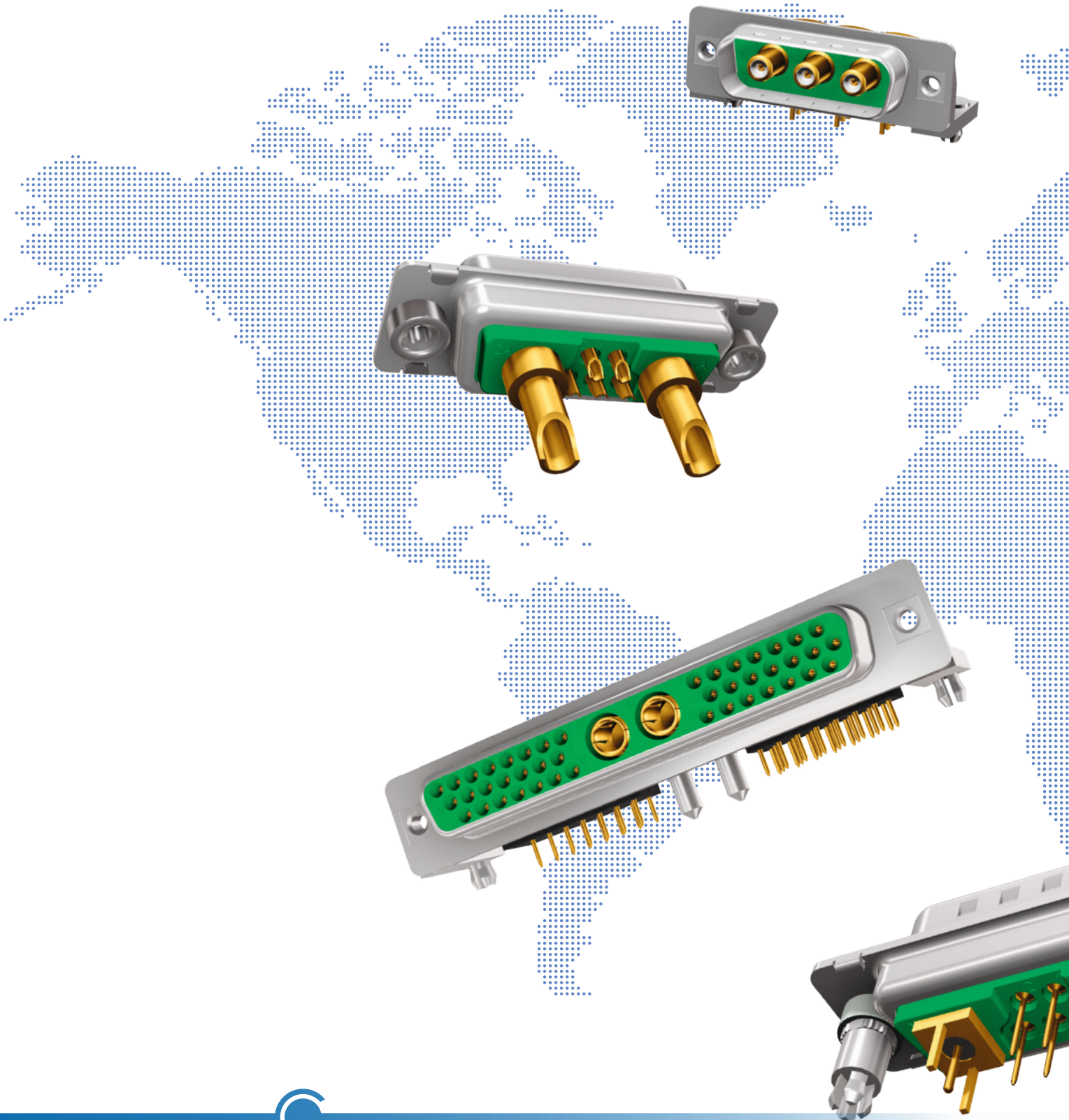
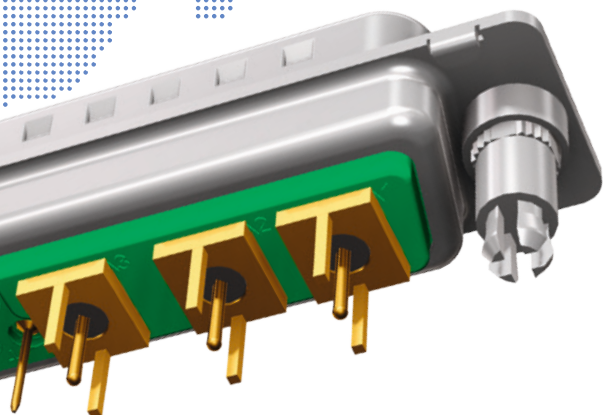
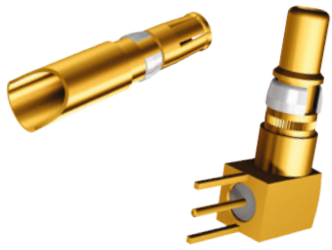


SECTION 2

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, 21W4A, 25W3, 27W2
 - 5 = 24W7, 36W4, 43W2, 47W1
- Empty positions add "0"= 003W3

Contact type

- P = Plug connector
- S = Socket connector

Surface/Quality class for SIGNAL contacts

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

Termination only for SIGNAL contacts

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

Termination for HIGH POWER- or COAXIAL contacts

Quality class 3/Quality class 1

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

Quality class 3/Quality class 1

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

Mounting style

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

OX = Standard

COMBINATION D-SUB CONNECTORS

Part Number Creator High Density

3 H19W1 S C M 4 1 A 1 O X

Shell type

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

Shell size and design

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

Contact type

- P = Plug connector
- S = Socket connector

Quality class for SIGNAL contacts

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

Termination only for SIGNAL contacts

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

Termination for HIGH POWER- or COAXIAL contacts

Quality class 3/Quality class 1

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

Quality class 3/Quality class 1

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

Quality class 1

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

Mounting style

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

- OX = Standard

COMBINATION D-SUB CONNECTORS

Product specification Standard

Basic material	Connector with signal contacts	Coaxial contacts	High power contacts	High voltage contacts
Contact	Copper alloy			
Contact plating	Gold over nickel			
Insulator (Connector) green standard/ black crimp	PBT GF UL 94 V-0			
Insulator (Contacts)		PTFE/PBTP/PI		PTFE
Shell	Steel tin plated (on request brass tin plated or stainless steel)			
Retaining clip	Copper alloy			
Technical Data				
Test voltage	1000 V, 50 Hz, 1 min.	750 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.	3.5 kV, 50 Hz, 1 min.
Working voltage	250 V AC/DC	250 V AC/DC	250 V AC/DC	max. 2.8 kV
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	2 A	10 - 40 A (UL)	1.5 A
Resistance between mated contacts	max. 10 mΩ	max. 2.7 mΩ	max. 1 mΩ	max. 2.7 mΩ
Insulation resistance	≥ 5 GΩ	≥ 10 GΩ	≥ 5 GΩ	≥ 2 x 10 ⁷ MΩ
Characteristic impedance		50/75 Ω		
Frequency range		0-2 GHz		
VSWR-value according MIL-C-39012		≤ 1.2 @ 1.2 GHz ≤ 1.3 @ 1.5 GHz ≤ 1,5 @ 2.0 GHz		
Operating temperature	- 55 °C to + 125 °C			
Insertion force per contact	3.4 N	7 N	7 N	5 N
Extraction force per contact	0.2 N	7 N	approx. 5 N	approx. 2.5 N
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles			

Technical specifications are subject to change without notice.

COMBINATION D-SUB CONNECTORS

Product specification High Density

Basic material	Connector with signal contacts	Coaxial contacts	High power contacts	High voltage contacts
Contact	Copper alloy			
Contact plating	Gold over nickel			
Insulator (Connector) green standard/ black crimp	PBT GF UL 94 V-0			
Insulator (Contacts)		PTFE/PBTP/PI		PTFE
Shell	Steel tin plated (on request brass tin plated or stainless steel)			
Retaining clip		Copper alloy		
Technical Data				
Test voltage	1000 V, 50 Hz, 1 min.	750 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.	3.5 kV, 50 Hz, 1 min.
Working voltage	60 V AC/DC	250 V AC/DC	250 V AC/DC	max. 2.8 kV
Current rating	3 A (UL, VDE) / 2.5 A (CSA)	2 A	10 - 40 A (UL)	1.5 A
Resistance between mated contacts	max. 10 mΩ	max. 2.7 mΩ	max. 1 mΩ	max. 2.7 mΩ
Insulation resistance	≥ 5 GΩ	≥ 10 GΩ	≥ 5 GΩ	≥ 2 x 10 ⁷ MΩ
Characteristic impedance		50/75 Ω		
Frequency range		0-2 GHz		
VSWR-value according MIL-C-39012		≤ 1,2 @ 1.2 GHz ≤ 1.3 @ 1.5 GHz ≤ 1.5 @ 2.0 GHz		
Operating temperature	- 55 °C to + 125 °C			
Insertion force per contact	3.4 N	7 N	7 N	5 N
Extraction force per contact	0.2 N	7 N	approx. 5 N	approx. 2.5 N
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles			

Technical specifications are subject to change without notice.

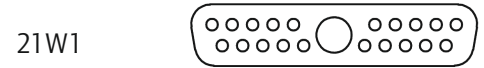
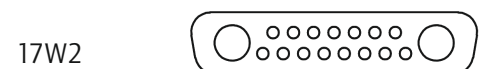
COMBINATION D-SUB CONNECTORS

Contact arrangements Mating side of socket connector

Shell size 1

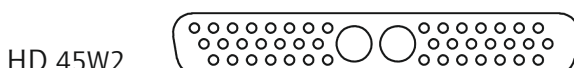
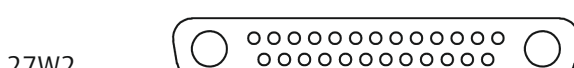
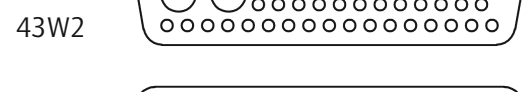
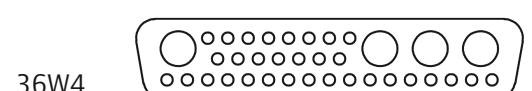
Shell size 2

Shell size 3



Shell size 4

Shell size 5

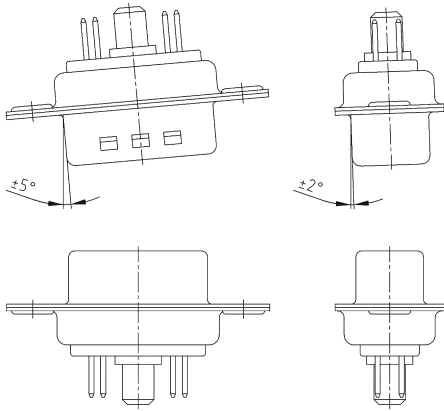


Connectors 3W3, 5W5 and 8W8 with female insulators: Socket contacts are fingerprobe safe according to UL 1950 and CSA 22.2.950.

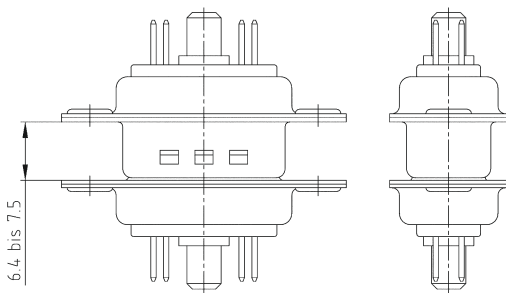
COMBINATION D-SUB CONNECTORS

Mating conditions

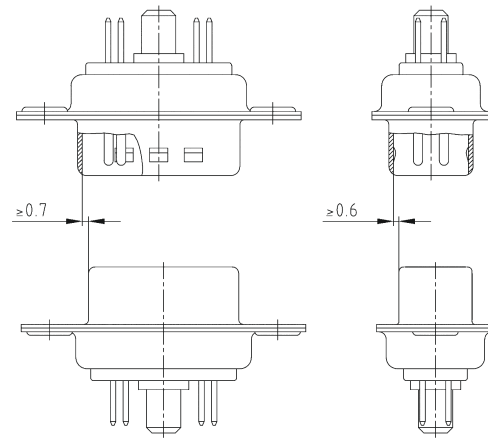
Max. tilt angle for connector mating



Range for safe contact

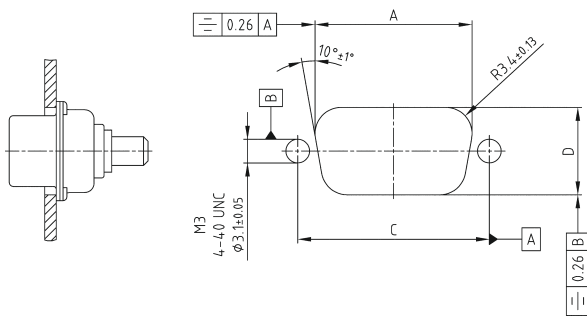


Lock-in range

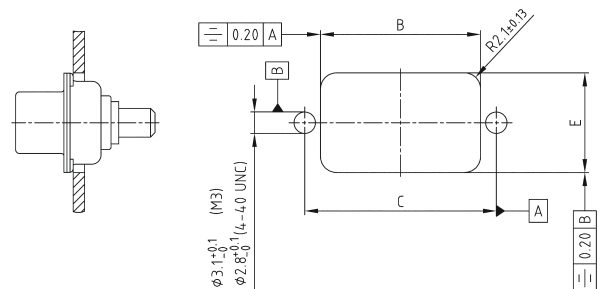


Panel cut-out

Back panel mounting



Front panel mounting



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

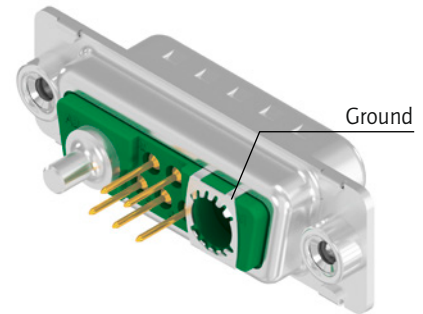
Technical specifications are subject to change without notice.

COMBINATION D-SUB CONNECTORS

Accessories

Grounding for coaxial contacts

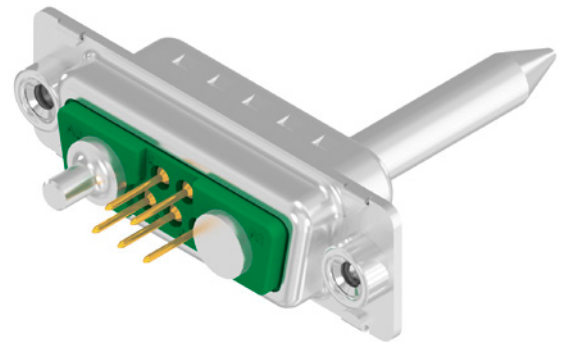
To optimize a perfect ground connection from the coaxial contact (outer conductor) to the metal shell. (Factory installed).



Guide post

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

Part Number
Guide post 160X11279X



Hole plug

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

Material: PBT GF UL 94 V-0
Colour: black

Part Number
Hole plug 160X10939X




COMBINATION D-SUB CONNECTORS With signal contacts

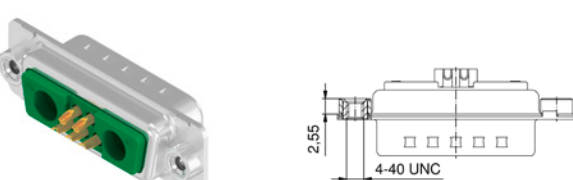
Solder cup
Precision machined contacts, AWG 20

Through-hole \varnothing 3 mm

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

	No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAM99A10X	3005W1PAM99A10X
	7W2					3007W2SAM99A10X	3007W2PAM99A10X
	9W4					3009W4SAM99A10X	3009W4PAM99A10X
	11W1					3011W1SAM99A10X	3011W1PAM99A10X
	13W3					3013W3SAM99A10X	3013W3PAM99A10X
	13W6					3013W6SAM99A10X	3013W6PAM99A10X
	17W2					3017W2SAM99A10X	3017W2PAM99A10X
	17W5					3017W5SAM99A10X	3017W5PAM99A10X
	21W1					3021W1SAM99A10X	3021W1PAM99A10X
	24W7					3024W7SAM99A10X	3024W7PAM99A10X
	25W3					3025W3SAM99A10X	3025W3PAM99A10X
	27W2					3027W2SAM99A10X	3027W2PAM99A10X
	36W4					3036W4SAM99A10X	3036W4PAM99A10X
	43W2					3043W2SAM99A10X	3043W2PAM99A10X
	47W1					3047W1SAM99A10X	3047W1PAM99A10X
	21WA4					321WA4SAM99A10X	321WA4PAM99A10X

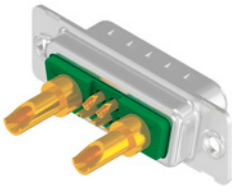
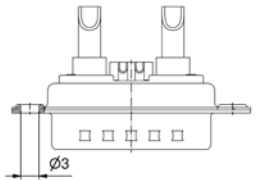
4-40 UNC threaded insert

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

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

Solder cup
Precision machined contacts, AWG 20

Through-hole Ø 3 mm

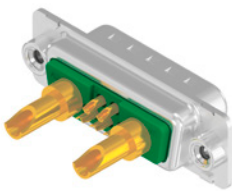
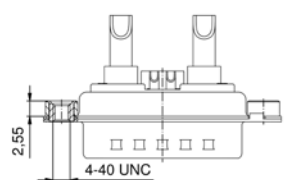
Through-hole Ø 3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 		5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAM62A10X	3005W1PAM62A10X
		7W2					3007W2SAM62A10X	3007W2PAM62A10X
		9W4					3009W4SAM62A10X	3009W4PAM62A10X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

For other Power contacts select code from spread sheet

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

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

4-40 UNC threaded insert

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

For other Power contacts select code from spread sheet

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

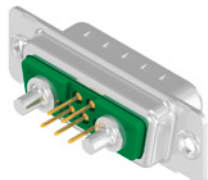
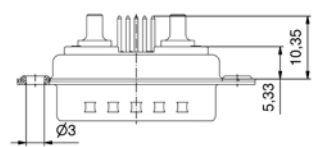
COMBINATION D-SUB CONNECTORS

With signal contacts & high power contacts 20 A

Solder pin, straight
Precision machined contacts

Through-hole \varnothing 3 mm

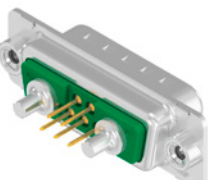
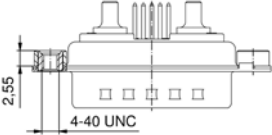
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

For other Power contacts select code from spread sheet

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

4-40 UNC threaded insert

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

For other Power contacts select code from spread sheet

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

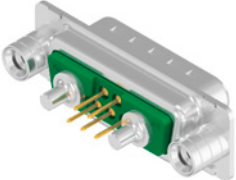
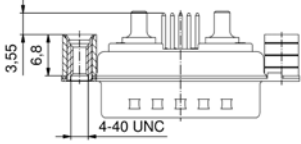
COMBINATION D-SUB CONNECTORS

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

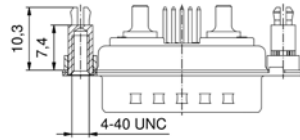
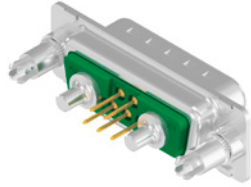
4-40 UNC threaded rear spacer			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 			5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR69A50X	3005W1PAR69A50X
			7W2					3007W2SAR69A50X	3007W2PAR69A50X
			9W4					3009W4SAR69A50X	3009W4PAR69A50X
			11W1					3011W1SAR69A50X	3011W1PAR69A50X
			13W3					3013W3SAR69A50X	3013W3PAR69A50X
			13W6					3013W6SAR69A50X	3013W6PAR69A50X
			17W2					3017W2SAR69A50X	3017W2PAR69A50X
			17W5					3017W5SAR69A50X	3017W5PAR69A50X
			21W1					3021W1SAR69A50X	3021W1PAR69A50X
			24W7					3024W7SAR69A50X	3024W7PAR69A50X
			25W3					3025W3SAR69A50X	3025W3PAR69A50X
			27W2					3027W2SAR69A50X	3027W2PAR69A50X
			36W4					3036W4SAR69A50X	3036W4PAR69A50X
			43W2					3043W2SAR69A50X	3043W2PAR69A50X
			47W1					3047W1SAR69A50X	3047W1PAR69A50X
			21WA4					321WA4SAR69A50X	321WA4PAR69A50X

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

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



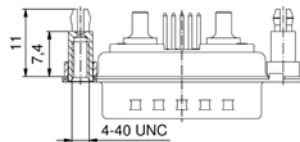
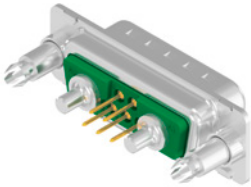
For other Power contacts select code from spread sheet

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

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

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

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



For other Power contacts select code from spread sheet

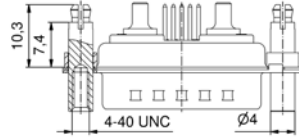
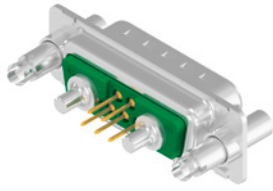
Code	Current rating	Diameter solder pin
69	20 A	2.60
71	30 A	3.18
72	40 A	3.75

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

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

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

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



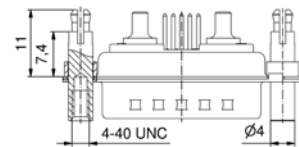
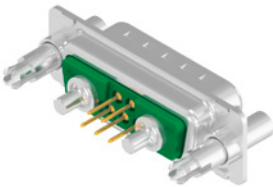
For other Power contacts select code from spread sheet

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

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

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

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



For other Power contacts select code from spread sheet

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

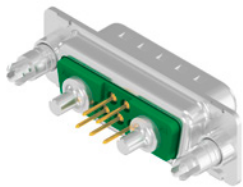
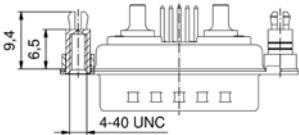
No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR69F40X	3005W1PAR69F40X
7W2					3007W2SAR69F40X	3007W2PAR69F40X
9W4					3009W4SAR69F40X	3009W4PAR69F40X
11W1					3011W1SAR69F40X	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

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

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

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

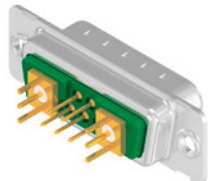
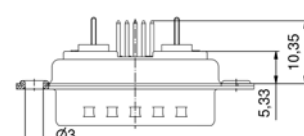
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

 			No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																		
								Part No. Socket contact	Part No. Plug contact																		
<p>For other Power contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr><td>68</td><td>20 A</td><td>1.95</td></tr> <tr><td>69</td><td>20 A</td><td>2.60</td></tr> <tr><td>70</td><td>20 A</td><td>2.85</td></tr> <tr><td>71</td><td>30 A</td><td>3.18</td></tr> <tr><td>72</td><td>40 A</td><td>3.75</td></tr> </tbody> </table>			Code	Current rating	Diameter solder pin	68	20 A	1.95	69	20 A	2.60	70	20 A	2.85	71	30 A	3.18	72	40 A	3.75	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR69C20X	3005W1PAR69C20X
			Code	Current rating	Diameter solder pin																						
			68	20 A	1.95																						
			69	20 A	2.60																						
			70	20 A	2.85																						
			71	30 A	3.18																						
			72	40 A	3.75																						
			7W2	3007W2SAR69C20X	3007W2PAR69C20X																						
			9W4	3009W4SAR69C20X	3009W4PAR69C20X																						
			11W1	3011W1SAR69C20X	3011W1PAR69C20X																						
			13W3	3013W3SAR69C20X	3013W3PAR69C20X																						
			13W6	3013W6SAR69C20X	3013W6PAR69C20X																						
			17W2	3017W2SAR69C20X	3017W2PAR69C20X																						
			17W5	3017W5SAR69C20X	3017W5PAR69C20X																						
			21W1	3021W1SAR69C20X	3021W1PAR69C20X																						
			24W7	3024W7SAR69C20X	3024W7PAR69C20X																						
25W3	3025W3SAR69C20X	3025W3PAR69C20X																									
27W2	3027W2SAR69C20X	3027W2PAR69C20X																									
36W4	3036W4SAR69C20X	3036W4PAR69C20X																									
43W2	3043W2SAR69C20X	3043W2PAR69C20X																									
47W1	3047W1SAR69C20X	3047W1PAR69C20X																									
21WA4	321WA4SAR69C20X	321WA4PAR69C20X																									

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

Solder pin, straight
Precision machined contacts

Through-hole Ø 3 mm

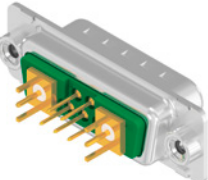
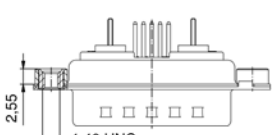
Through-hole Ø 3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAR76A10X	3005W1PAR76A10X	
	7W2					3007W2SAR76A10X	3007W2PAR76A10X	
	9W4					3009W4SAR76A10X	3009W4PAR76A10X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

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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

4-40 UNC threaded insert

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

For other coaxial contacts select code from spread sheet

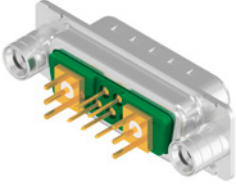
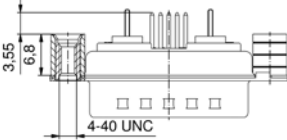
Code	Impedance
76	50 Ω
86	75 Ω

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

Solder pin, straight
Precision machined contacts

4-40 UNC threaded rear spacer

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

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

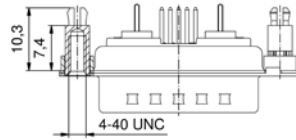
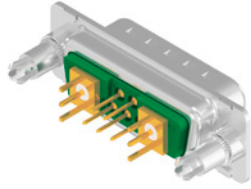
For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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

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

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



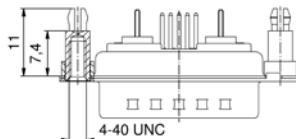
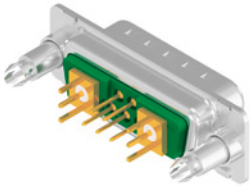
For other coaxial contacts select code from spread sheet

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

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

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



For other coaxial contacts select code from spread sheet

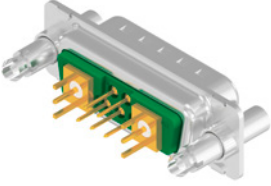
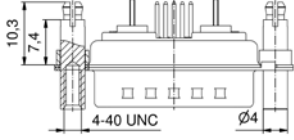
Code	Impedance
76	50 Ω
86	75 Ω

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

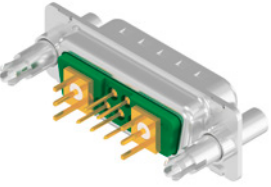
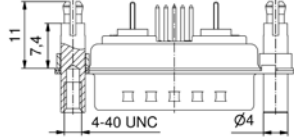
Solder pin, straight, precision machined contacts
Threaded rear spacer .291"/7.4 mm

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						
<p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>76</td> <td>50 Ω</td> </tr> <tr> <td>86</td> <td>75 Ω</td> </tr> </tbody> </table>		Code	Impedance	76	50 Ω	86	75 Ω	5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAR76F20X	3005W1PAR76F20X
		Code	Impedance											
		76	50 Ω											
		86	75 Ω											
		7W2	3007W2SAR76F20X	3007W2PAR76F20X										
		9W4	3009W4SAR76F20X	3009W4PAR76F20X										
		11W1	3011W1SAR76F20X	3011W1PAR76F20X										
		13W3	3013W3SAR76F20X	3013W3PAR76F20X										
		13W6	3013W6SAR76F20X	3013W6PAR76F20X										
		17W2	3017W2SAR76F20X	3017W2PAR76F20X										
		17W5	3017W5SAR76F20X	3017W5PAR76F20X										
		21W1	3021W1SAR76F20X	3021W1PAR76F20X										
		24W7	3024W7SAR76F20X	3024W7PAR76F20X										
		25W3	3025W3SAR76F20X	3025W3PAR76F20X										
		27W2	3027W2SAR76F20X	3027W2PAR76F20X										
		36W4	3036W4SAR76F20X	3036W4PAR76F20X										
		43W2	3043W2SAR76F20X	3043W2PAR76F20X										
47W1	3047W1SAR76F20X	3047W1PAR76F20X												
21WA4	321WA4SAR76F20X	321WA4PAR76F20X												

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

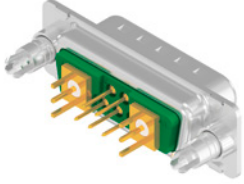
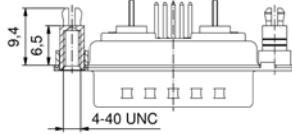
4-40 UNC front, threaded rear spacer clip for PCB 2.3 mm

 		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact						
<p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>76</td> <td>50 Ω</td> </tr> <tr> <td>86</td> <td>75 Ω</td> </tr> </tbody> </table>		Code	Impedance	76	50 Ω	86	75 Ω	5W1	75 (UL) / 5 (CSA VDE)	250	E228329	3	3005W1SAR76F40X	3005W1PAR76F40X
		Code	Impedance											
		76	50 Ω											
		86	75 Ω											
		7W2	3007W2SAR76F40X	3007W2PAR76F40X										
		9W4	3009W4SAR76F40X	3009W4PAR76F40X										
		11W1	3011W1SAR76F40X	3011W1PAR76F40X										
		13W3	3013W3SAR76F40X	3013W3PAR76F40X										
		13W6	3013W6SAR76F40X	3013W6PAR76F40X										
		17W2	3017W2SAR76F40X	3017W2PAR76F40X										
		17W5	3017W5SAR76F40X	3017W5PAR76F40X										
		21W1	3021W1SAR76F40X	3021W1PAR76F40X										
		24W7	3024W7SAR76F40X	3024W7PAR76F40X										
		25W3	3025W3SAR76F40X	3025W3PAR76F40X										
		27W2	3027W2SAR76F40X	3027W2PAR76F40X										
		36W4	3036W4SAR76F40X	3036W4PAR76F40X										
		43W2	3043W2SAR76F40X	3043W2PAR76F40X										
47W1	3047W1SAR76F40X	3047W1PAR76F40X												
21WA4	321WA4SAR76F40X	321WA4PAR76F40X												

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

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

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

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

For other coaxial contacts select code from spread sheet

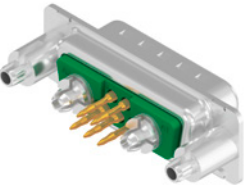
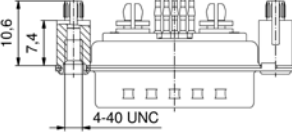
Code	Impedance
76	50 Ω
86	75 Ω

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

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

Press-fit, straight
Precision machined contacts

4-40 UNC rear press-fit spacer

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

For other Power contacts select code from spread sheet

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

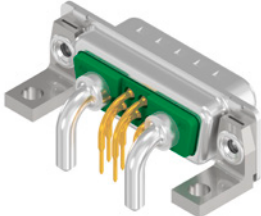
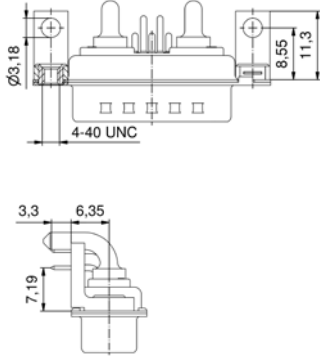
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

COMBINATION D-SUB CONNECTORS

With signal contacts & high power contacts 20 A

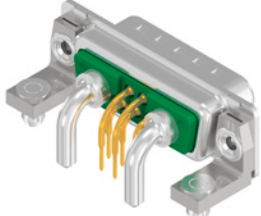
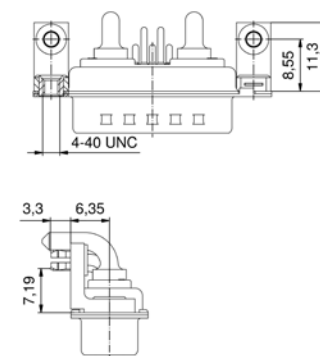
Solder pin, angled, 3.18"/7.19 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert

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	3005W1SAT73N20X
		7W2					3007W2SAT73N20X
		9W4					3009W4SAT73N20X
		11W1					3011W1SAT73N20X
		13W3					3013W3SAT73N20X
		13W6					3013W6SAT73N20X
		17W2					3017W2SAT73N20X
		17W5					3017W5SAT73N20X
		21W1					3021W1SAT73N20X
		24W7					3024W7SAT81N20X
		25W3					3025W3SAT73N20X
		27W2					3027W2SAT73N20X
		36W4					3036W4SAT81N20X
		43W2					3043W2SAT81N20X
		47W1					3047W1SAT81N20X
		21WA4					321WA4SAT73N20X

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

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

Clip for PCB 1.6 mm, 4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
 		5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAT73N40X
		7W2					3007W2SAT73N40X
		9W4					3009W4SAT73N40X
		11W1					3011W1SAT73N40X
		13W3					3013W3SAT73N40X
		13W6					3013W6SAT73N40X
		17W2					3017W2SAT73N40X
		17W5					3017W5SAT73N40X
		21W1					3021W1SAT73N40X
		24W7					3024W7SAT81N40X
		25W3					3025W3SAT73N40X
		27W2					3027W2SAT73N40X
		36W4					3036W4SAT81N40X
		43W2					3043W2SAT81N40X
		47W1					3047W1SAT81N40X
		21WA4					321WA4SAT73N40X

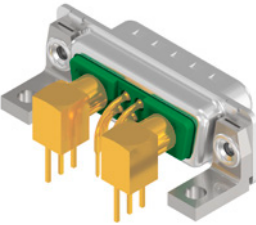
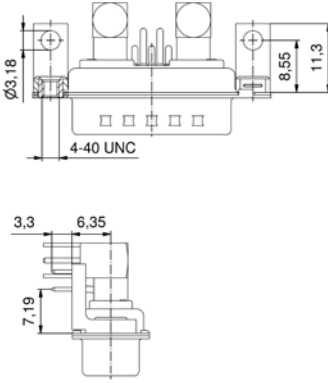
For other Power contacts select code from spread sheet			
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

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

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

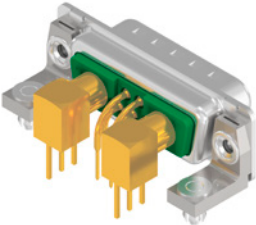
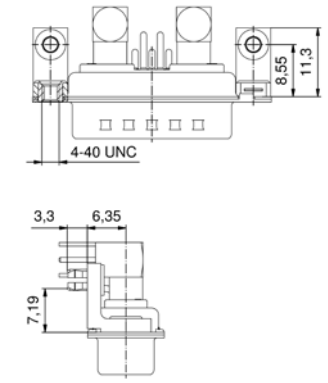
Solder pin, angled, 3.18"/7.19 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert

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	3005W1SAT78N20X
			7W2					3007W2SAT78N20X
			9W4					3009W4SAT78N20X
			11W1					3011W1SAT78N20X
			13W3					3013W3SAT78N20X
			13W6					3013W6SAT78N20X
			17W2					3017W2SAT78N20X
			17W5					3017W5SAT78N20X
			21W1					3021W1SAT78N20X
			24W7					3024W7SAT79N20X
			25W3					3025W3SAT78N20X
			27W2					3027W2SAT78N20X
			36W4					3036W4SAT79N20X
			43W2					3043W2SAT79N20X
			47W1					3047W1SAT79N20X
			21WA4					321WA4SAT78N20X

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

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

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	3005W1SAT78N40X
			7W2					3007W2SAT78N40X
			9W4					3009W4SAT78N40X
			11W1					3011W1SAT78N40X
			13W3					3013W3SAT78N40X
			13W6					3013W6SAT78N40X
			17W2					3017W2SAT78N40X
			17W5					3017W5SAT78N40X
			21W1					3021W1SAT78N40X
			24W7					3024W7SAT79N40X
			25W3					3025W3SAT78N40X
			27W2					3027W2SAT78N40X
			36W4					3036W4SAT79N40X
			43W2					3043W2SAT79N40X
			47W1					3047W1SAT79N40X
			21WA4					321WA4SAT78N40X

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

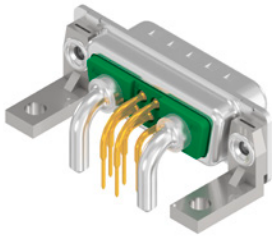
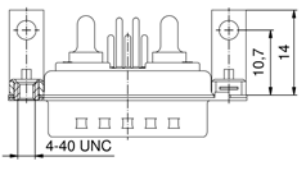
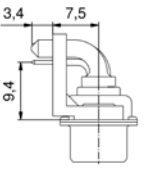
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

COMBINATION D-SUB CONNECTORS

With signal contacts & high power contacts 20 A

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

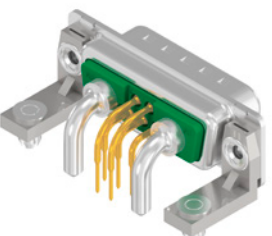
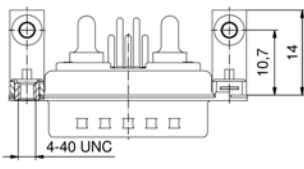
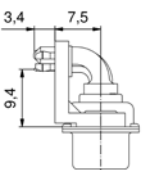
4-40 UNC threaded insert

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

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

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

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

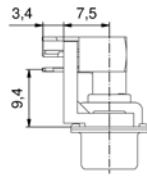
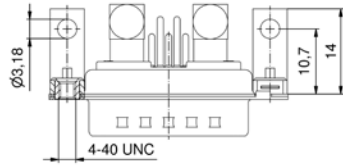
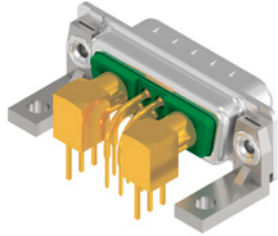
Clip for PCB 1.6 mm, 4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact
  	5W1	75 (UL) / 5 (CSA, VDE)	250	E228329	3	3005W1SAU73G40X	
	7W2					3007W2SAU73G40X	
	9W4					3009W4SAU73G40X	
	11W1					3011W1SAU73G40X	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

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

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

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

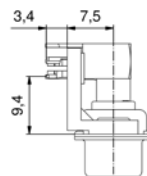
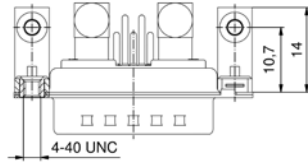
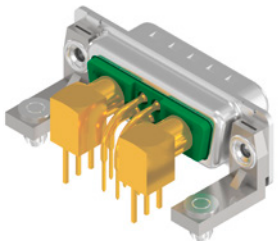
4-40 UNC threaded insert



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



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	3005W1SAU78G20X
7W2					3007W2SAU78G20X
9W4					3009W4SAU78G20X
11W1					3011W1SAU78G20X
13W3					3013W3SAU78G20X
13W6					3013W6SAU78G20X
17W2					3017W2SAU78G20X
17W5					3017W5SAU78G20X
21W1					3021W1SAU78G20X
24W7					3024W7SAU79G20X
25W3					3025W3SAU78G20X
27W2					3027W2SAU78G20X
36W4					3036W4SAU79G20X
43W2					3043W2SAU79G20X
47W1					3047W1SAU79G20X
21WA4					321WA4SAU78G20X

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

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

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

Solder cup
Precision machined contacts, AWG 22

Through-hole \varnothing 3 mm

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

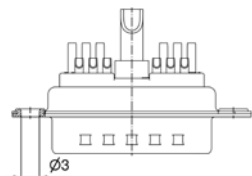
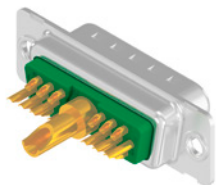
No. of poles

Current rating signal contacts [A]

Working voltage [V]

Quality class

Part No. Socket contact Part No. Plug contact



15W4

19W1

45W2

3 (UL, VDE) / 2.5 (CSA)

60

3

3H15W4SAM62A10X 3H15W4PAM62A10X

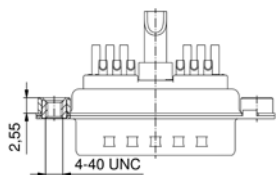
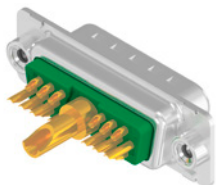
3H19W1SAM62A10X 3H19W1PAM62A10X

3H45W2SAM62A10X 3H45W2PAM62A10X

For other Power contacts select code from spread sheet

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

4-40 UNC threaded insert



15W4

19W1

45W2

3 (UL, VDE) / 2.5 (CSA)

60

3

3H15W4SAM62A30X 3H15W4PAM62A30X

3H19W1SAM62A30X 3H19W1PAM62A30X

3H45W2SAM62A30X 3H45W2PAM62A30X

For other Power contacts select code from spread sheet

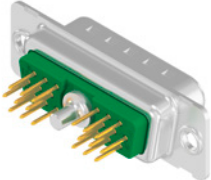
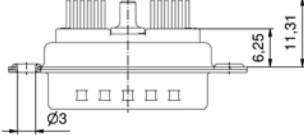
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A
63	10-12	30 A
64	8-10	40 A

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

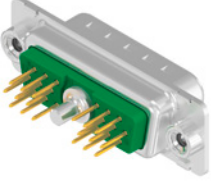
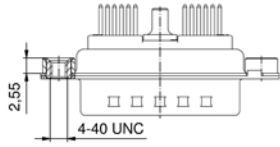
Solder pin, straight
Precision machined contacts

Through-hole Ø 3 mm

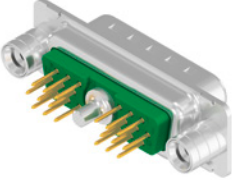
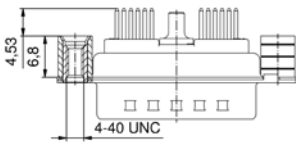
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

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

4-40 UNC threaded insert

  <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr><td>68</td><td>20 A</td><td>1.95</td></tr> <tr><td>69</td><td>20 A</td><td>2.60</td></tr> <tr><td>70</td><td>20 A</td><td>2.85</td></tr> <tr><td>71</td><td>30 A</td><td>3.18</td></tr> <tr><td>72</td><td>40 A</td><td>3.75</td></tr> </tbody> </table>	For other Power contacts select code from spread sheet			Code	Current rating	Diameter solder pin	68	20 A	1.95	69	20 A	2.60	70	20 A	2.85	71	30 A	3.18	72	40 A	3.75	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69A30X	3H15W4PAR69A30X
	For other Power contacts select code from spread sheet																										
	Code	Current rating	Diameter solder pin																								
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72	40 A	3.75																									
19W1	3H19W1SAR69A30X	3H19W1PAR69A30X																									
45W2	3H45W2SAR69A30X	3H45W2PAR69A30X																									

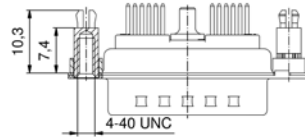
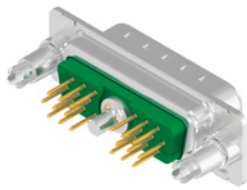
4-40 UNC threaded rear spacer

  <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr><td>68</td><td>20 A</td><td>1.95</td></tr> <tr><td>69</td><td>20 A</td><td>2.60</td></tr> <tr><td>70</td><td>20 A</td><td>2.85</td></tr> <tr><td>71</td><td>30 A</td><td>3.18</td></tr> <tr><td>72</td><td>40 A</td><td>3.75</td></tr> </tbody> </table>	For other Power contacts select code from spread sheet			Code	Current rating	Diameter solder pin	68	20 A	1.95	69	20 A	2.60	70	20 A	2.85	71	30 A	3.18	72	40 A	3.75	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAR69A50X	3H15W4PAR69A50X
	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																									
19W1	3H19W1SAR69A50X	3H19W1PAR69A50X																									
45W2	3H45W2SAR69A50X	3H45W2PAR69A50X																									

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

Solder pin, straight
Precision machined contacts

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



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]

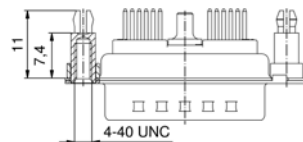
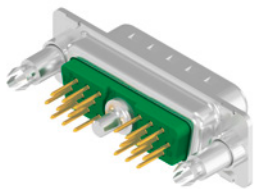
Quality class

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

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

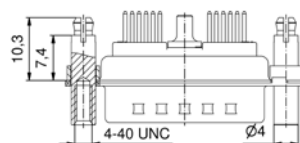
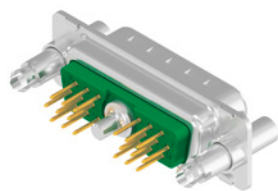


For other Power contacts select code from spread sheet

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

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

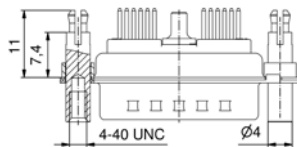
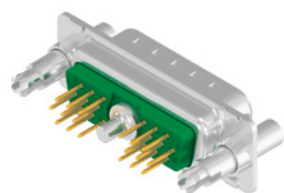
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

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

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



For other Power contacts select code from spread sheet

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

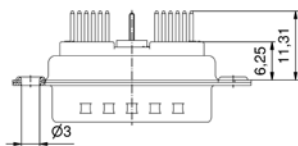
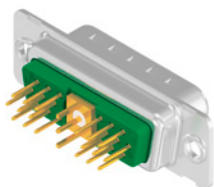
No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2,5 (CSA)	60	3	3H15W4SAR69F40X	3H15W4PAR69F40X
19W1				3H19W1SAR69F40X	3H19W1PAR69F40X
45W2				3H45W2SAR69F40X	3H45W2PAR69F40X

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

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

Solder pin, straight
Precision machined contacts

Through-hole Ø 3 mm



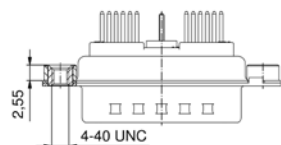
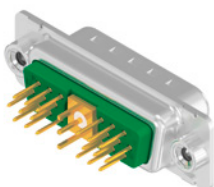
For other coaxial contacts select code from spread sheet

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	3H15W4SAR76A10X	3H15W4PAR76A10X
19W1				3H19W1SAR76A10X	3H19W1PAR76A10X
45W2				3H45W2SAR76A10X	3H45W2PAR76A10X

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

4-40 UNC threaded insert



For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

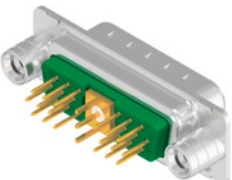
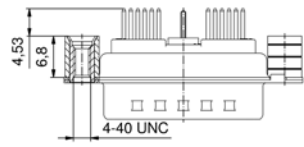
No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
15W4	3 (UL, VDE) / 2,5 (CSA)	60	3	3H15W4SAR76A30X	3H15W4PAR76A30X
19W1				3H19W1SAR76A30X	3H19W1PAR76A30X
45W2				3H45W2SAR76A30X	3H45W2PAR76A30X

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

Solder pin, straight
Precision machined contacts

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

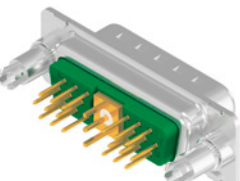
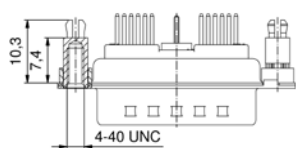
4-40 UNC threaded rear spacer

4-40 UNC threaded rear spacer		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
 	15W4	3 (UL VDE) / 2.5 (CSA)	60	3	3H15W4SAR76A50X	3H15W4PAR76A50X	
	19W1				3H19W1SAR76A50X	3H19W1PAR76A50X	
	45W2				3H45W2SAR76A50X	3H45W2PAR76A50X	

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

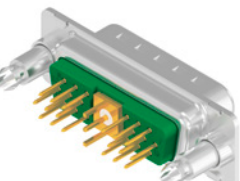
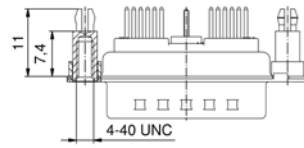
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

4-40 UNC threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
 	15W4	3 (UL VDE) / 2.5 (CSA)	60	3	3H15W4SAR76E20X	3H15W4PAR76E20X	
	19W1				3H19W1SAR76E20X	3H19W1PAR76E20X	
	45W2				3H45W2SAR76E20X	3H45W2PAR76E20X	

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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

4-40 UNC threaded rear spacer clip for PCB 2.3 mm		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
 	15W4	3 (UL VDE) / 2.5 (CSA)	60	3	3H15W4SAR76E40X	3H15W4PAR76E40X	
	19W1				3H19W1SAR76E40X	3H19W1PAR76E40X	
	45W2				3H45W2SAR76E40X	3H45W2PAR76E40X	

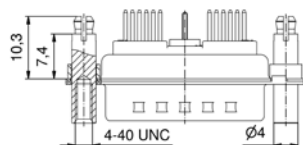
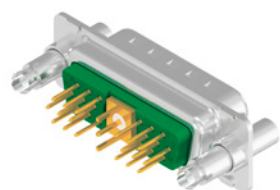
For other coaxial contacts select code from spread sheet

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

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

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

15W4

3 (UL, VDE) / 2.5 (CSA)

60

3

3H15W4SAR76F20X

3H15W4PAR76F20X

19W1

3H19W1SAR76F20X

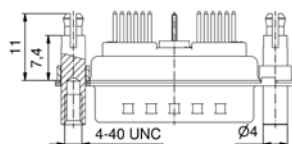
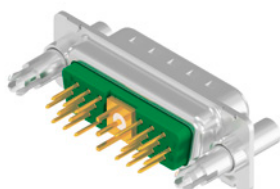
3H19W1PAR76F20X

45W2

3H45W2SAR76F20X

3H45W2PAR76F20X

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

15W4

3 (UL, VDE) / 2.5 (CSA)

60

3

3H15W4SAR76F40X

3H15W4PAR76F40X

19W1

3H19W1SAR76F40X

3H19W1PAR76F40X

45W2

3H45W2SAR76F40X

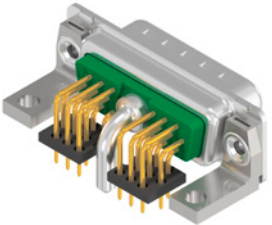
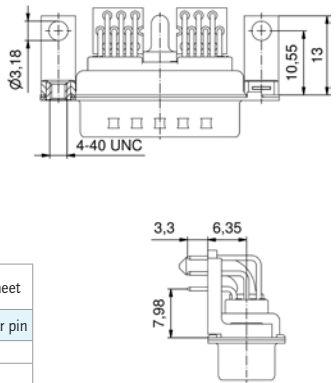
3H45W2PAR76F40X

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

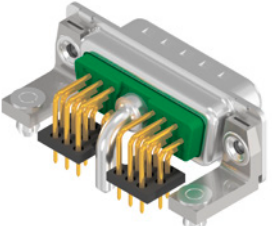
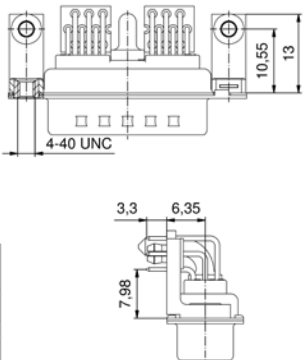
Solder pin, angled, 3.50"/7.98 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert

4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact																	
  <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>59</td> <td>15 A</td> <td>1.90</td> </tr> <tr> <td>73</td> <td>20 A</td> <td>2.85</td> </tr> <tr> <td>74</td> <td>30 A</td> <td>3.20</td> </tr> <tr> <td>75</td> <td>40 A</td> <td>3.75</td> </tr> </tbody> </table>	For other Power contacts select code from spread sheet			Code	Current rating	Diameter solder pin	59	15 A	1.90	73	20 A	2.85	74	30 A	3.20	75	40 A	3.75	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAT73G60X	3H15W4PAT73G60X
	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																						
19W1	3H19W1SAT73G60X	3H19W1PAT73G60X																						
45W2	3H45W2SAT73G60X	3H45W2PAT73G60X																						

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

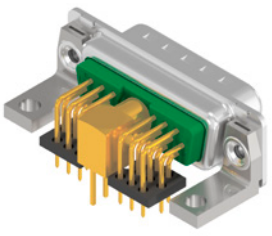
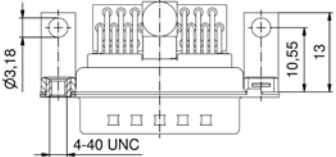
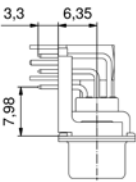
Clip for PCB 1.6 mm, 4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact																	
  <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>59</td> <td>15 A</td> <td>1.90</td> </tr> <tr> <td>73</td> <td>20 A</td> <td>2.85</td> </tr> <tr> <td>74</td> <td>30 A</td> <td>3.20</td> </tr> <tr> <td>75</td> <td>40 A</td> <td>3.75</td> </tr> </tbody> </table>	For other Power contacts select code from spread sheet			Code	Current rating	Diameter solder pin	59	15 A	1.90	73	20 A	2.85	74	30 A	3.20	75	40 A	3.75	15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAT73G80X	3H15W4PAT73G80X
	For other Power contacts select code from spread sheet																							
	Code	Current rating	Diameter solder pin																					
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73	20 A	2.85																						
74	30 A	3.20																						
75	40 A	3.75																						
19W1	3H19W1SAT73G80X	3H19W1PAT73G80X																						
45W2	3H45W2SAT73G80X	3H45W2PAT73G80X																						

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

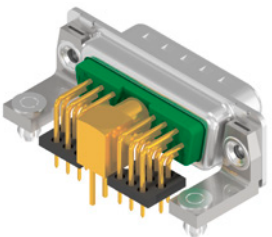
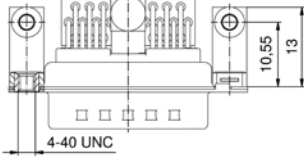
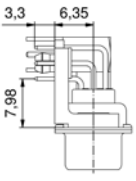
Solder pin, angled, 3.50"/7.98 mm
Precision machined contacts, metal bracket

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

4-40 UNC threaded insert

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

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

 		No. of poles	Current rating signal contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact						
						Part No. Socket contact	Part No. Plug contact						
For other coaxial contacts select code from spread sheet <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	78	50 Ω	88	75 Ω		15W4	3 (UL, VDE) / 2.5 (CSA)	60	3	3H15W4SAT78G80X	3H15W4PAT78G80X
	Code	Impedance											
	78	50 Ω											
88	75 Ω												
19W1	3H19W1SAT78G80X	3H19W1PAT78G80X											
45W2	3H45W2SAT78G80X	3H45W2PAT78G80X											

COMBINATION D-SUB CONNECTORS Without contacts

For straight high power, coaxial or
High voltage contacts

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

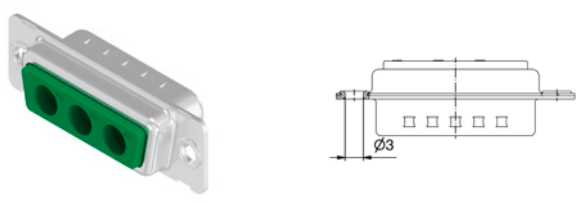
Through-hole Ø 3 mm

No. of poles

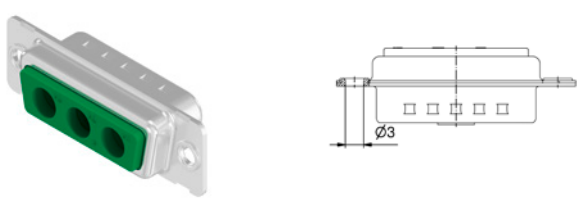
UL-File

Part No. Socket contact

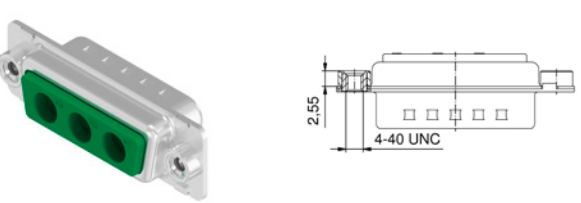
Part No. Plug contact

	3W3	E228329	3003W3SXX99A10X	3003W3PXX99A10X
	5W5		3005W5SXX99A10X	3005W5PXX99A10X
	8W8		3008W8SXX99A10X	3008W8PXX99A10X

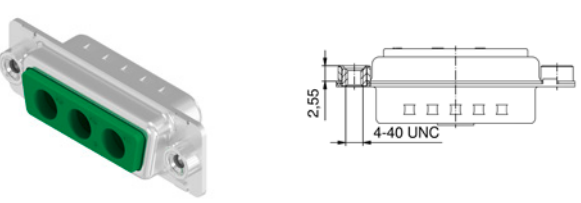
Through-hole Ø 3 mm, coded version

	2W2C	E228329	302W2CSXX99A10X	302W2CPXX99A10X
	3W3C		303W3CSXX99A10X	303W3CPXX99A10X

4-40 UNC threaded insert

	3W3	E228329	3003W3SXX99A30X	3003W3PXX99A30X
	5W5		3005W5SXX99A30X	3005W5PXX99A30X
	8W8		3008W8SXX99A30X	3008W8PXX99A30X

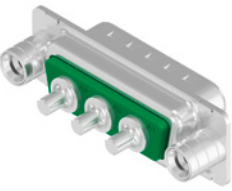
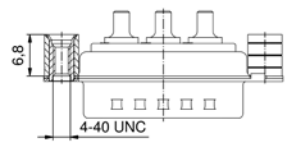
4-40 UNC threaded insert, coded version

	2W2C	E228329	302W2CSXX99A30X	302W2CPXX99A30X
	3W3C		303W3CSXX99A30X	303W3CPXX99A30X

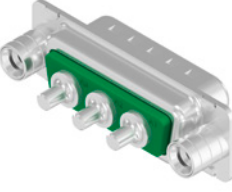
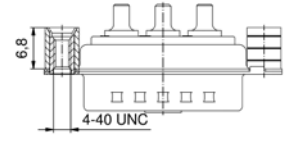
COMBINATION D-SUB CONNECTORS With high power contacts 20 A

Solder pin, straight

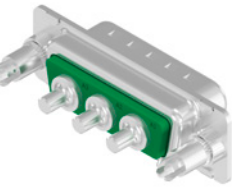
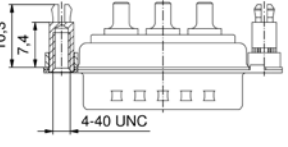
4-40 UNC threaded rear spacer

4-40 UNC threaded rear spacer		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																				
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8W8	3008W8SXX69A50X	3008W8PXX69A50X																								

4-40 UNC, threaded rear spacer, coded version

4-40 UNC, threaded rear spacer, coded version		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																				
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72	40 A	3.75																								
3W3C	303W3CSXX69A50X	303W3CPXX69A50X																								

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

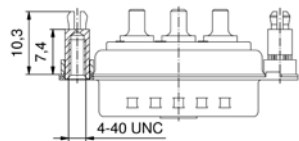
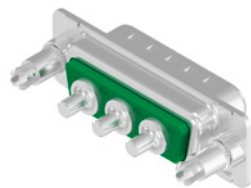
4-40 UNC threaded rear spacer clip for PCB 1.6 mm		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																				
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Shell: Steel tin plated
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Brass tin plated or stainless steel
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

COMBINATION D-SUB CONNECTORS With high power contacts 20 A

Solder pin, straight

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

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

Part No. Socket contact Part No. Plug contact

2W2C

E228329

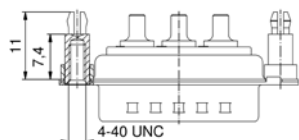
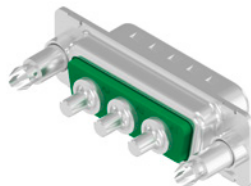
3

302W2CSXX69E20X 302W2CPXX69E20X

3W3C

303W3CSXX69E20X 303W3CPXX69E20X

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

3W3

E228329

3

3003W3SXX69E40X 3003W3PXX69E40X

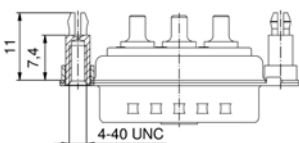
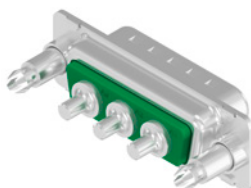
5W5

3005W5SXX69E40X 3005W5PXX69E40X

8W8

3008W8SXX69E40X 3008W8PXX69E40X

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

2W2C

E228329

3

302W2CSXX69E40X 302W2CPXX69E40X

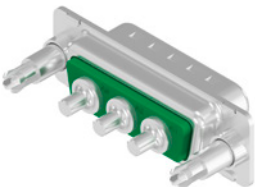
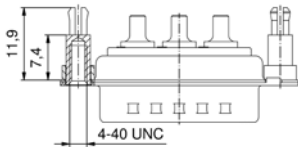
3W3C

303W3CSXX69E40X 303W3CPXX69E40X

COMBINATION D-SUB CONNECTORS With high power contacts 20 A

Solder pin, straight

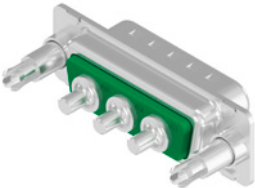
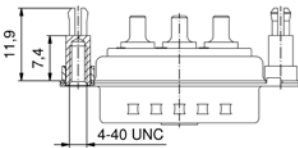
4-40 UNC threaded rear spacer clip for PCB 3.2 mm

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	3003W3SXX69E60X	3003W3PXX69E60X
		5W5			3005W5SXX69E60X	3005W5PXX69E60X
		8W8			3008W8SXX69E60X	3008W8PXX69E60X

For other Power contacts select code from spread sheet

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

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

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	302W2CSXX69E60X	302W2CPXX69E60X
		3W3C			303W3CSXX69E60X	303W3CPXX69E60X

For other Power contacts select code from spread sheet

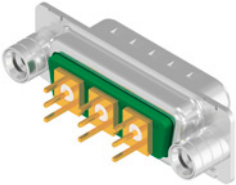
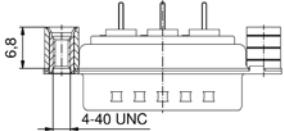
Code	Current rating	Diameter solder pin
69	20 A	2,60
71	30 A	3,18
72	40 A	3,75

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

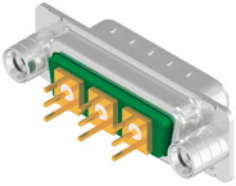
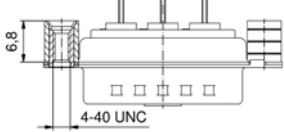
COMBINATION D-SUB CONNECTORS With coaxial contacts 50 Ω

Solder pin, straight

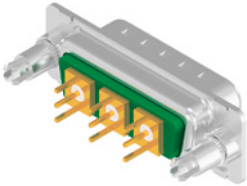
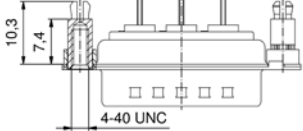
4-40 UNC threaded rear spacer

4-40 UNC threaded rear spacer		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact						
 	<p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>76</td> <td>50 Ω</td> </tr> <tr> <td>86</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	76	50 Ω	86	75 Ω	3W3	E228329	3	3003W3SXX76A50X	3003W3PXX76A50X
		Code	Impedance									
		76	50 Ω									
86	75 Ω											
5W5	3005W5SXX76A50X	3005W5PXX76A50X										
8W8	3008W8SXX76A50X	3008W8PXX76A50X										

4-40 UNC, threaded rear spacer, coded version

4-40 UNC, threaded rear spacer, coded version		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact						
 	<p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>76</td> <td>50 Ω</td> </tr> <tr> <td>86</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	76	50 Ω	86	75 Ω	2W2C	E228329	3	302W2CSXX76A50X	302W2CPXX76A50X
		Code	Impedance									
76	50 Ω											
86	75 Ω											
3W3C	303W3CSXX76A50X	303W3CPXX76A50X										

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

4-40 UNC threaded rear spacer clip for PCB 1.6 mm		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact						
 	<p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>76</td> <td>50 Ω</td> </tr> <tr> <td>86</td> <td>75 Ω</td> </tr> </tbody> </table>	Code	Impedance	76	50 Ω	86	75 Ω	3W3	E228329	3	3003W3SXX76E20X	3003W3PXX76E20X
		Code	Impedance									
		76	50 Ω									
86	75 Ω											
5W5	3005W5SXX76E20X	3005W5PXX76E20X										
8W8	3008W8SXX76E20X	3008W8PXX76E20X										

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

COMBINATION D-SUB CONNECTORS With coaxial contacts 50 Ω

Solder pin, straight

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

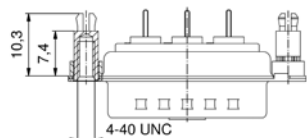
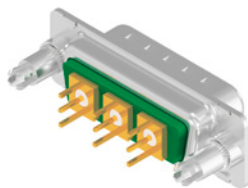
4-40 UNC threaded rear spacer clip for PCB 1.6 mm, coded version

No. of poles

UL-File

Quality class

Part No. Socket contact Part No. Plug contact



2W2C

E228329

3

302W2CSXX76E20X

302W2CPXX76E20X

For other coaxial contacts select code from spread sheet

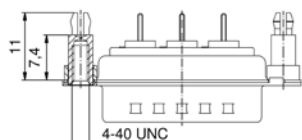
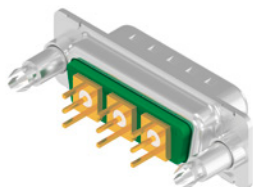
Code	Impedance
76	50 Ω
86	75 Ω

3W3C

303W3CSXX76E20X

303W3CPXX76E20X

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



3W3

E228329

3

3003W3SXX76E40X

3003W3PXX76E40X

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

5W5

3005W5SXX76E40X

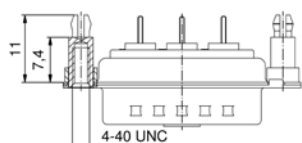
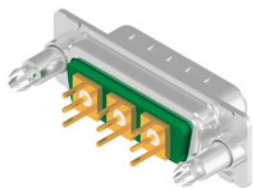
3005W5PXX76E40X

8W8

3008W8SXX76E40X

3008W8PXX76E40X

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



2W2C

E228329

3

302W2CSXX76E40X

302W2CPXX76E40X

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

3W3C

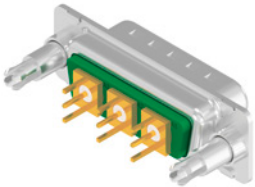
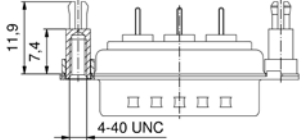
303W3CSXX76E40X

303W3CPXX76E40X

COMBINATION D-SUB CONNECTORS
With coaxial contacts 50 Ω

Solder pin, straight

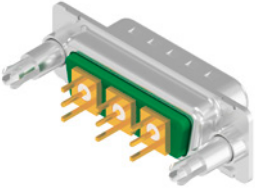
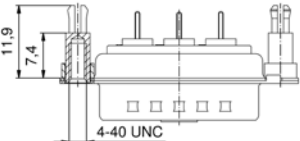
4-40 UNC threaded rear spacer clip for PCB 3.2 mm

4-40 UNC threaded rear spacer clip for PCB 3.2 mm		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 		3W3	E228329	3	3003W3SXX76E60X	3003W3PXX76E60X
		5W5			3005W5SXX76E60X	3005W5PXX76E60X
		8W8			3008W8SXX76E60X	3008W8PXX76E60X

For other coaxial contacts select code from spread sheet

Code	Impedance
76	50 Ω
86	75 Ω

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

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	302W2CSXX76E60X	302W2CPXX76E60X
		3W3C			303W3CSXX76E60X	303W3CPXX76E60X

For other coaxial contacts select code from spread sheet

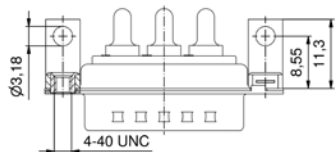
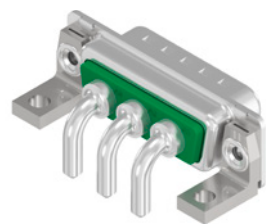
Code	Impedance
76	50 Ω
86	75 Ω

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

COMBINATION D-SUB CONNECTORS With high power contacts 20 A

Solder pin, angled
Short 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

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

Part No. Socket contact Part No. Plug contact

3W3

E228329

3

3003W3SXX73N20X

3003W3PXX73N20X

5W5

3005W5SXX73N20X

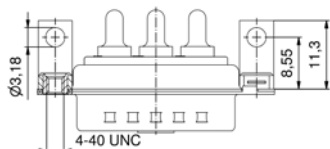
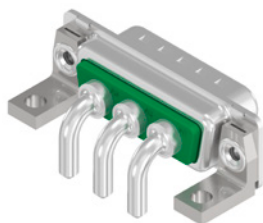
3005W5PXX73N20X

8W8

3008W8SXX73N20X

3008W8PXX73N20X

4-40 UNC threaded insert, coded version



For other Power contacts select code from spread sheet

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

2W2C

E228329

3

302W2CSXX73N20X

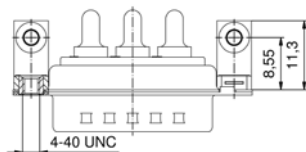
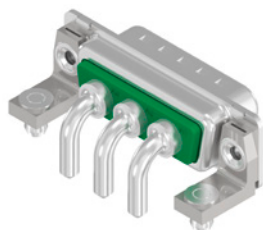
302W2CPXX73N20X

3W3C

303W3CSXX73N20X

303W3CPXX73N20X

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

3W3

E228329

3

3003W3SXX73N40X

3003W3PXX73N40X

5W5

3005W5SXX73N40X

3005W5PXX73N40X

8W8

3008W8SXX73N40X

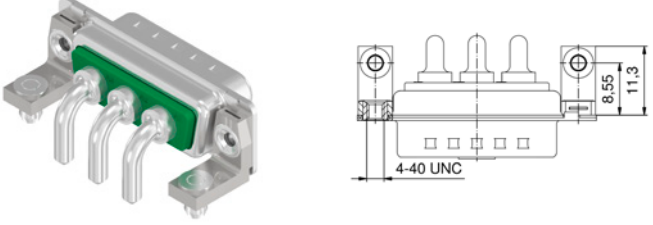
3008W8PXX73N40X

COMBINATION D-SUB CONNECTORS With high power contacts 20 A

Solder pin, angled
Short metal bracket

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

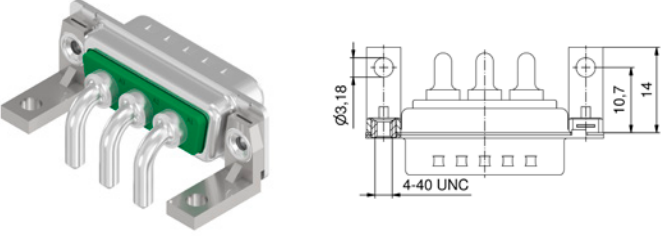
Shell: Steel tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Brass tin plated or stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	2W2C	E228329	3	302W2CSXX73N40X	302W2CPXX73N40X	
	3W3C			303W3CSXX73N40X	303W3CPXX73N40X	

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

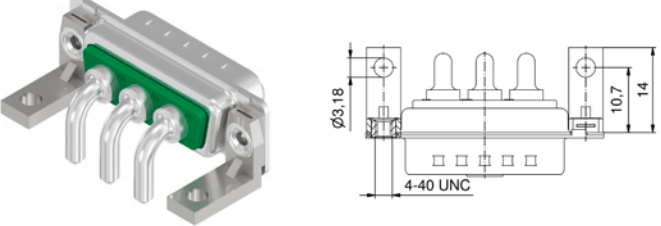
Solder pin, angled
Long metal bracket

4-40 UNC threaded insert

	3W3	E228329	3	3003W3SXX73G20X	3003W3PXX73G20X
	5W5			3005W5SXX73G20X	3005W5PXX73G20X
	8W8			3008W8SXX73G20X	3008W8PXX73G20X

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

4-40 UNC threaded insert, coded version

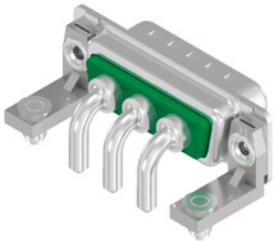
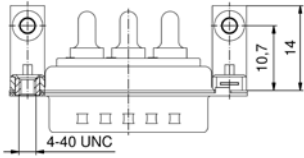
	2W2C	E228329	3	302W2CSXX73G20X	302W2CPXX73G20X
	3W3C			303W3CSXX73G20X	303W3CPXX73G20X

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

COMBINATION D-SUB CONNECTORS
With high power contacts 20 A

Solder pin, angled
Long metal bracket

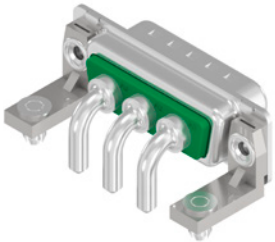
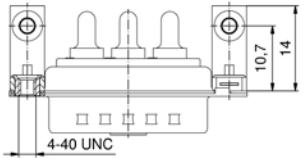
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

Clip for PCB 1.6 mm, 4-40 UNC threaded insert		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact		
 		3W3	E228329	3	3003W3SXX73G40X	3003W3PXX73G40X		
		5W5					3005W5SXX73G40X	3005W5PXX73G40X
		8W8					3008W8SXX73G40X	3008W8PXX73G40X

For other Power contacts select code from spread sheet

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

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

Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 		2W2C	E228329	3	302W2CSXX73G40X	302W2CPXX73G40X
		3W3C				

For other Power contacts select code from spread sheet

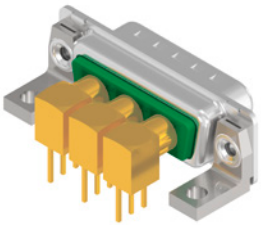
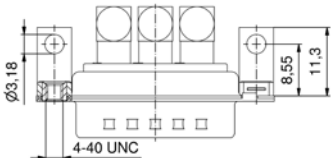
Code	Current rating	Diameter solder pin
59	15 A	1.90
73	20 A	2.85
74	30 A	3.20
75	40 A	3.75

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

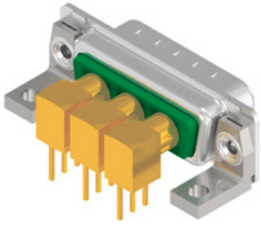
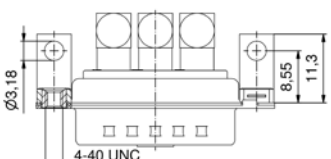
COMBINATION D-SUB CONNECTORS
With coaxial contacts 50 Ω

Solder pin, angled
Short metal bracket

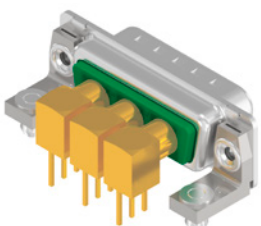
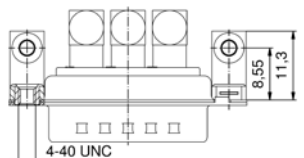
4-40 UNC threaded insert

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

4-40 UNC threaded insert, coded version

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

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

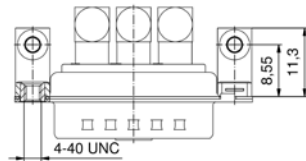
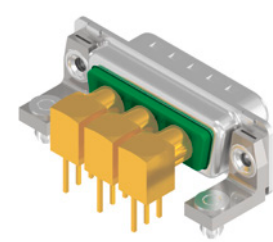
 		No. of poles	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact						
<p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>		Code	Impedance	78	50 Ω	88	75 Ω	3W3	E228329	3	3003W3SXX78N40X	3003W3PXX78N40X
		Code	Impedance									
		78	50 Ω									
88	75 Ω											
5W5	3005W5SXX78N40X	3005W5PXX78N40X										
8W8	3008W8SXX78N40X	3008W8PXX78N40X										

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

COMBINATION D-SUB CONNECTORS With coaxial contacts 50 Ω

Solder pin, 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

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

Part No. Socket contact Part No. Plug contact

2W2C

E228329

3

302W2CSXX78N40X

302W2CPXX78N40X

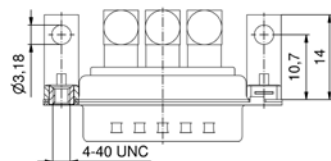
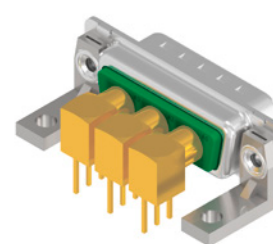
3W3C

303W3CSXX78N40X

303W3CPXX78N40X

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

3W3

E228329

3

3003W3SXX78G20X

3003W3PXX78G20X

5W5

3005W5SXX78G20X

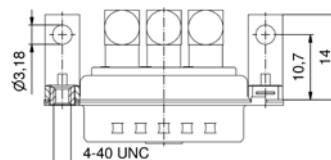
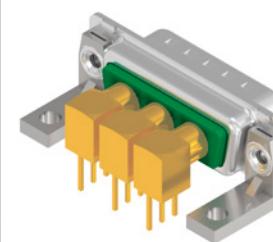
3005W5PXX78G20X

8W8

3008W8SXX78G20X

3008W8PXX78G20X

4-40 UNC threaded insert, coded version



For other coaxial contacts select code from spread sheet

Code	Impedance
78	50 Ω
88	75 Ω

2W2C

E228329

3

302W2CSXX78G20X

302W2CPXX78G20X

3W3C

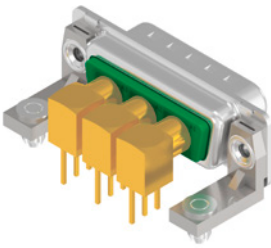
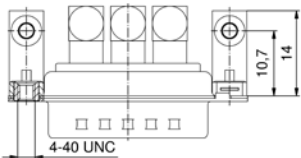
303W3CSXX78G20X

303W3CPXX78G20X

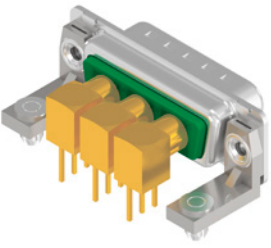
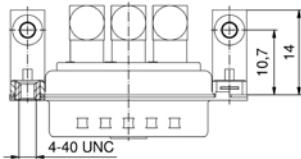
COMBINATION D-SUB CONNECTORS
With coaxial contacts 50 Ω

Solder pin, angled
Long metal bracket

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

 		No. of poles	UL-File	Quality class	Part No. Socket contact		Part No. Plug contact						
For other coaxial contacts select code from spread sheet <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>		Code	Impedance	78	50 Ω	88	75 Ω	3W3	E228329	3	3003W3SXX78G40X	3003W3PXX78G40X	
		Code	Impedance										
		78	50 Ω										
88	75 Ω												
5W5	3005W5SXX78G40X	3005W5PXX78G40X											
8W8	3008W8SXX78G40X	3008W8PXX78G40X											

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

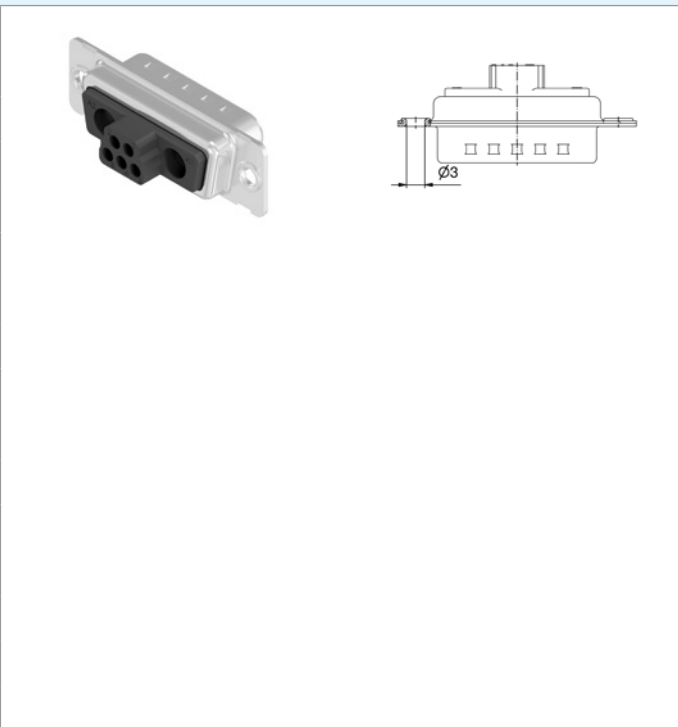
 		No. of poles	UL-File	Quality class	Part No. Socket contact		Part No. Plug contact						
For other coaxial contacts select code from spread sheet <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table>		Code	Impedance	78	50 Ω	88	75 Ω	2W2C	E228329	3	302W2CSXX78G40X	302W2CPXX78G40X	
		Code	Impedance										
78	50 Ω												
88	75 Ω												
3W3C	303W3CSXX78G40X	303W3CPXX78G40X											

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

COMBINATION D-SUB CONNECTORS Without contacts

Crimp body
AWG 20-24 and AWG 26-28

Through-hole \varnothing 3 mm



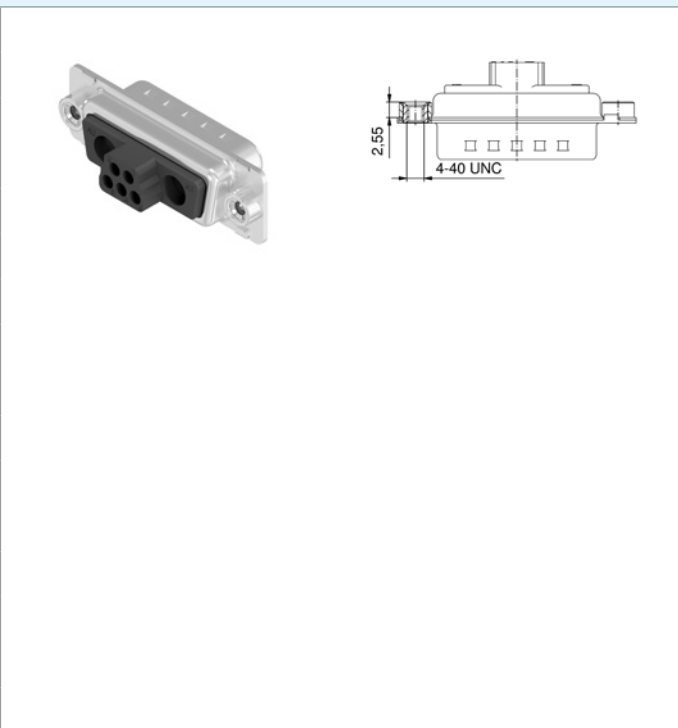
No. of poles

UL-File

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

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

4-40 UNC threaded insert



No. of poles


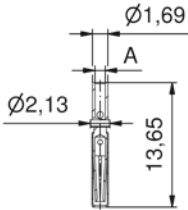
UL-File

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

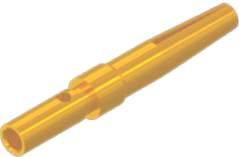
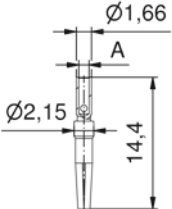
COMBINATION D-SUB CONNECTORS Contacts

Signal contacts crimp

Socket contact closed entry

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


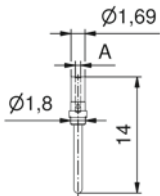
Socket contact

 	20-24	1.12	1.12	A	E228329	162A18709X
	24-28	0.64	0.64			75 (UL) / 5 (CSA, VDE)

COMBINATION D-SUB CONNECTORS Contacts

Signal contacts crimp

Plug contact

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

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

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

COMBINATION D-SUB CONNECTORS Contacts

High power contacts
Solder cup, straight

Socket contact

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

Plug contact

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

COMBINATION D-SUB CONNECTORS Contacts

High power contacts
Solder cup, straight

Plug contact, premating

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

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


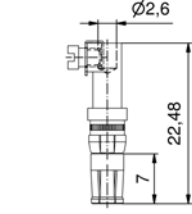
Quality class 1 (C) = 500 mating cycles
On request:
• Quality class 3 (A) = 50 mating cycles

COMBINATION D-SUB CONNECTORS Contacts


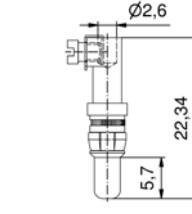
High power contacts Screw termination

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


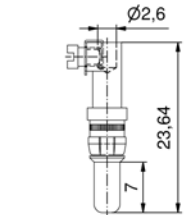
Socket contact

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

Plug contact

 	14	20	C	131C36009X
			A	131A36009X

Plug contact, premating

 	14	20	C	131C36109X
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COMBINATION D-SUB CONNECTORS Contacts

High power contacts Crimp, straight

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

Socket contact

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

Plug contact

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

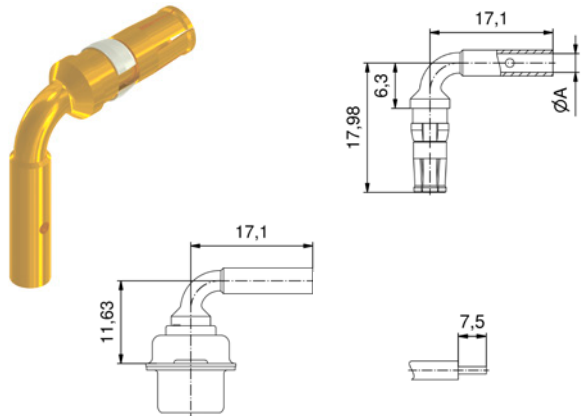
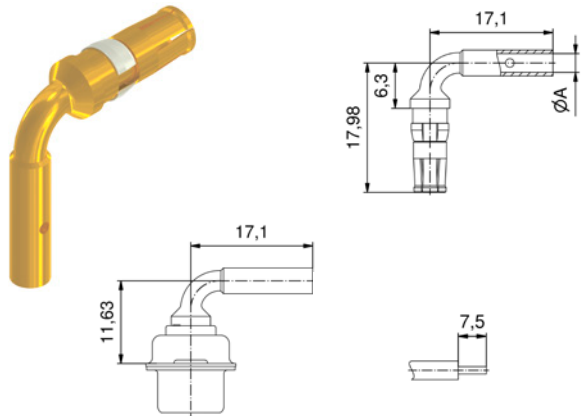
Plug contact, premating

		16-20	10	1.7	C	E228329	131C11119X
							12-14
		10-12	30	3.7			
							8-10

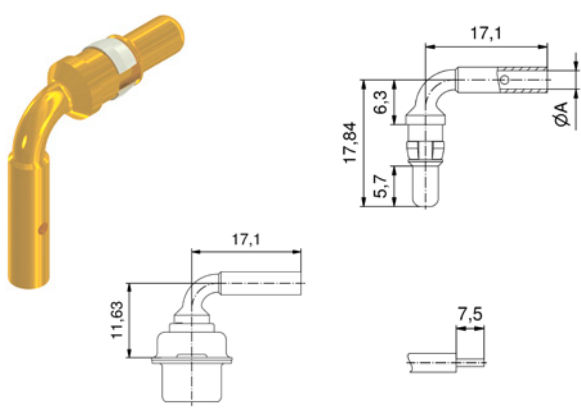
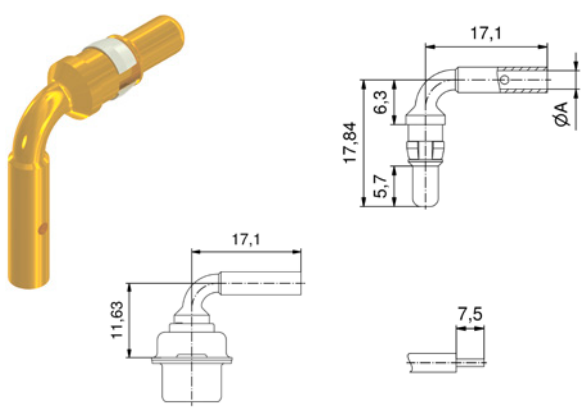
COMBINATION D-SUB CONNECTORS Contacts

High power contacts Crimp, angled

Socket contact

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

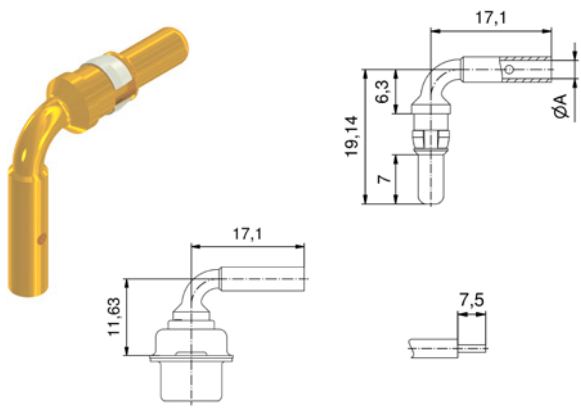
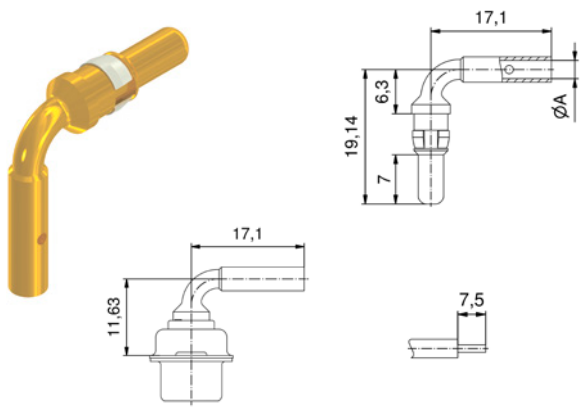
Plug contact

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

COMBINATION D-SUB CONNECTORS Contacts

High power contacts Crimp, angled

Plug contact, prematung

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

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

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

COMBINATION D-SUB CONNECTORS Contacts

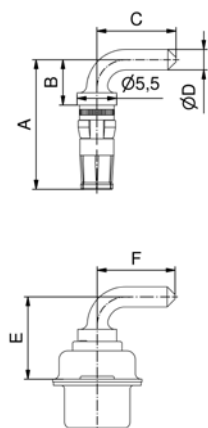
High power contacts
Solder pin, angled

Socket contact

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

Shell size	Current rating [A]	Code use with part no. creator	Hole diameter of PCB [mm]	Quality class	UL-File
1-4	15	55	2.3	C	E228329
		59		A	
20		56	3.2	C	
		73		A	
30		57	3.6	C	
		74		A	
40		58	4.1	C	
		75		A	
20		66	3.2	C	
		81		A	
5	30	67	3.6	C	
		82		A	
	65	C			
	85	A			
40		60	4.1	C	
		77		A	

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



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

COMBINATION D-SUB CONNECTORS Contacts

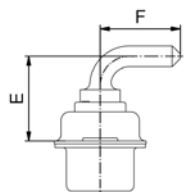
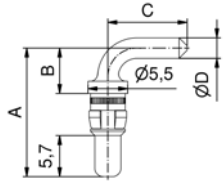
High power contacts
Solder pin, angled

Plug contact

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

Shell size	Current rating [A]	Code use with part no. creator	Hole diameter of PCB [mm]	Quality class	UL-File
1-4	15	55	23	C	E228329
		59		A	
	20	56	3.2	C	
		73		A	
	30	57	3.6	C	
		74		A	
40	58	4.1	C		
	75		A		
5	20	66	3.2	C	
		81		A	
	30	67	3.6	C	
		82		A	
		65		C	
		85		A	
	40	60	4.1	C	
		77		A	

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



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

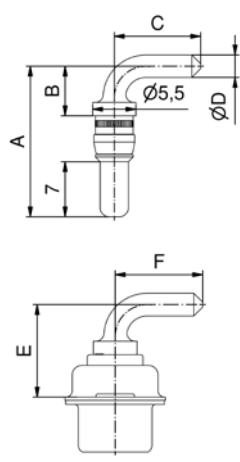
COMBINATION D-SUB CONNECTORS Contacts

High power contacts
Solder pin, angled

Plug contact, premating

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

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

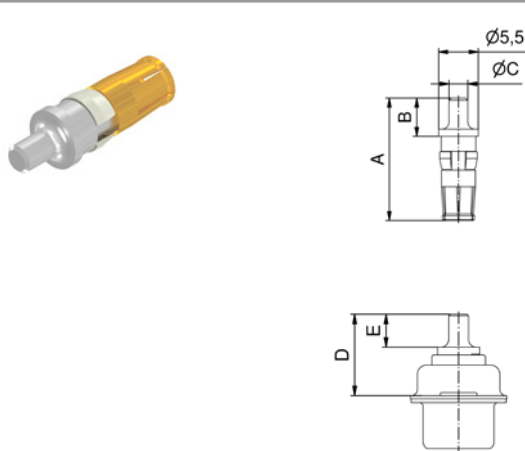


Shellsize	Current rating [A]	A	B	C	D Ø	E	F
1-4	15	15.84	3.00	10.50	1.90	8.35	10.50
1-4	20	19.14	6.30	11.00	2.85	11.65	11.00
1-4	30	27.84	15.00	9.50	3.20	20.35	9.50
1-4	40	19.14	6.30	11.00	3.75	11.65	11.00
5	20	21.65	8.85	14.00	2.85	14.20	12.58
5	30	21.65	8.85	14.00	3.20	14.20	12.58
5	30	27.84	15.00	13.50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

COMBINATION D-SUB CONNECTORS Contacts

High power contacts
Solder pin, straight

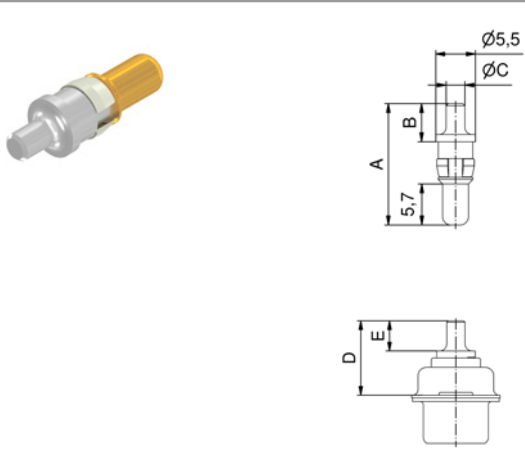
Socket contact



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
	20	49	3	C		132C12029X
		69		A		132A12029X
	20	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
	20	49	3	C		131C12029X
		69		A		131A12029X
	20	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

COMBINATION D-SUB CONNECTORS Contacts

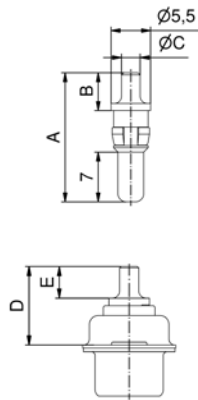
High power contacts
Solder pin, straight

Plug contact, premating

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

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

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

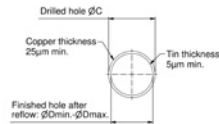
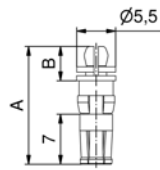
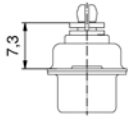


COMBINATION D-SUB CONNECTORS Contacts

High power contacts Press-fit version, straight

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

Socket contact



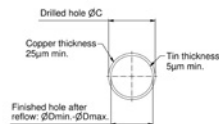
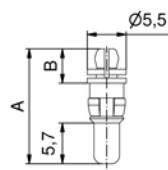
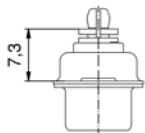
Shell size
Current rating [A]
Code use with part no. creator
Hole diameter of PCB [mm]
Quality class
UL-File

Part No.

1-5	30	P1	3.11	C	E228329	132C00229A
		P2	3.25			132C00299A
		P4	3.2			132C19019X

Current rating [A]	Termination	A	B	C ± 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

131C00319A

131C00389A

131C19019X

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

COMBINATION D-SUB CONNECTORS Contacts

High voltage contacts
Solder termination, straight

Quality class J \geq 500 mating cycles

Socket contact

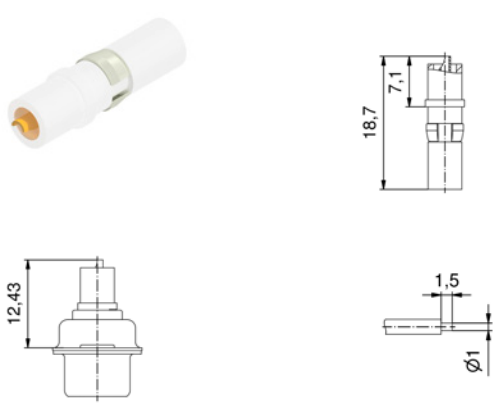
AWG

Working voltage max. [kV]

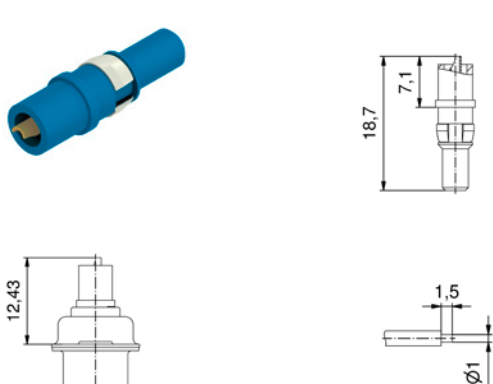
Quality class

UL-File

Part No.

	20	2.8	J	E228329	132J14019X
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Plug contact

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

High voltage contacts
Solder termination, angled

Quality class J \geq 500 mating cycles

Socket contact


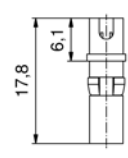
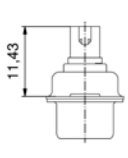
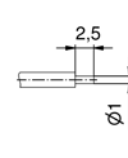
AWG

Working voltage max. [kV]


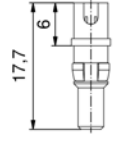
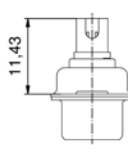
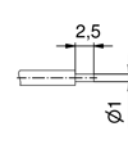
Quality class

UL-File

Part No.

   	20	2.8	J	E228329	132J14519X
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Plug contact

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

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

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

Socket contact

Impedance [Ω]	Cable	Quality class	UL-File	Part No.
50	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 ($\beta=7.3$ mm)	J	132J30019X	
		A	132A30019X	
	179 B/U, 187 A/U ($\beta=11.2$ mm)	J	132J30029X	
		A	132A30029X	

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

Plug contact

Impedance [Ω]	Cable	Quality class	UL-File	Part No.
50	178 B/U, 196 A/U, 404 /U	J	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 ($\beta=7.3$ mm)	J	131J30019X	
		A	131A30019X	
	179 B/U, 187 A/U ($\beta=11.2$ mm)	J	131J30029X	
		A	131A30029X	

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

COMBINATION D-SUB CONNECTORS Contacts

Coaxial contacts, straight
Inner and outer conductor crimp termination

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

Socket contact

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

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

Plug contact

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

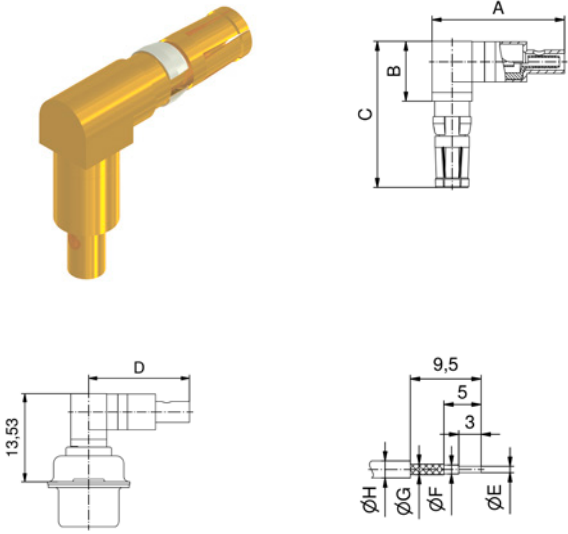
COMBINATION D-SUB CONNECTORS Contacts

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

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

Socket contact

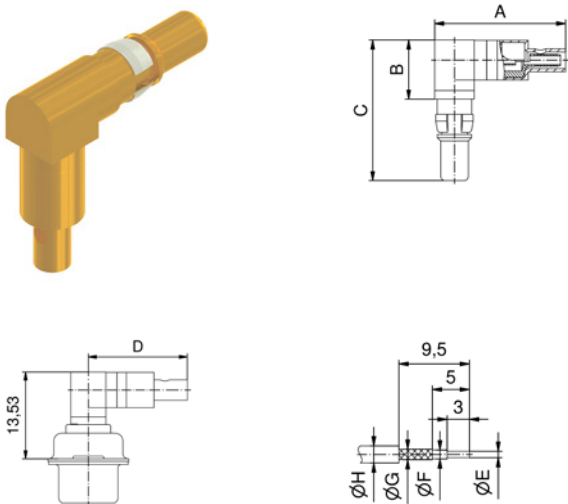
Impedance [Ω]	Cable	Quality class	UL-File	Part No.
50	174 /U, 188 A/U, 316 /U	J	E228329	132J22019X
		A		132A22019X
	178 B/U, 196 A/U, 404 /U	J		132J22029X
		A		132A22029X
	316 /U double braided	J		132J22039X
		A		132A22039X



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

Plug contact

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



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

COMBINATION D-SUB CONNECTORS Contacts

Coaxial contacts, angled
Inner and outer conductor crimp termination

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

Socket contact

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

Plug contact

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

COMBINATION D-SUB CONNECTORS Contacts

Coaxial contacts, straight
PCB termination, 3 solder pins

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

Socket contact

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

Plug contact

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

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

COMBINATION D-SUB CONNECTORS Contacts

Coaxial contacts, straight
PCB termination, 5 solder pins

Socket contact

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

Plug contact

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