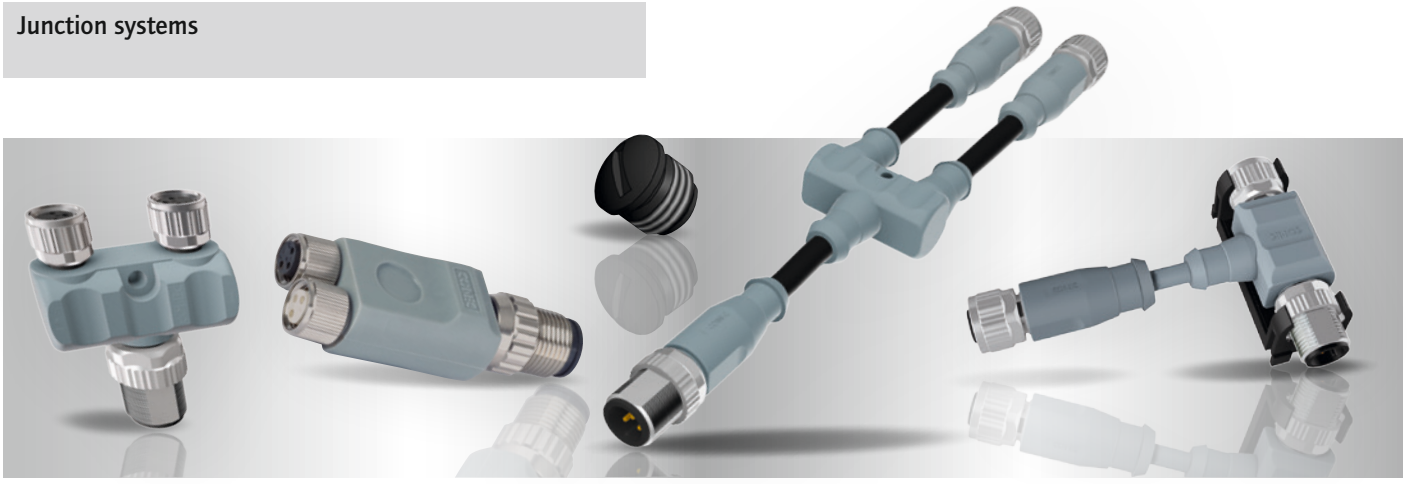
Details

- 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 cabeling in the field by field attachable variants

Junction systems



Details

- Size: M8x1, M12x1
- Number of poles: 3, 4, 5, 8, 4+PE
- 1:1 wiring
- Signal distribution
- Assembly: retaining clip, protection caps
- Degree of protection: IP67

Benefits

- Reduction of installation costs
- Space saving design
- Robust design with minimum space requirements
- Signals and power are transmitted by standardized plug systems
- Back-to-back assembly with retaining clip

DT, Superseal and ISOBUS series



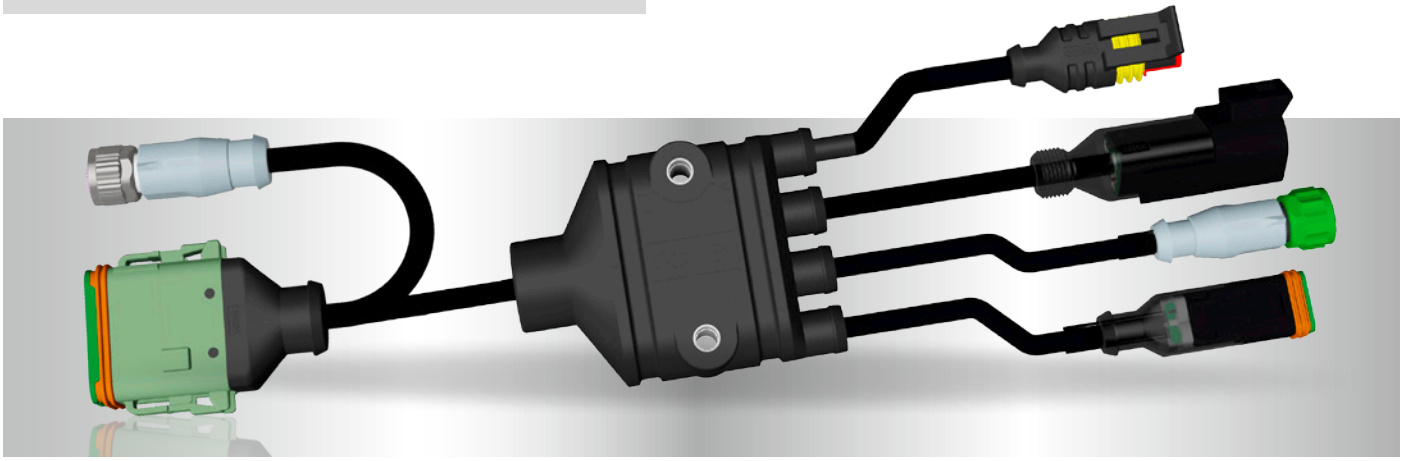
Details

- 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

Junction system Type S, M, L



Details

Type S
- 66 x 30 x 15 mm
- Cable inlets: 1, 2
- Cable outlets: 1, 2
- Max. Cable diameter inlets: 8 mm
- Max. Cable diameter outlets: 8 mm

Type M
- 66 x 40 x 15 mm
- Cable inlets: 1, 2, 3
- Cable outlets: 1, 2, 3
- Max. Cable diameter inlets: 11 mm
- Max. Cable diameter outlets: 8 mm

Typw L
- 76 x 55 x 22 mm
- Cable inlets: 1, 3, 4
- Cable outlets: 3, 4
- Max. Cable diameter inlets: 17 mm
- Max. Cable diameter outlets: 13 mm (3 exits), 8 mm (4 exits)

Benefits

- Reduction of installation costs
- Fully protected cable harness
- Space saving design
- Robust design with minimum space requirements
- Different mounting options
- Degree of protectin: IP67

Additional CONEC product categories

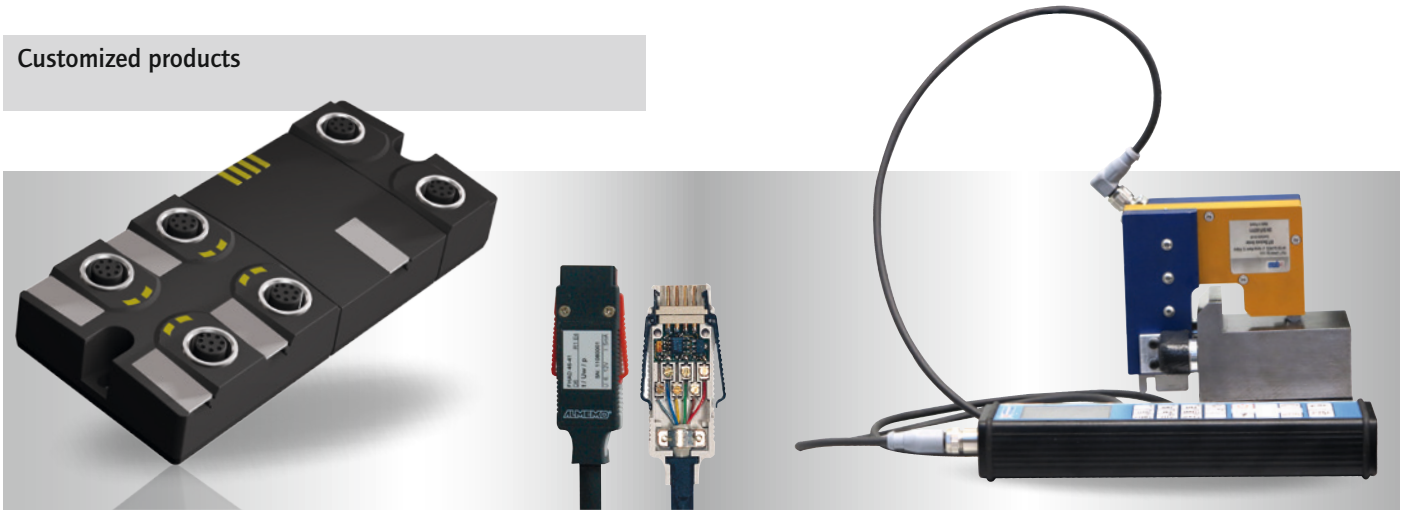
PCB connectors



Overview

- DIN EN 60603-2
- DIN 41617
- AdvancedTCA
- Flat cable connector
- CompactPCI
- PC104/PC104Plus

Customized products

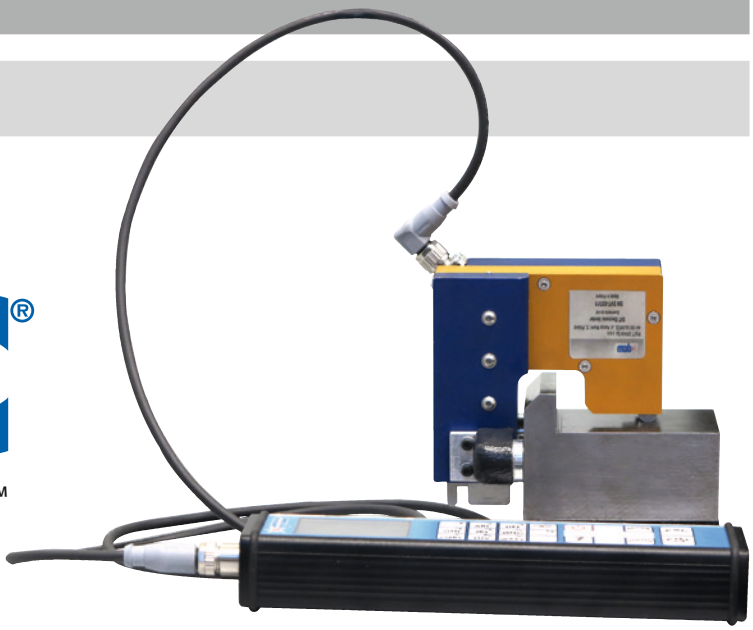


Many things are possible

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

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

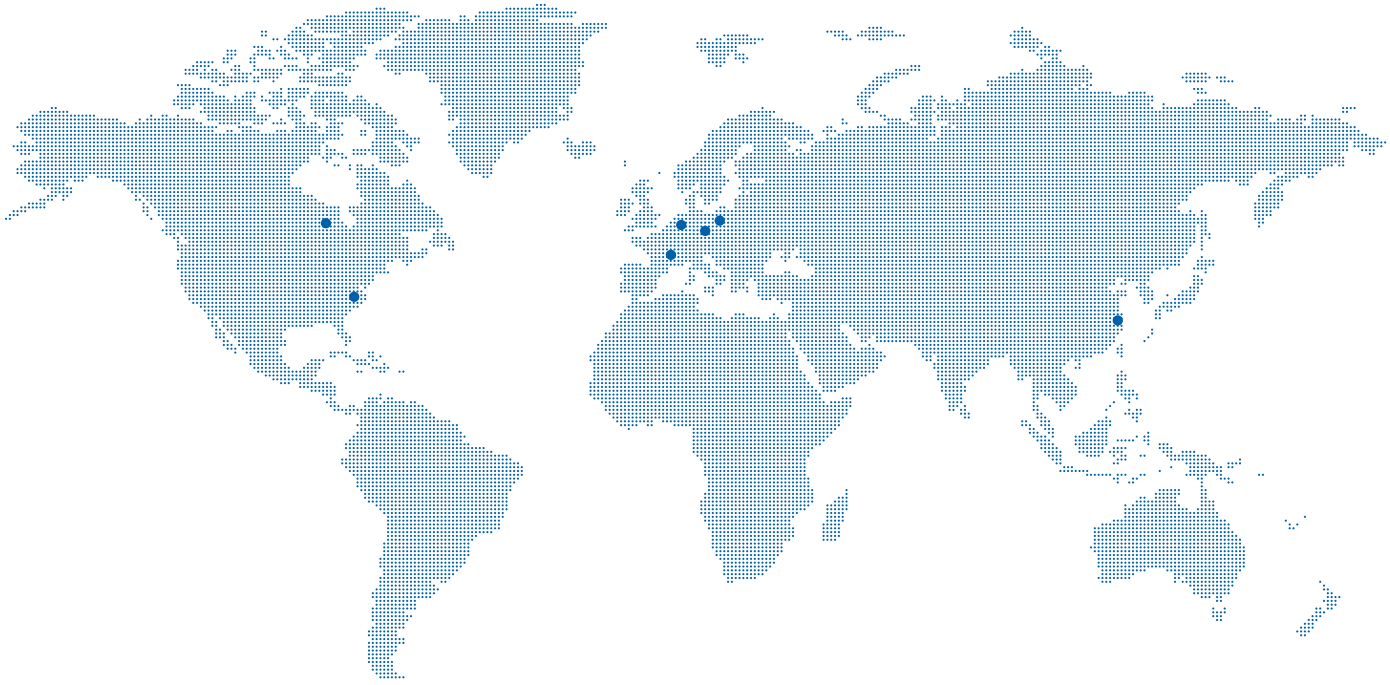




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