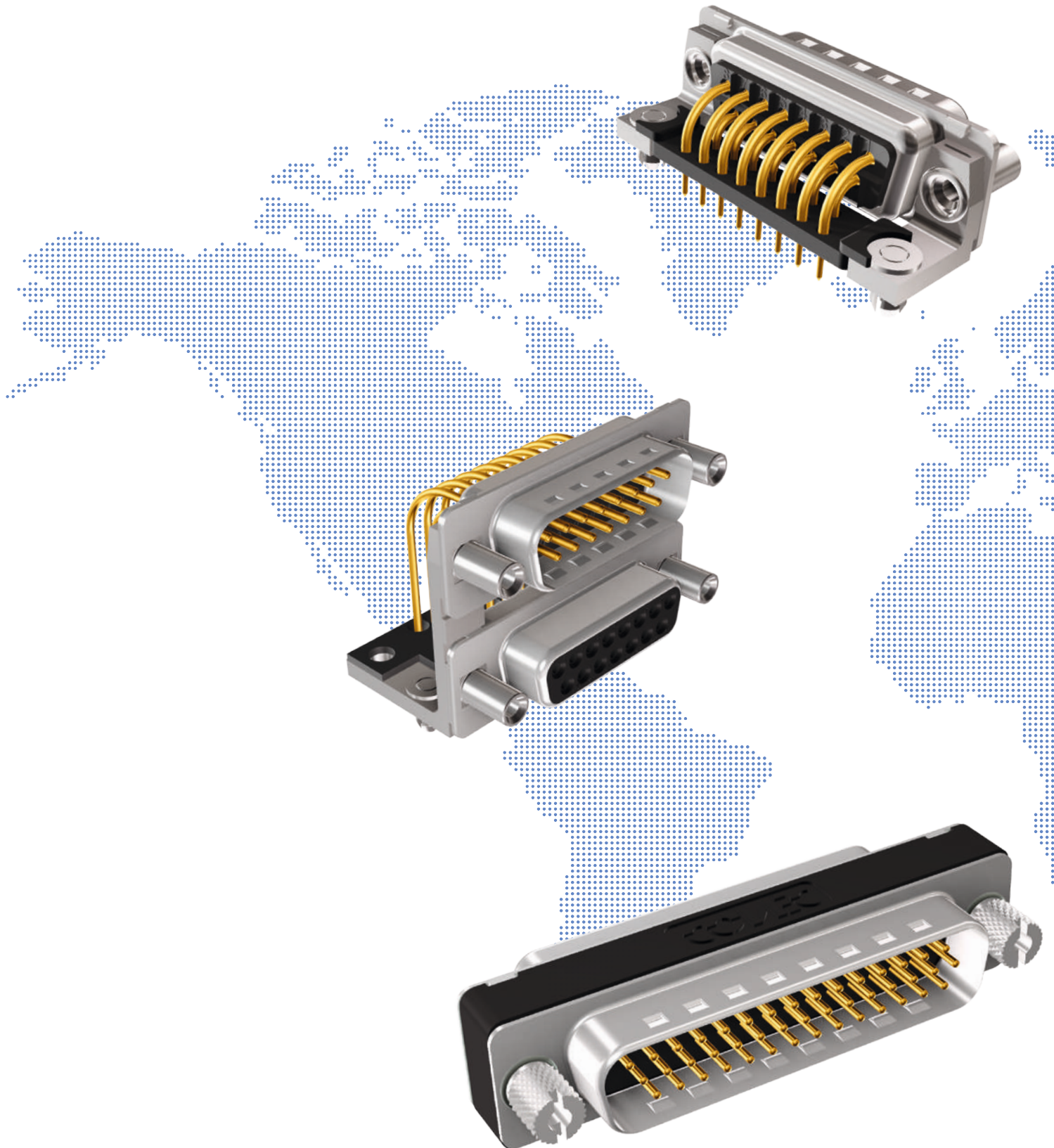
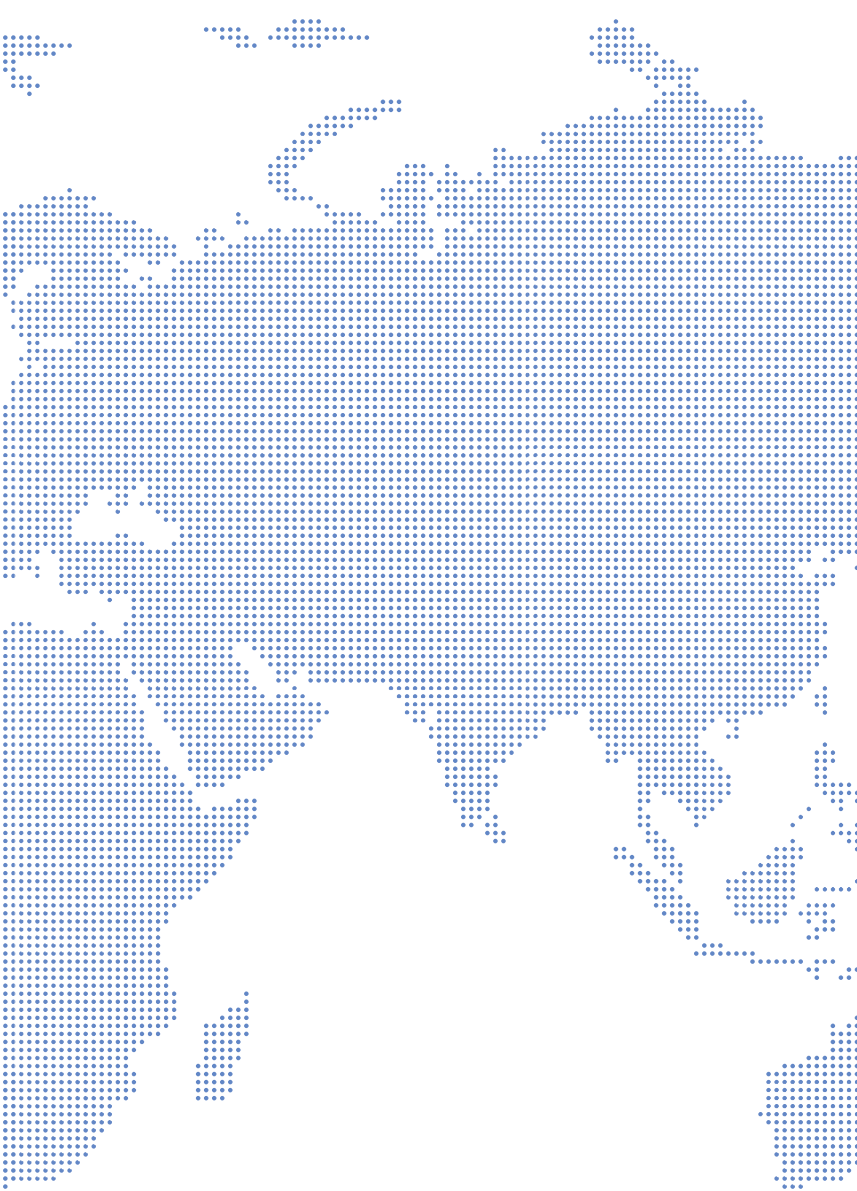
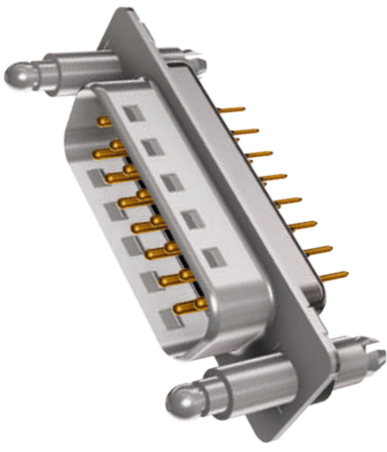


SECTION 1

D-SUB CONNECTORS





D-SUB CONNECTORS

Product specification

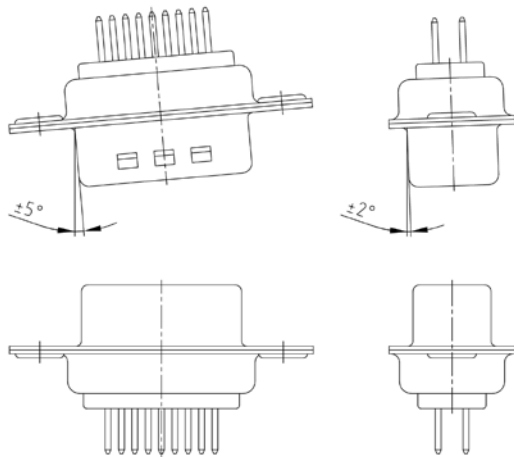
Basic material	D-SUB 9-, 15-, 25-, 37-, 50-pos.	D-SUB High Density 15-, 26-, 44-, 62-, 78-pos.
Contact	Copper alloy	
Contact plating	Gold over nickel	
Insulator	PBT GF UL 94 V-0	
Shell	Steel tin plated / nickel plated (on request brass tin plated or stainless steel)	
Technical Data		
Test voltage	1000 V, 50 Hz, for 1 Minute	
Working voltage	125 V AC/DC depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1	60 V AC/DC
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	3 A (UL, VDE) / 2.5 A (CSA)
Contact resistance	max. 10 mΩ prior to stressing ΔR max. 10 mΩ after stressing per IEC 60807-2	
Insulation resistance	≥ 5 GΩ	
Clearance and creepage distance	Contact - Contact ≥ 1.0 mm / 0.04" Contact - earth ≥ 1.2 mm / 0.047"	≥ 0.6 mm / 0.024"
Operating temperature	-55 °C to +125 °C	
Mating and unmating forces	9-pos. ≤ 30 N 15-pos. ≤ 50 N 25-pos. ≤ 83 N 37-pos. ≤ 123 N 50-pos. ≤ 167 N	15-pos. ≤ 50 N 26-pos. ≤ 84 N 44-pos. ≤ 120 N 62-pos. ≤ 170 N 78-pos. ≤ 200 N
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles	

Technical specifications are subject to change without notice.

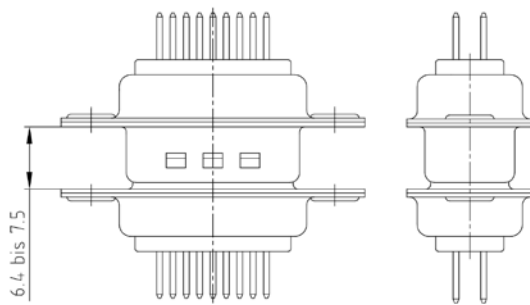
D-SUB CONNECTORS

Mating conditions

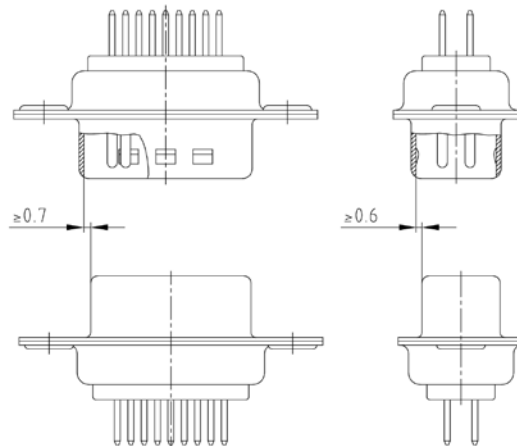
Max. tilt angle for connector mating



Range for safe contact

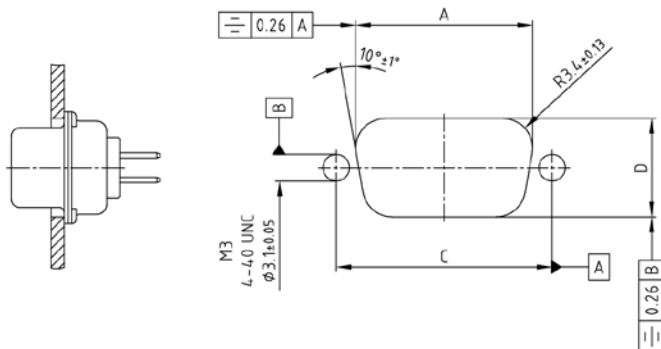


Lock-in range

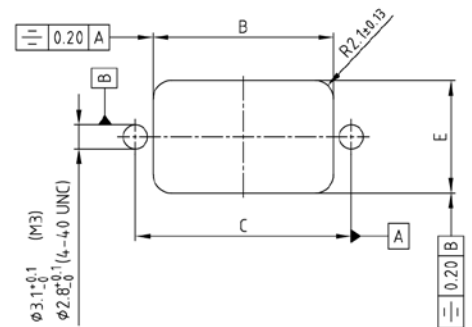


Panel cut-out

Back panel mounting



Front panel mounting



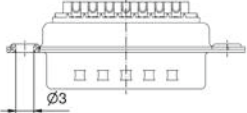
Shell size	No. of poles	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
1	9 15	20.50	20.90	25.00	11.40	13.00
2	15 26	28.80	29.20	33.30	11.40	13.00
3	25 44	42.50	42.90	47.04	11.40	13.00
4	37 62	59.10	59.40	63.50	11.40	13.00
5	50 78	56.30	57.00	61.10	14.10	15.80

Technical specifications are subject to change without notice.

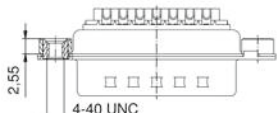
D-SUB CONNECTORS Standard

Solder cup
Precision machined contacts, AWG 20

Through-hole Ø 3 mm

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

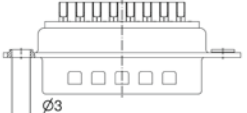
4-40 UNC threaded insert

 	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

Through-hole Ø 3 mm

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

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

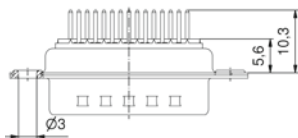
Shell: Steel nickel plated
Quality class 3 (A) = 50 mating cycles

D-SUB CONNECTORS Standard

Solder pin, straight
Precision machined contacts

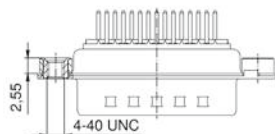
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

Through-hole Ø 3 mm



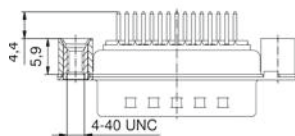
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A10069X	163A11119X
15					164A10079X	163A11129X
25					164A10089X	163A11139X
37					164A10099X	163A11149X
50					164A10109X	163A11159X

4-40 UNC threaded insert



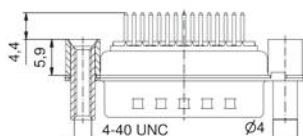
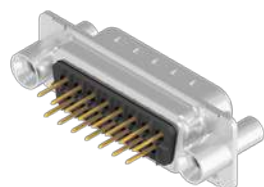
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A10319X	163A11369X
15					164A10329X	163A11379X
25					164A10339X	163A11389X
37					164A10349X	163A11399X
50					164A10359X	163A11409X

4-40 UNC threaded rear spacer



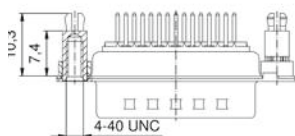
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A12029X	163A13629X
15					164A12039X	163A13639X
25					164A12049X	163A13649X
37					164A12059X	163A13659X
50					164A12069X	163A13669X

4-40 UNC front, threaded rear spacer



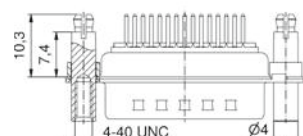
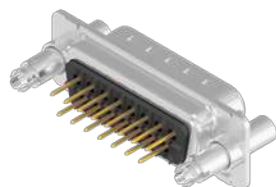
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A12129X	163A13729X
15					164A12139X	163A13739X
25					164A12149X	163A13749X
37					164A12159X	163A13759X
50					164A12169X	163A13769X

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



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

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

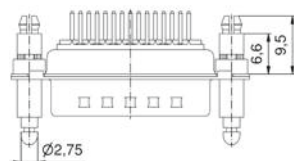


09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A16669X	163A16259X
15					164A16679X	163A16269X
25					164A16689X	163A16279X
37					164A16699X	163A16289X
50					164A16709X	163A16299X

D-SUB CONNECTORS Standard

CONEC SnapLock, Solder pin, straight Precision machined contacts

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



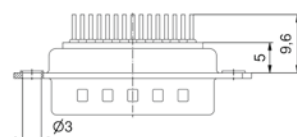
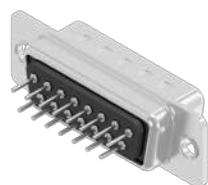
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	16-002143	16-002093
15					16-002153	16-002103
25					16-002163	16-002113
37					16-002173	16-002123
50					16-002183	16-002133

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

D-SUB CONNECTORS Standard

Solder pin, straight Stamped contacts

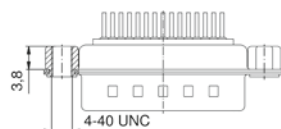
Through-hole Ø 3 mm



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

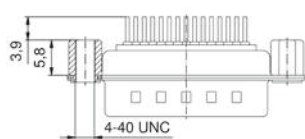
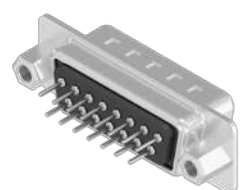
Shell: Steel nickel plated
Quality class 3 (A) = 50 mating cycles

4-40 UNC threaded insert



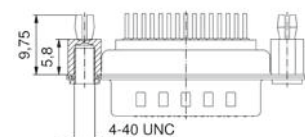
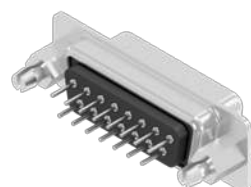
09	3	125		3	DLS1XS4AG06X	DLS1XP4AG06X
15					DLS2XS4AG06X	DLS2XP4AG06X
25					DLS3XS4AG06X	DLS3XP4AG06X
37					DLS4XS4AG06X	DLS4XP4AG06X
50					DLS5XS4AG06X	DLS5XP4AG06X

4-40 UNC threaded rear spacer



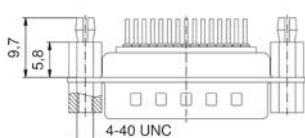
09	3	125		3	DLS1XS4AA37X	DLS1XP4AA37X
15					DLS2XS4AA37X	DLS2XP4AA37X
25					DLS3XS4AA37X	DLS3XP4AA37X
37					DLS4XS4AA37X	DLS4XP4AA37X
50					DLS5XS4AA37X	DLS5XP4AA37X

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



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

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

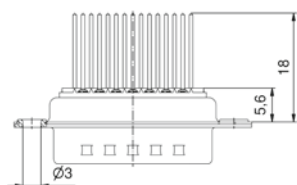


09	3	125		3	DLS1XS4AA39X	DLS1XP4AA39X
15					DLS2XS4AA39X	DLS2XP4AA39X
25					DLS3XS4AA39X	DLS3XP4AA39X
37					DLS4XS4AA39X	DLS4XP4AA39X
50					DLS5XS4AA39X	DLS5XP4AA39X

D-SUB CONNECTORS Standard

Wire wrap
Precision machined contacts

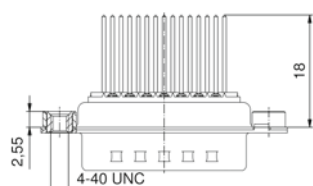
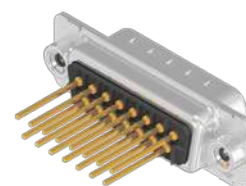
Through-hole Ø 3 mm



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

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

4-40 UNC threaded insert

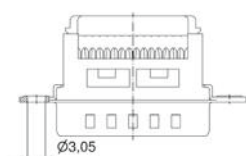


09	75 (UI) / 5 (CSA VDE)	125	E202784	3	164A10419X	163A11469X
15					164A10429X	163A11479X
25					164A10439X	163A11489X
37					164A10449X	163A11499X
50					164A10459X	163A11509X

D-SUB CONNECTORS Standard

IDC for flat cable
Stamped contacts, AWG 26-28

Through-hole Ø 3 mm



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

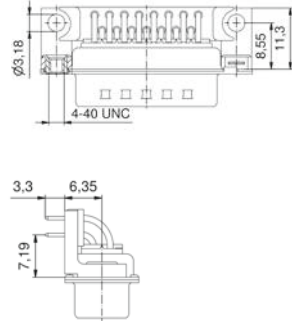
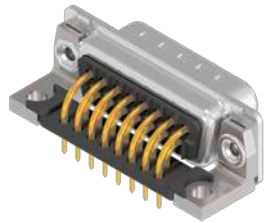
Shell: Steel nickel plated
Quality class 3 (A) = 50 mating cycles
Connector includes strain relief

D-SUB CONNECTORS Standard

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

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

4-40 UNC threaded insert



No. of poles

Current rating [A]

Working voltage [V]

UL-File

Quality class

Part No. Socket contact Part No. Plug contact

09

15

25

37

50

75 (UL) / 5 (CSA VDE)

125

E202784

3

164A11519X

163A13069X

164A11529X

163A13079X

164A11539X

163A13089X

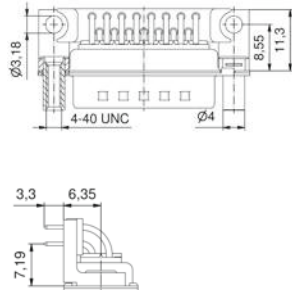
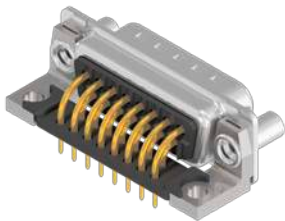
164A11549X

163A13099X

164A18969X

163A18549X

4-40 UNC front spacer



09

15

25

37

50

75 (UL) / 5 (CSA VDE)

125

E202784

3

164A16929X

163A16519X

164A16939X

163A16529X

164A16949X

163A16539X

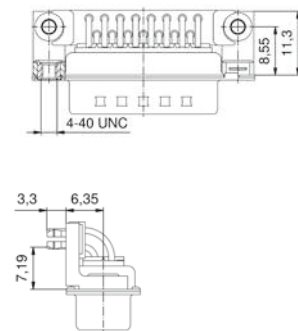
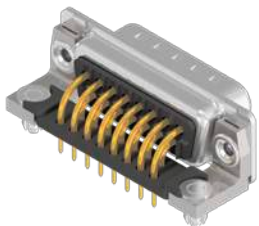
164A16959X

163A16549X

164A19019X

163A18589X

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



09

15

25

37

50

75 (UL) / 5 (CSA VDE)

125

E202784

3

164A17939X

163A17529X

164A17949X

163A17539X

164A17959X

163A17549X

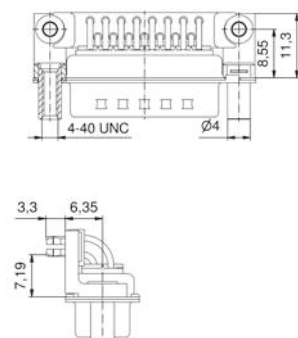
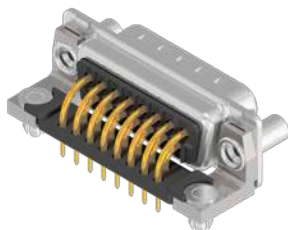
164A17969X

163A17559X

164A18989X

163A18569X

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



09

15

25

37

50

75 (UL) / 5 (CSA VDE)

125

E202784

3

164A19039X

163A18609X

164A19049X

163A18619X

164A19059X

163A18629X

164A19069X

163A18639X

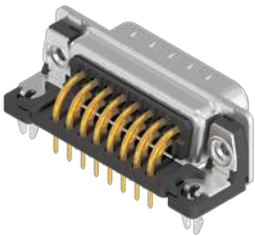
164A19079X

163A18649X

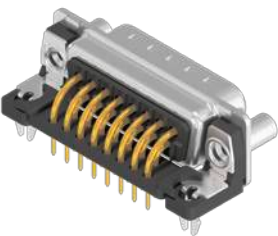
D-SUB CONNECTORS Standard

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

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

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

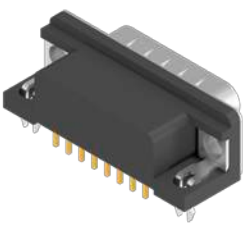
Clip for PCB 1.6 mm, 4-40 UNC front spacer

	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

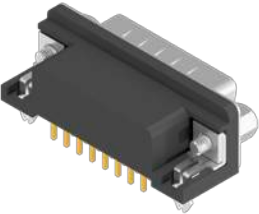
D-SUB CONNECTORS Standard

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

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

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

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

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

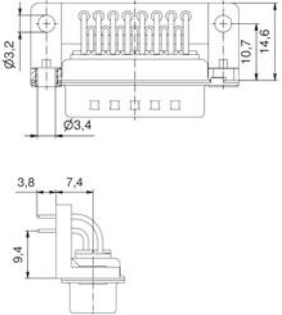
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

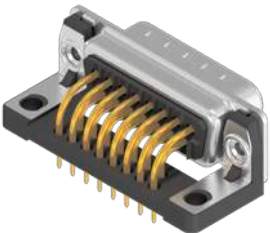
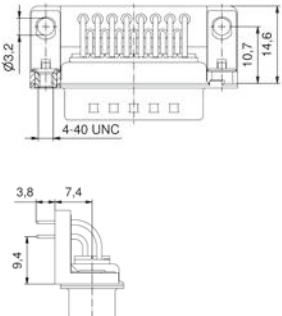
D-SUB CONNECTORS Standard

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

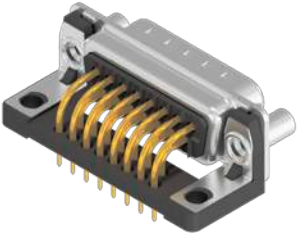
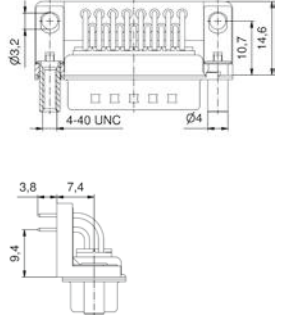
Through-hole Ø 3,4 mm

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 		09	75 (UI) / 5 (CSA VDE)	125	E202784	3	164A10669X	163A11719X
		15					164A10679X	163A11729X
		25					164A10689X	163A11739X
		37					164A10699X	163A11749X
		50					164A10709X	163A11759X

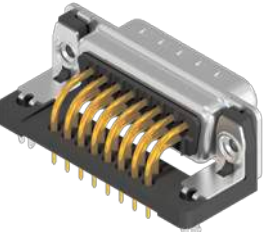
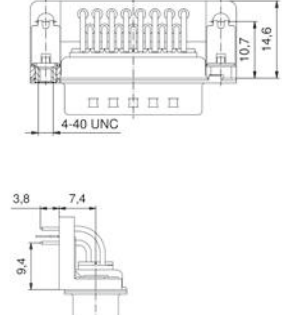
Grounding strap, 4-40 UNC threaded insert

 		09	75 (UI) / 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 (UI) / 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 (UI) / 5 (CSA VDE)	125	E202784	3	164A12969X	163A14489X
		15					164A12979X	163A14499X
		25					164A12989X	163A14509X
		37					164A12999X	163A14519X
		50					164A19139X	163A18709X

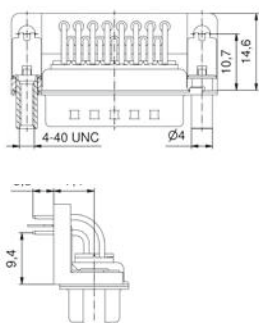
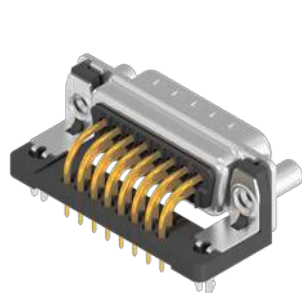
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

D-SUB CONNECTORS

Standard

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

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

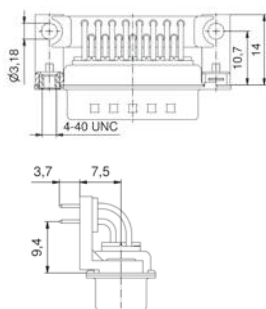
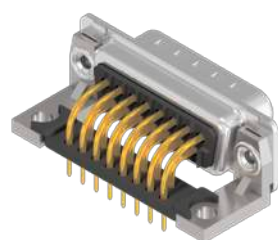


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A13089X	163A14609X
15					164A13099X	163A14619X
25					164A13109X	163A14629X
37					164A13119X	163A14639X
50					164A19159X	163A18729X

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

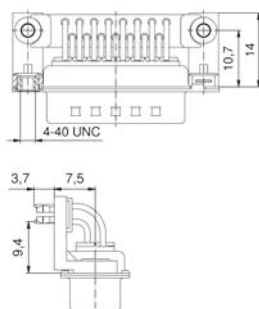
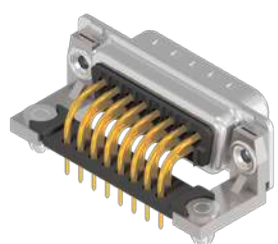
Solder pin, angled, .370"/9.4 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert



No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (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



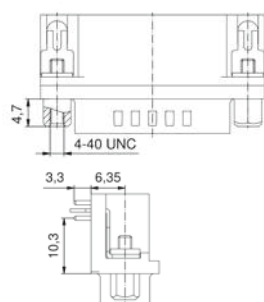
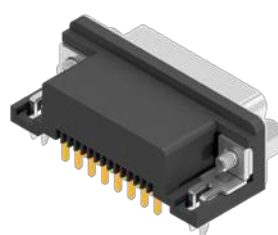
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	164A16769X	163A16359X
15					164A16779X	163A16369X
25					164A16789X	163A16379X
37					164A16799X	163A16389X
50					164A18759X	163A18339X

D-SUB CONNECTORS

Standard

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

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



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

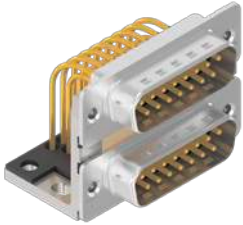
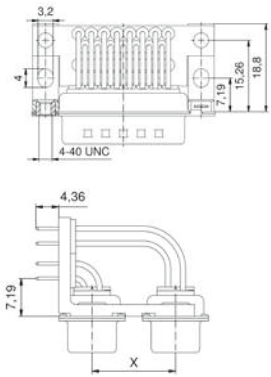
Shell: Steel nickel plated
Quality class 3 (A) = 50 mating cycles

D-SUB CONNECTORS

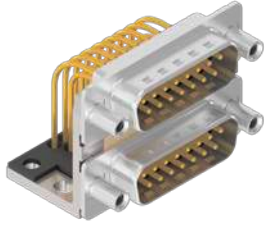
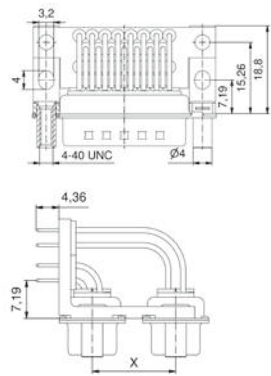
Dual Port

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

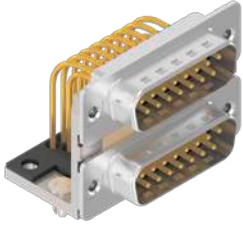
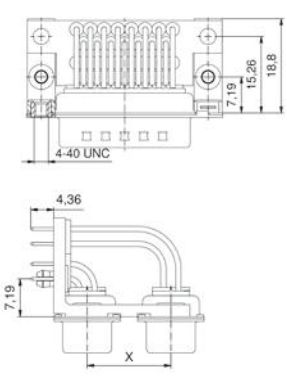
4-40 UNC threaded insert

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

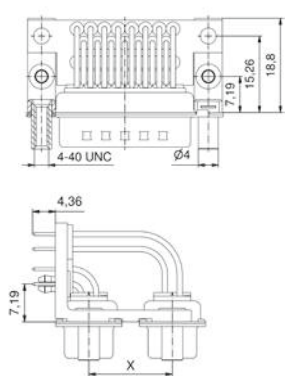
4-40 UNC front spacer

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

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

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

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

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

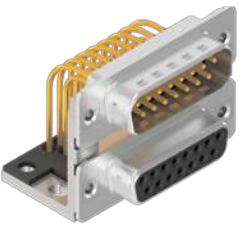
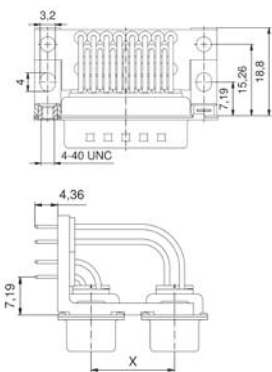
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

D-SUB CONNECTORS

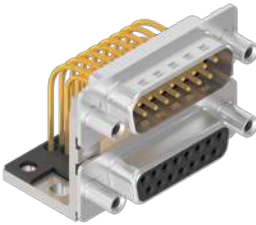
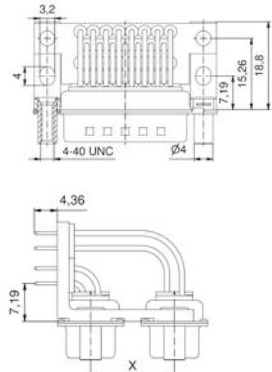
Dual Port

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

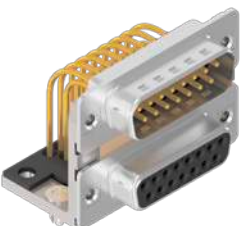
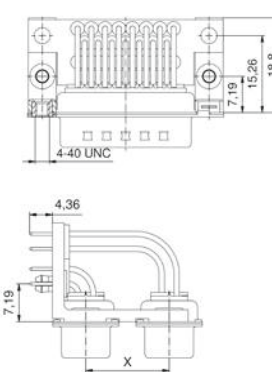
4-40 UNC threaded insert

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

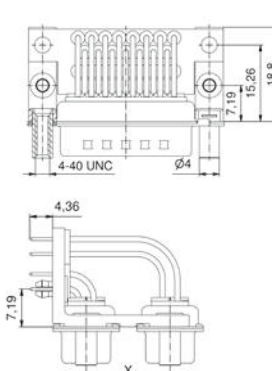
4-40 UNC front spacer

 	09/09	75 (UL) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A15399X
	15/15						163A15409X
	25/25						163A15419X
	37/37						163A15429X
	09/09					.750 19.05	163A15719X
	15/15						163A15729X
	25/25						163A15739X
	37/37						163A15749X

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

 	09/09	75 (UL) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A20009X
	15/15						163A20019X
	25/25						163A20029X
	37/37						163A20039X
	09/09					.750 19.05	163A19529X
	15/15						163A19539X
	25/25						163A19549X
	37/37						163A19559X

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

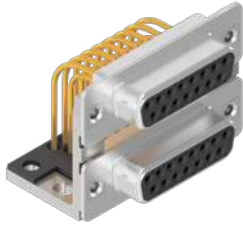
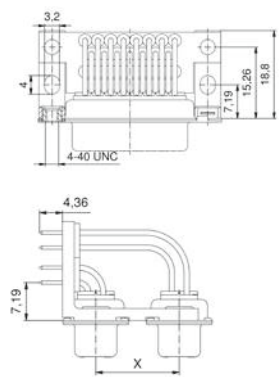
 	09/09	75 (UL) / 5 (CSA VDE)	125	E202784	3	.625 15.88	163A19369X
	15/15						163A19379X
	25/25						163A19389X
	37/37						163A19399X
	09/09					.750 19.05	163A19689X
	15/15						163A19699X
	25/25						163A19709X
	37/37						163A19719X

D-SUB CONNECTORS

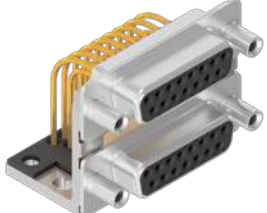
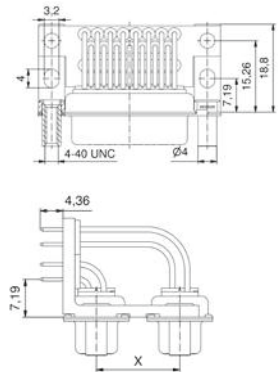
Dual Port

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

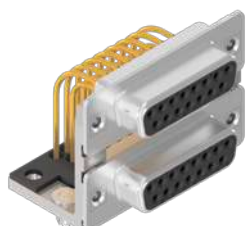
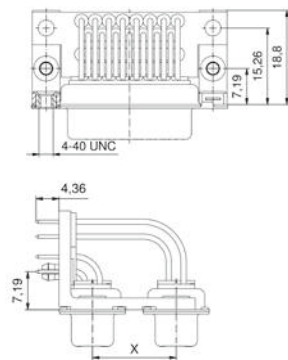
4-40 UNC threaded insert

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

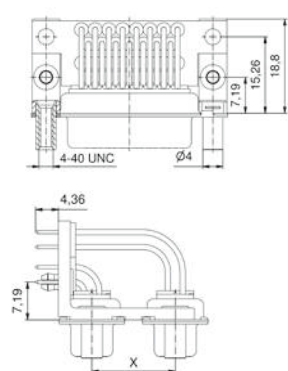
4-40 UNC front spacer

 	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

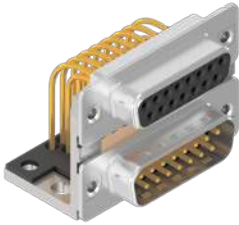
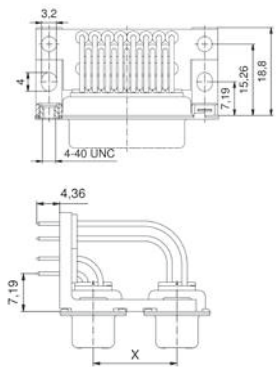
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

D-SUB CONNECTORS

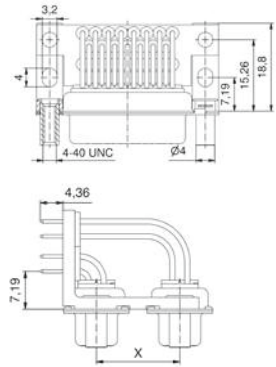
Dual Port

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

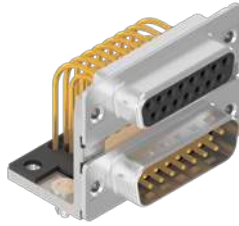
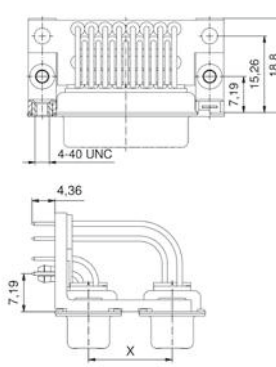
4-40 UNC threaded insert

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

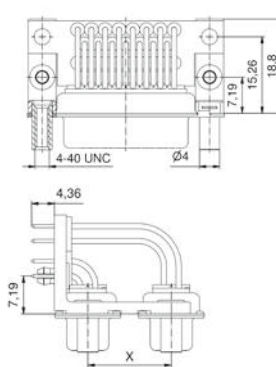
4-40 UNC front spacer

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

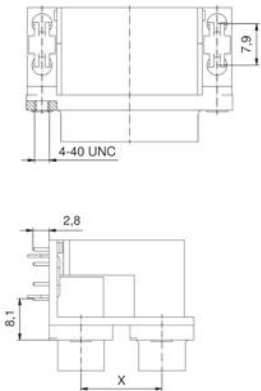
 	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Connector spacing X = [inches, mm]	Part No.
	09/09	75 (UI) / 5 (CSA VDE)	125	E202784	3	.625 15.88	164A19799X
	15/15						164A19809X
	25/25						164A19819X
	09/09					.750 19.05	164A20119X
	15/15						164A20129X
	25/25						164A20139X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

D-SUB CONNECTORS

Dual Port

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

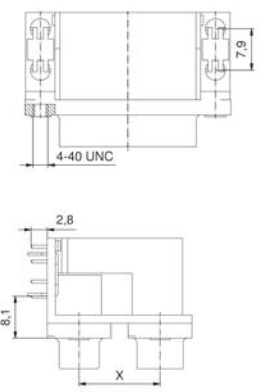
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

		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

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

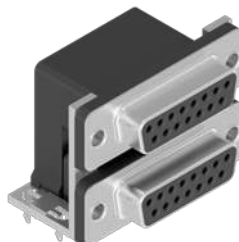
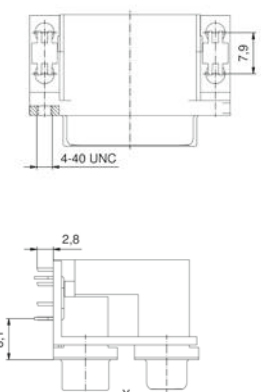
Plug upper - Socket bottom
Solder pin, angled, stamped contacts

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

		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

		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 bottom
Solder pin, angled, stamped contacts

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

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

D-SUB CONNECTORS

Standard

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

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	DSS1SXXG04X	DSS1XPXXG04X
	15			DSS2SXXG04X	DSS2XPXXG04X
	25			DSS3SXXG04X	DSS3XPXXG04X
	37			DSS4SXXG04X	DSS4XPXXG04X
	50			DSS5SXXG04X	DSS5XPXXG04X

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

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

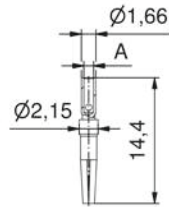
D-SUB CONNECTORS

Standard

Crimp-contacts, precision machined

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

Female contact



Quantity [pcs]

AWG

Current rating [A]

Crimp inner Ø A = [mm]

Quality class

Loose contacts

Part No.

500

24-20

7.5

1,12

3

✓

162A18709X

100

16-001653

500

28-24

5

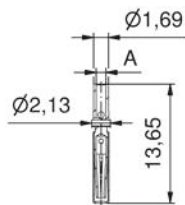
0,64

162A18719X

100

16-001663

Female contact closed entry



24-20

7.5

1,12

1

✓

132C15019X

100

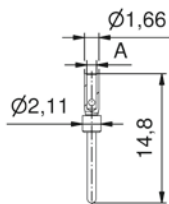
28-24

5

0,6

132C15029X

Male contact



500

24-20

7.5

1,12

3

✓

161A18299X

100

16-001673

500

28-24

5

0,64

161A18309X

100

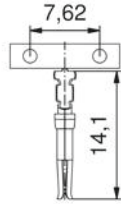
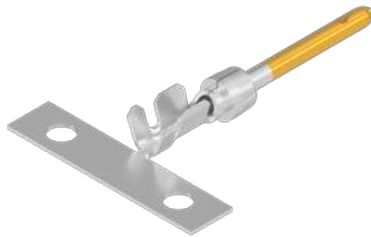
16-001683

D-SUB CONNECTORS Standard

Crimp-contacts, stamped

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

Female contact, AWG 24-20



Quantity [pcs]	Current rating [A]	Loose contacts	Small reel wheeled left	Big reel wheeled left	Big reel wheeled right	Quality class
500		✓				
	7.5		✓			
10000				✓		3
					✓	

Part No.

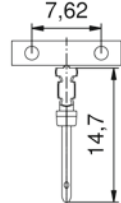
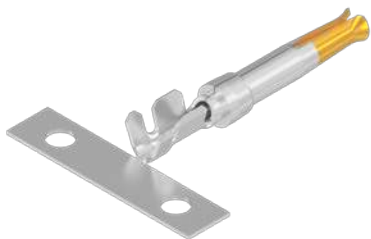
162A11849X

162A11839X

162A11819X

162A11829X

Male contact, AWG 24-20



500		✓				
	7.5		✓			
10000				✓		3
					✓	

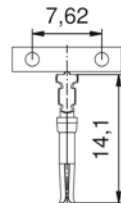
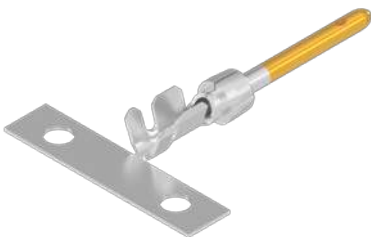
161A13399X

161A13389X

161A13369X

161A13379X

Female contact, AWG 28-24



500		✓				
	5		✓			
10000				✓		3
					✓	

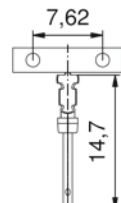
162A11889X

162A11879X

162A11859X

162A11869X

Male contact, AWG 28-24



500		✓				
	5		✓			
10000				✓		3
					✓	

161A13439X

161A13429X

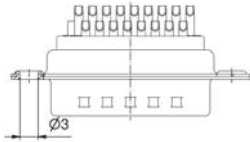
161A13409X

161A13419X

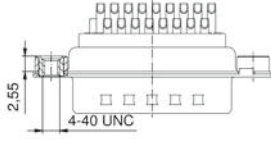
D-SUB CONNECTORS High Density

Solder cup
Precision machined contacts, AWG 22

Through-hole Ø 3 mm

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

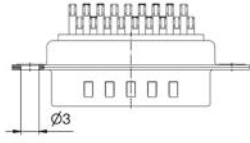
4-40 UNC threaded insert

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

D-SUB CONNECTORS High Density

Solder cup
Stamped contacts, AWG 22

Through-hole Ø 3 mm

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

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

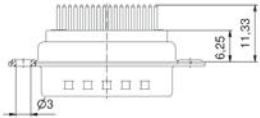
Shell: Steel nickel plated
Quality class 3 (A) = 50 mating cycles

D-SUB CONNECTORS

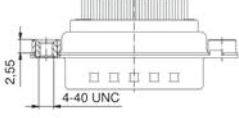
High Density

Solder pin, straight
Precision machined contacts

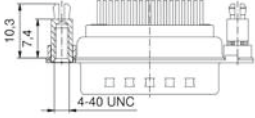
Through-hole Ø 3 mm

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

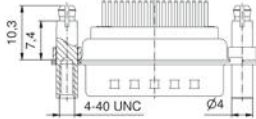
4-40 UNC threaded insert

 	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	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

 	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	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

 	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	164A17459X	163A17049X
	26					164A17469X	163A17059X
	44					164A17479X	163A17069X
	62					164A17489X	163A17079X
	78					164A17499X	163A17089X

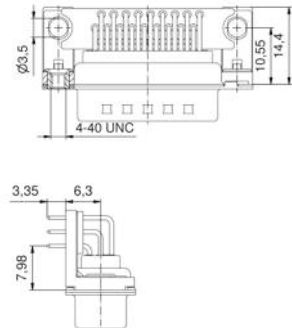
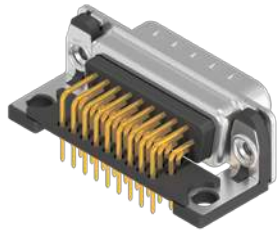
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

D-SUB CONNECTORS

High Density

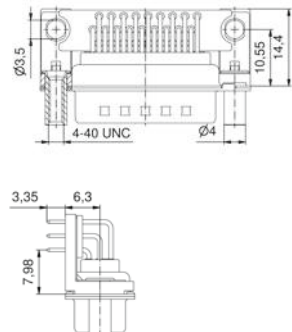
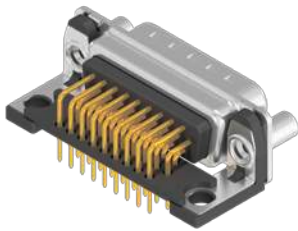
Solder pin, angled, .350" / 7.98 mm
Precision machined contacts, plastic bracket

Grounding strap, 4-40 UNC threaded insert



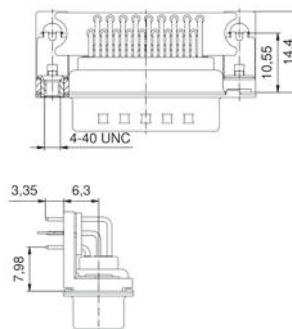
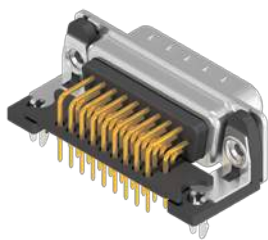
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A18019X	163A17609X
26					164A18029X	163A17619X
44					164A18039X	163A17629X
62					164A18049X	163A17639X

Grounding strap, 4-40 UNC front spacer



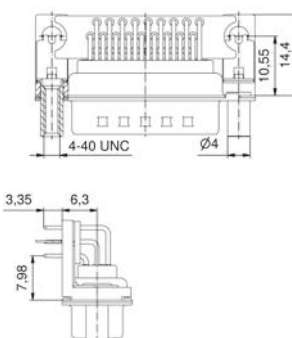
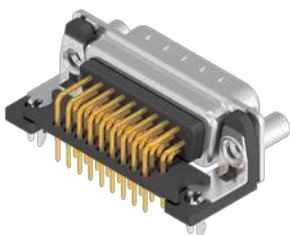
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A18099X	163A17689X
26					164A18109X	163A17699X
44					164A18119X	163A17709X
62					164A18129X	163A17719X

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



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

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



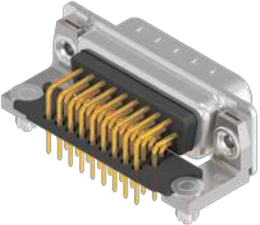
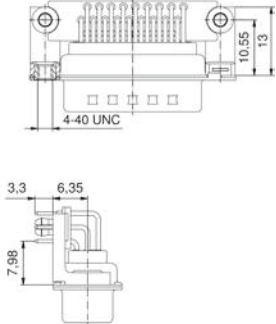
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A21009X	163A20569X
26					164A21019X	163A20579X
44					164A21029X	163A20589X
62					164A21039X	163A20599X

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

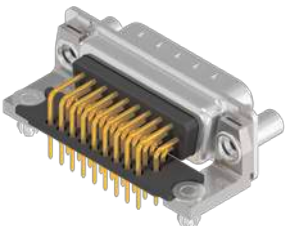
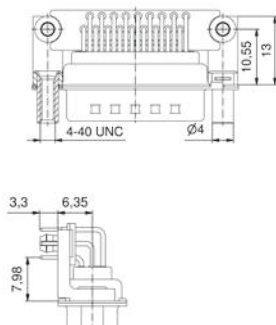
D-SUB CONNECTORS High Density

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

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

	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Shell: Steel tin plated Quality class 3 (A) = 50 mating cycles On request: • Brass tin plated or stainless steel • Quality class 1 (C) = 500 mating cycles • M3 thread	
						Part No. Socket contact	Part No. Plug contact
 	15	3 (UL VDE) / 2.5 (CSA)	60	E202784	3	164A18179X	163A17769X
	26					164A18189X	163A17779X
	44					164A18199X	163A17789X
	62					164A18209X	163A17799X
	78					164A18629X	163A18219X

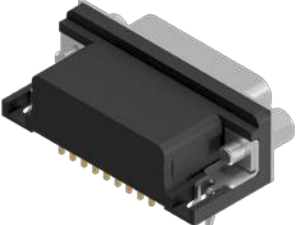
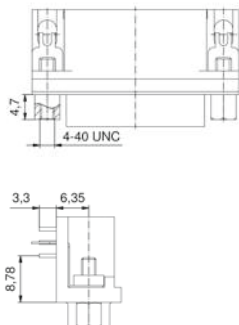
Clip for PCB 1.6 mm, 4-40 UNC front spacer

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

D-SUB CONNECTORS High Density

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

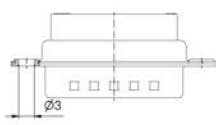
Clip for PCB 1.6 mm, 4-40 UNC front spacer

	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Shell: Steel nickel plated Quality class 3 (A) = 50 mating cycles	
						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

Through-hole Ø 3 mm

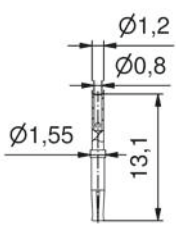
 	No. of poles	Working voltage [V]	UL-File	Part No. Socket contact	Part No. Plug contact
	15	60	E202784	164X11949X	163X10169X
	26			164X11959X	163X10179X
	44			164X11969X	163X10189X
	62			164X11979X	163X10199X
	78			164X11989X	163X10209X

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

D-SUB CONNECTORS High Density

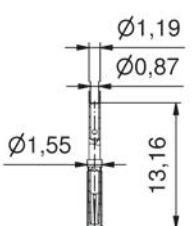
Crimp-contacts, precision machined

Female contact, AWG 28-22

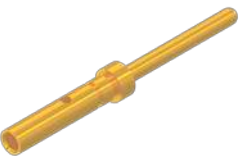
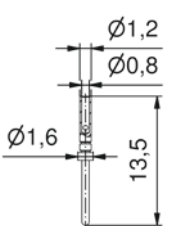
 	Quantity [pcs]	Current rating [A]	Loose contacts	Quality class	Part No.
	500	3	✓	3	162A18419X

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

Female contact closed entry, AWG 28-22

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

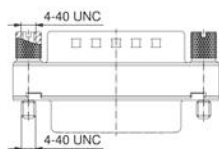
Male contact, AWG 28-22

 	Quantity [pcs]	Current rating [A]	Loose contacts	Quality class	Part No.
	500	3	✓	3	161A18009X

D-SUB CONNECTORS Standard

Interface adapter, connector saver
Plug connector - socket connector

4-40 UNC threaded lock



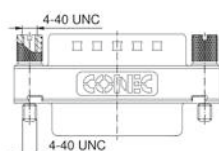
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
09	7.5 (UL) 5 (CSA) VDE	125	E202784	3	163A50009X
15					163A50019X
25					163A50029X
37					163A50039X
50					163A50049X

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

D-SUB CONNECTORS High Density

Interface adapter, connector saver
Plug connector - socket connector

4-40 UNC threaded lock



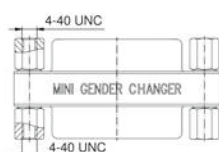
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	164A03399X
26					164A03919X
44					164A03929X
62					164A03939X
78					DAH5XAAAR04X

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

D-SUB CONNECTORS Standard

Interface adapter, gender changer
Socket connector - socket connector

4-40 UNC threaded lock

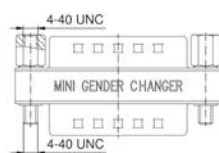


No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No.
09	3	125		3	320X12519X
15					320X12539X
25					320X10559X
37					320X12559X

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

Interface adapter, gender changer
Plug connector- plug connector

4-40 UNC threaded lock



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