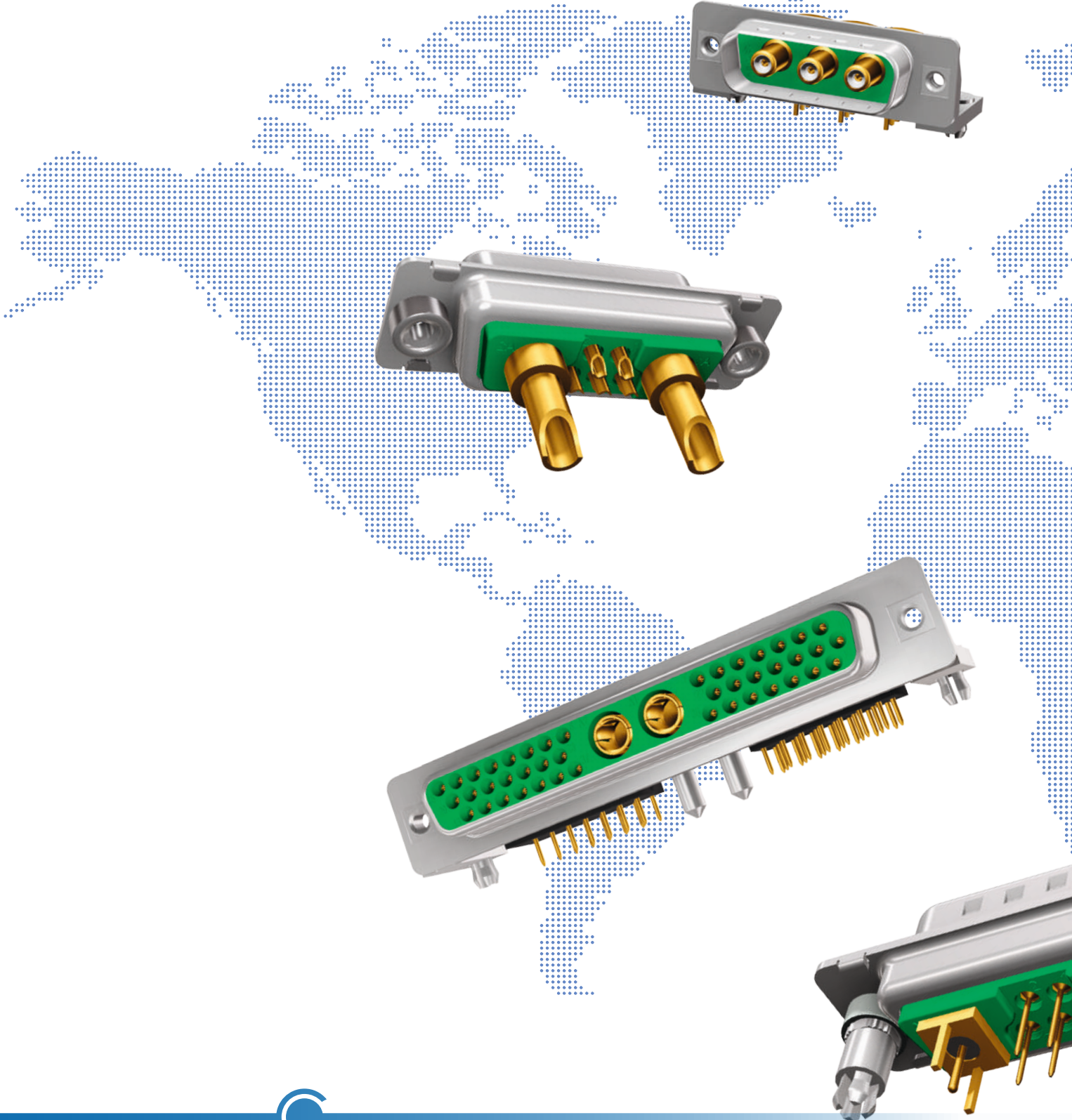
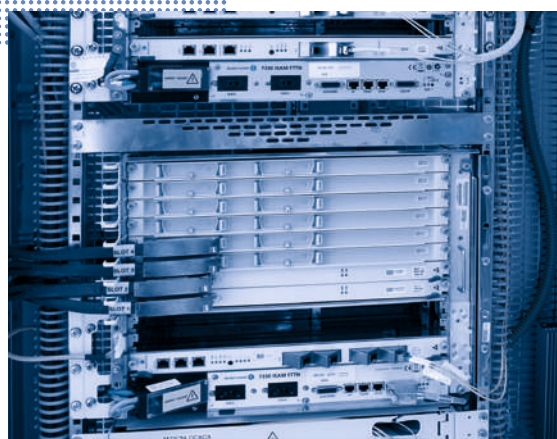
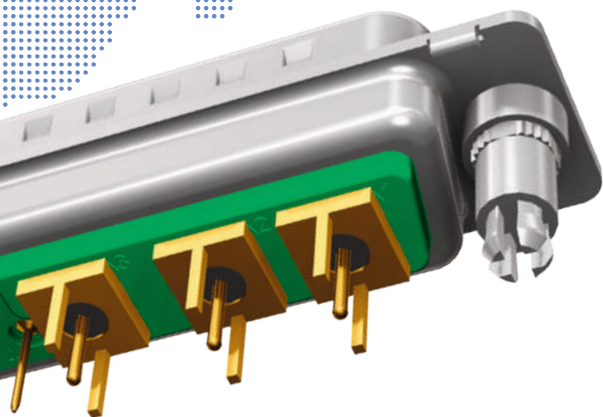
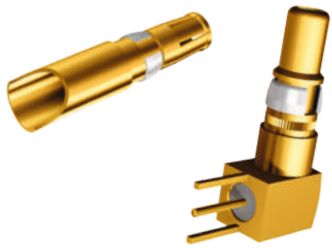


SECTION 2

# COMBINATION D-SUB CONNECTORS





## COMBINATION D-SUB CONNECTORS

### Part Number Creator Standard

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

#### Shell type

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

#### Shell size and design

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

#### Contact type

- P = Plug connector
- S = Socket connector

#### Surface/Quality class for SIGNAL contacts

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

#### Termination only for SIGNAL contacts

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

#### Termination for HIGH POWER- or COAXIAL contacts

##### Quality class 3/Quality class 1

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

##### Quality class 3/Quality class 1

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

#### Mounting style

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

OX = Standard



## COMBINATION D-SUB CONNECTORS

### Part Number Creator High Density

**3 H19W1 S C M 4 1 A 1 O X**

#### Shell type

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

#### Shell size and design

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

#### Contact type

- P = Plug connector
- S = Socket connector

#### Quality class for SIGNAL contacts

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

#### Termination only for SIGNAL contacts

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

#### Termination for HIGH POWER- or COAXIAL contacts

##### Quality class 3/Quality class 1

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

##### Quality class 3/Quality class 1

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

##### Quality class 1

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

#### Mounting style

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

- OX = Standard

## COMBINATION D-SUB CONNECTORS

### Product specification Standard

| Basic material  | Connector with signal contacts   | Coaxial contacts                                      | High power contacts   | High voltage contacts    |
|---|--|---|-----------------------|--------------------------|
| Contact   | Copper alloy   |   |                       |                          |
| Contact plating   | Gold over nickel   |   |                       |                          |
| Insulator (Connector)<br>green standard/<br>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) /<br>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 <sup>7</sup> MΩ |
| Characteristic impedance                                |  | 50/75 Ω   |                       |                          |
| Frequency range   |  | 0-2 GHz   |                       |                          |
| VSWR-value according MIL-C-39012                        |  | ≤ 1.2 @ 1.2 GHz<br>≤ 1.3 @ 1.5 GHz<br>≤ 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<br>B = Quality class 2 = 200 mating cycles<br>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)<br>green standard/<br>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  |                       |                          |
| <b>Technical Data</b>                                   |  |   |                       |                          |
| 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) /<br>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 <sup>7</sup> MΩ |
| Characteristic impedance                                |  | 50/75 Ω   |                       |                          |
| Frequency range   |  | 0-2 GHz   |                       |                          |
| VSWR-value according MIL-C-39012                        |  | ≤ 1,2 @ 1.2 GHz<br>≤ 1.3 @ 1.5 GHz<br>≤ 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<br>B = Quality class 2 = 200 mating cycles<br>C = Quality class 1 = 500 mating cycles |   |                       |                          |

Technical specifications are subject to change without notice.

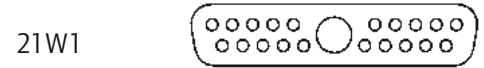
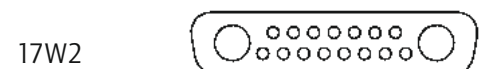
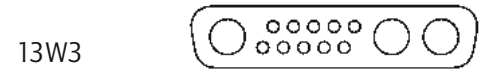
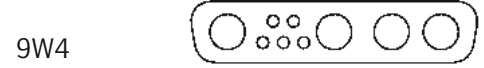
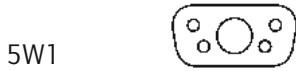
## COMBINATION D-SUB CONNECTORS

### Contact arrangements Mating side of socket connector

Shell size 1

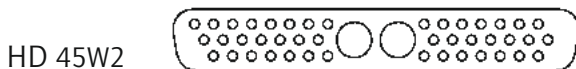
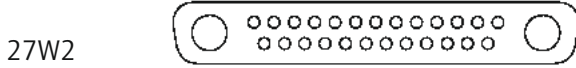
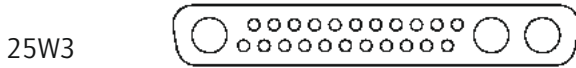
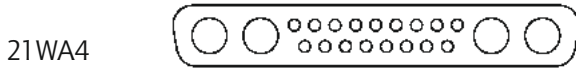
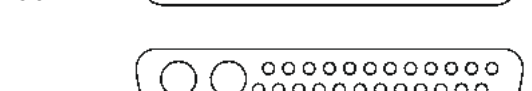
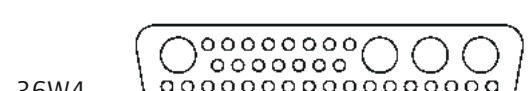
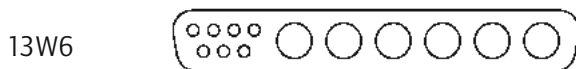
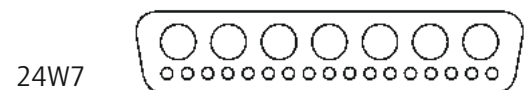
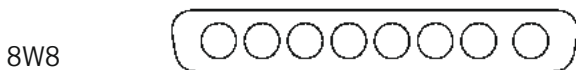
Shell size 2

Shell size 3



Shell size 4

Shell size 5

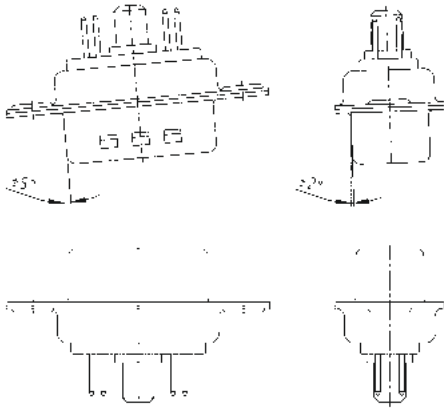


Connectors 3W3, 5W5 and 8W8 with female insulators: Socket contacts are fingerprobe safe according to UL 1950 and CSA 22.2.950.

# COMBINATION D-SUB CONNECTORS

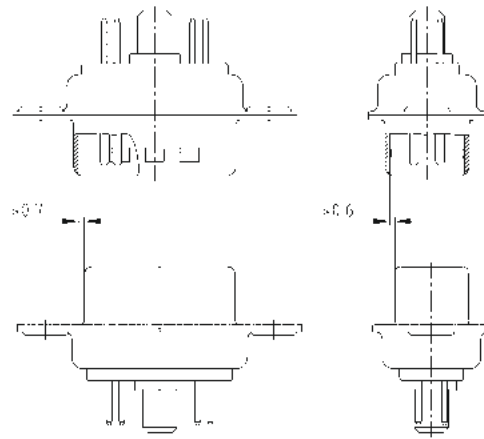
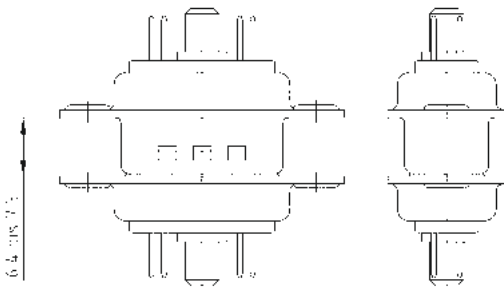
## Mating conditions

Max. tilt angle for connector mating



Range for safe contact

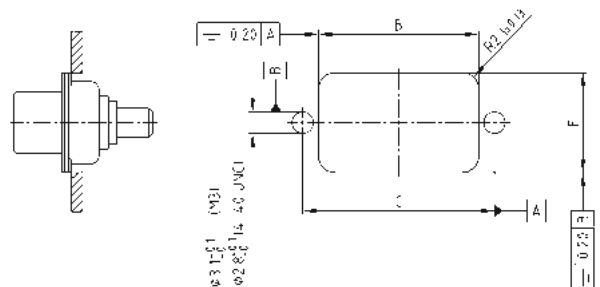
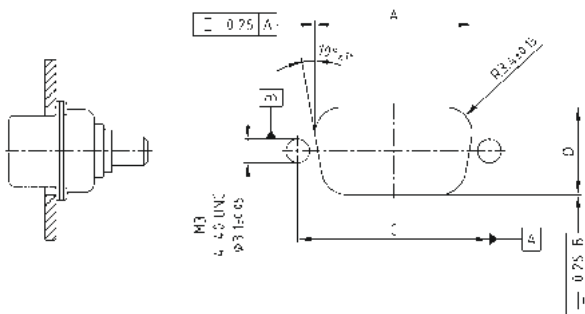
Lock-in range



## 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.

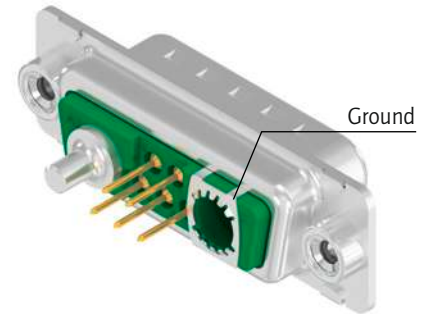


## COMBINATION D-SUB CONNECTORS

### Accessories

#### Grounding for coaxial contacts

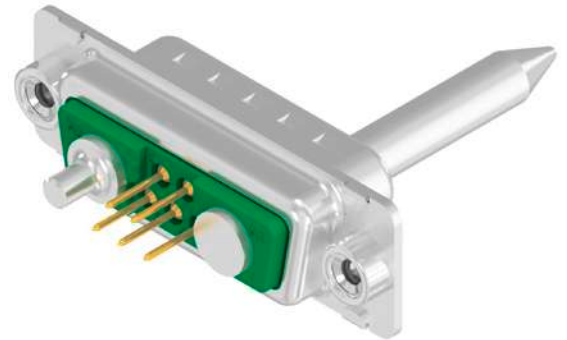
To optimize a perfect ground connection from the coaxial contact (outer conductor) to the metal shell. (Factory installed).



#### 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


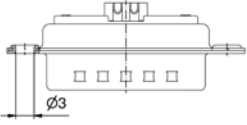


## COMBINATION D-SUB CONNECTORS With signal contacts


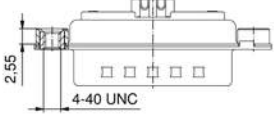
Solder cup  
Precision machined contacts, AWG 20

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         |                       |


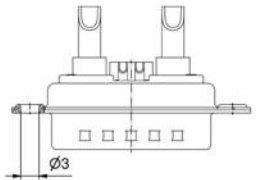
4-40 UNC threaded insert

|   |       |                       |     |         |   |                 |                 |
|---|-------|-----------------------|-----|---------|---|-----------------|-----------------|
|   | 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


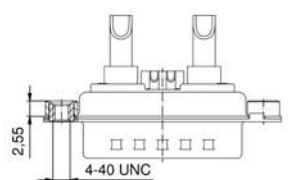
Through-hole Ø 3 mm

| 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       |

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

4-40 UNC threaded insert

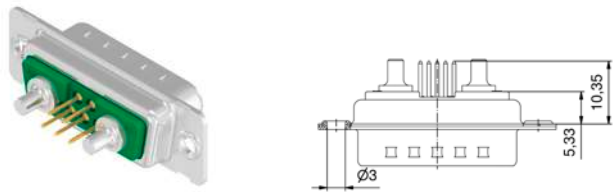
| 4-40 UNC threaded insert  |  | No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|--|--------------|------------------------------------|---------------------|---------|---------------|-------------------------|-----------------------|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

| For other Power contacts select code from spread sheet |       |                |
|--|-------|----------------|
| Code   | AWG   | Current rating |
| 61   | 16-20 | 10 A           |
| 62   | 12-14 | 20 A           |
| 63   | 10-12 | 30 A           |
| 64   | 8-10  | 40 A           |

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

Solder pin, straight  
Precision machined contacts

Through-hole Ø 3 mm

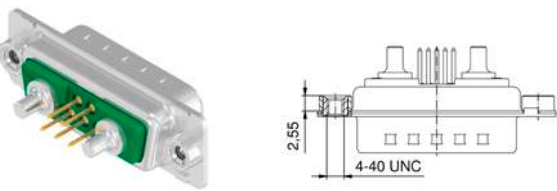


| No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|--------------|------------------------------------|---------------------|---------|---------------|-------------------------|-----------------------|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

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

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

4-40 UNC threaded insert



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

| 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                |


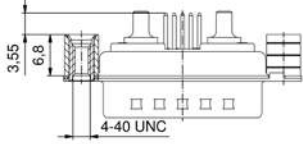
## COMBINATION D-SUB CONNECTORS

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                |


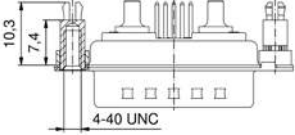


**COMBINATION D-SUB CONNECTORS**  
With signal contacts & high power contacts 20 A

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

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

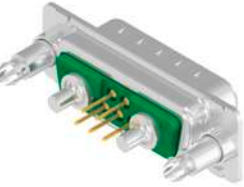
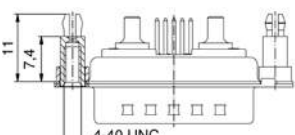
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

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

For other Power contacts select code from spread sheet

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

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

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

For other Power contacts select code from spread sheet

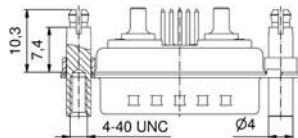
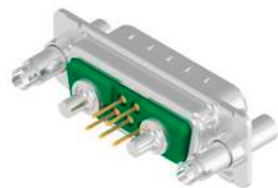
| Code | Current rating | Diameter solder pin |
|------|----------------|---------------------|
| 69   | 20 A           | 2.60                |
| 71   | 30 A           | 3.18                |
| 72   | 40 A           | 3.75                |

## COMBINATION D-SUB CONNECTORS

With signal contacts & high power contacts 20 A

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

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



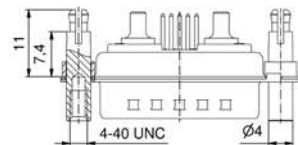
For other Power contacts select code from spread sheet

| 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       |


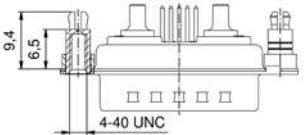
## COMBINATION D-SUB CONNECTORS

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

| 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             | 3005W1SAR69C20X         | 3005W1PAR69C20X       |
|   |  |  | 7W2          |                                    |                     |         |               | 3007W2SAR69C20X         | 3007W2PAR69C20X       |
|   |  |  | 9W4          |                                    |                     |         |               | 3009W4SAR69C20X         | 3009W4PAR69C20X       |
|   |  |  | 11W1         |                                    |                     |         |               | 3011W1SAR69C20X         | 3011W1PAR69C20X       |
|   |  |  | 13W3         |                                    |                     |         |               | 3013W3SAR69C20X         | 3013W3PAR69C20X       |
|   |  |  | 13W6         |                                    |                     |         |               | 3013W6SAR69C20X         | 3013W6PAR69C20X       |
|   |  |  | 17W2         |                                    |                     |         |               | 3017W2SAR69C20X         | 3017W2PAR69C20X       |
|   |  |  | 17W5         |                                    |                     |         |               | 3017W5SAR69C20X         | 3017W5PAR69C20X       |
|   |  |  | 21W1         |                                    |                     |         |               | 3021W1SAR69C20X         | 3021W1PAR69C20X       |
|   |  |  | 24W7         |                                    |                     |         |               | 3024W7SAR69C20X         | 3024W7PAR69C20X       |
|   |  |  | 25W3         |                                    |                     |         |               | 3025W3SAR69C20X         | 3025W3PAR69C20X       |
|   |  |  | 27W2         |                                    |                     |         |               | 3027W2SAR69C20X         | 3027W2PAR69C20X       |
|   |  |  | 36W4         |                                    |                     |         |               | 3036W4SAR69C20X         | 3036W4PAR69C20X       |
|   |  |  | 43W2         |                                    |                     |         |               | 3043W2SAR69C20X         | 3043W2PAR69C20X       |
|   |  |  | 47W1         |                                    |                     |         |               | 3047W1SAR69C20X         | 3047W1PAR69C20X       |
|   |  |  | 21WA4        |                                    |                     |         |               | 321WA4SAR69C20X         | 321WA4PAR69C20X       |

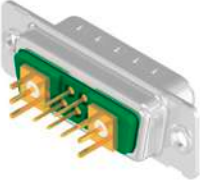
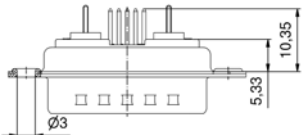
  

| For other Power contacts select code from spread sheet |                |                     |
|--|----------------|---------------------|
| Code   | Current rating | Diameter solder pin |
| 68   | 20 A           | 1.95                |
| 69   | 20 A           | 2.60                |
| 70   | 20 A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

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

Solder pin, straight  
Precision machined contacts

Through-hole Ø 3 mm


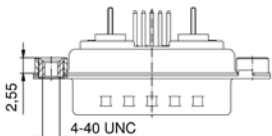
| Through-hole Ø 3 mm   |       | No. of poles           | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class   | Part No. Socket contact | Part No. Plug contact |
|---|-------|------------------------|------------------------------------|---------------------|---------|-----------------|-------------------------|-----------------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

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


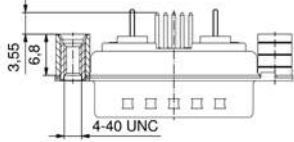
| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |

**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


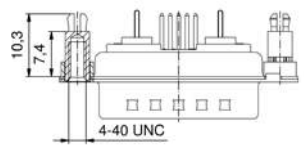
| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |



**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


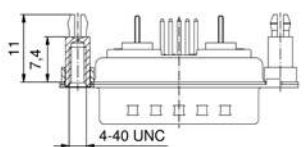
| 4-40 UNC threaded rear spacer clip for PCB 1.6 mm   |       | No. of poles           | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class   | Part No. Socket contact | Part No. Plug contact |
|---|-------|------------------------|------------------------------------|---------------------|---------|-----------------|-------------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

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |

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

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

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


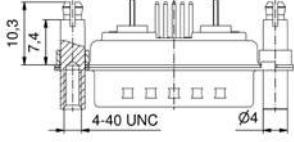
For other coaxial contacts select code from spread sheet

| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |

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

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

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

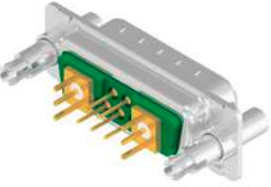
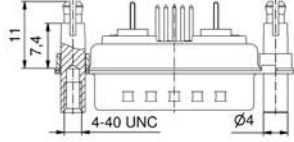
| 4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm  |       | No. of poles          | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class   | Part No. Socket contact | Part No. Plug contact |
|---|-------|-----------------------|------------------------------------|---------------------|---------|-----------------|---------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

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |

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

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

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


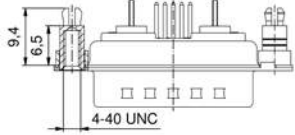
For other coaxial contacts select code from spread sheet

| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |

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

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

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

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

For other coaxial contacts select code from spread sheet


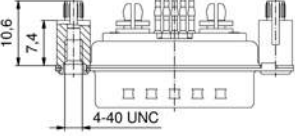
| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |

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

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

Press-fit, straight  
Precision machined contacts

4-40 UNC rear press-fit spacer

| 4-40 UNC rear press-fit spacer  |       | No. of poles           | Current rating signal contacts [A] | Working voltage [V] | UL-File | Quality class   | Part No. Socket contact | Part No. Plug contact |
|---|-------|------------------------|------------------------------------|---------------------|---------|-----------------|-------------------------|-----------------------|
|   | 5W1   | 75 (UL) / 5 (CSA, VDE) | 250                                | E228329             | 3       | 3005W1SAPP1W20X | 3005W1PAPP1W20X         |                       |
|   | 7W2   |                        |                                    |                     |         | 3007W2SAPP1W20X | 3007W2PAPP1W20X         |                       |
|   | 9W4   |                        |                                    |                     |         | 3009W4SAPP1W20X | 3009W4PAPP1W20X         |                       |
|   | 11W1  |                        |                                    |                     |         | 3011W1SAPP1W20X | 3011W1PAPP1W20X         |                       |
|   | 13W3  |                        |                                    |                     |         | 3013W3SAPP1W20X | 3013W3PAPP1W20X         |                       |
|   | 13W6  |                        |                                    |                     |         | 3013W6SAPP1W20X | 3013W6PAPP1W20X         |                       |
|   | 17W2  |                        |                                    |                     |         | 3017W2SAPP1W20X | 3017W2PAPP1W20X         |                       |
|   | 17W5  |                        |                                    |                     |         | 3017W5SAPP1W20X | 3017W5PAPP1W20X         |                       |
|   | 21W1  |                        |                                    |                     |         | 3021W1SAPP1W20X | 3021W1PAPP1W20X         |                       |
|   | 24W7  |                        |                                    |                     |         | 3024W7SAPP1W20X | 3024W7PAPP1W20X         |                       |
|   | 25W3  |                        |                                    |                     |         | 3025W3SAPP1W20X | 3025W3PAPP1W20X         |                       |
|   | 27W2  |                        |                                    |                     |         | 3027W2SAPP1W20X | 3027W2PAPP1W20X         |                       |
|   | 36W4  |                        |                                    |                     |         | 3036W4SAPP1W20X | 3036W4PAPP1W20X         |                       |
|   | 43W2  |                        |                                    |                     |         | 3043W2SAPP1W20X | 3043W2PAPP1W20X         |                       |
|   | 47W1  |                        |                                    |                     |         | 3047W1SAPP1W20X | 3047W1PAPP1W20X         |                       |
|   | 21WA4 |                        |                                    |                     |         | 321WA4SAPP1W20X | 321WA4PAPP1W20X         |                       |

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              |


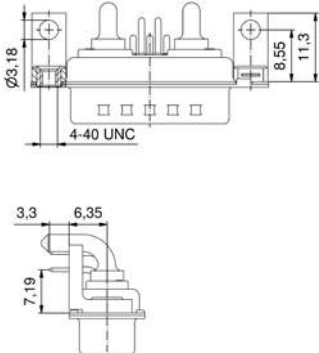
Shell: Steel tin plated  
Quality class 3 (A) = 50 mating cycles  
On request:  
• Brass tin plated or stainless steel  
• Quality class 1 (C) = 500 mating cycles  
• M3 thread

## 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


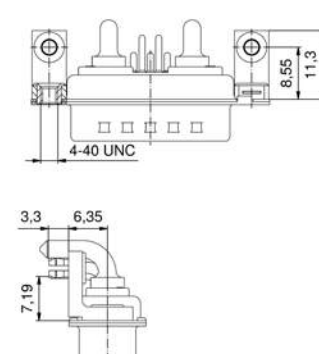
### 4-40 UNC threaded insert

| 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         |


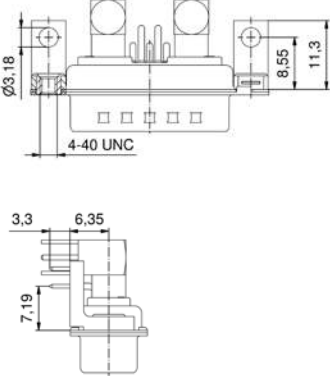
| For other Power contacts select code from spread sheet |           |                |                     |
|--|-----------|----------------|---------------------|
| Code   | Shellsize | Current rating | Diameter solder pin |
| 59   | 1-4       | 15 A           | 1.90                |
| 73   | 1-4       | 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


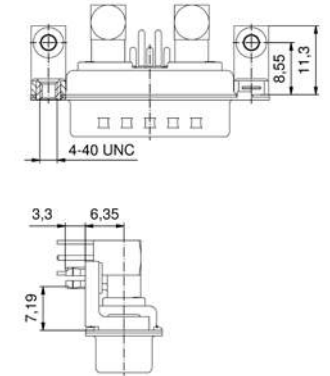
4-40 UNC threaded insert

| 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



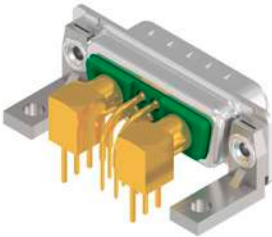
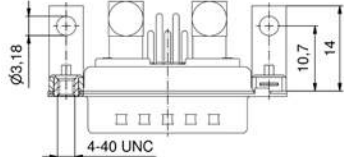
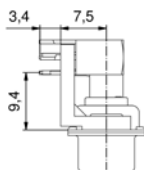


## COMBINATION D-SUB CONNECTORS

With signal contacts & coaxial contacts 50 Ω

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

### 4-40 UNC threaded insert

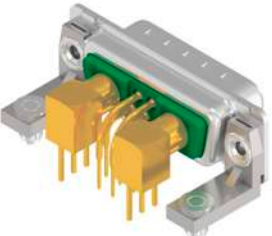
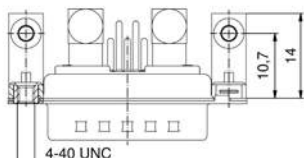
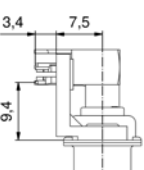
| 4-40 UNC threaded insert  |       |                        | No. of poles | Current rating signal contacts [A] | Working voltage [V] | UL-File         | Quality class | Part No. Socket contact |
|---|-------|------------------------|--------------|------------------------------------|---------------------|-----------------|---------------|---------------------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

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

For other coaxial contacts select code from spread sheet

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

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

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

For other coaxial contacts select code from spread sheet

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

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

Solder cup  
Precision machined contacts, AWG 22

Through-hole  $\varnothing$  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

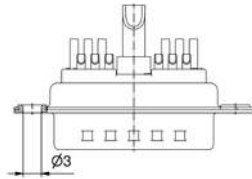
No. of poles

Current rating signal contacts [A]

Working voltage [V]

Quality class

Part No. Socket contact Part No. Plug contact



15W4

3H15W4SAM62A10X 3H15W4PAM62A10X

19W1

3H19W1SAM62A10X 3H19W1PAM62A10X

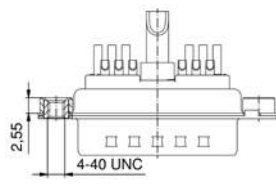
45W2

3H45W2SAM62A10X 3H45W2PAM62A10X

For other Power contacts select code from spread sheet

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

4-40 UNC threaded insert



15W4

3H15W4SAM62A30X 3H15W4PAM62A30X

19W1

3H19W1SAM62A30X 3H19W1PAM62A30X

45W2

3H45W2SAM62A30X 3H45W2PAM62A30X

For other Power contacts select code from spread sheet


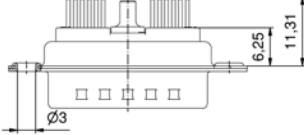
| Code | AWG   | Current rating |
|------|-------|----------------|
| 61   | 16-20 | 10 A           |
| 62   | 12-14 | 20 A           |
| 63   | 10-12 | 30 A           |
| 64   | 8-10  | 40 A           |

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


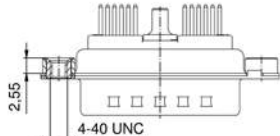
Solder pin, straight  
Precision machined contacts

Through-hole Ø 3 mm


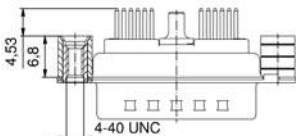
Shell: Steel tin plated  
Quality class 3 (A) = 50 mating cycles  
On request:  
• Brass tin plated or stainless steel  
• Quality class 1 (C) = 500 mating cycles  
• M3 thread

| 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            |                     |                                    |                     |                     |                         |                       |      |    |      |      |    |      |      |    |      |      |    |      |      |      |                         |    |   |                 |                 |
| 69  | 20 A   | 2.60            |                     |                                    |                     |                     |                         |                       |      |    |      |      |    |      |      |    |      |      |    |      |      |      |                         |    |   |                 |                 |
| 70  | 20 A   | 2.85            |                     |                                    |                     |                     |                         |                       |      |    |      |      |    |      |      |    |      |      |    |      |      |      |                         |    |   |                 |                 |
| 71  | 30 A   | 3.18            |                     |                                    |                     |                     |                         |                       |      |    |      |      |    |      |      |    |      |      |    |      |      |      |                         |    |   |                 |                 |
| 72  | 40 A   | 3.75            |                     |                                    |                     |                     |                         |                       |      |    |      |      |    |      |      |    |      |      |    |      |      |      |                         |    |   |                 |                 |
| 19W1  | 3H19W1SAR69A10X  | 3H19W1PAR69A10X |                     |                                    |                     |                     |                         |                       |      |    |      |      |    |      |      |    |      |      |    |      |      |      |                         |    |   |                 |                 |
| 45W2  | 3H45W2SAR69A10X  | 3H45W2PAR69A10X |                     |                                    |                     |                     |                         |                       |      |    |      |      |    |      |      |    |      |      |    |      |      |      |                         |    |   |                 |                 |

4-40 UNC threaded insert

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

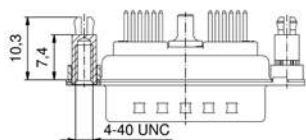
4-40 UNC threaded rear spacer

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

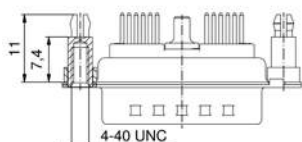
3H19W1PAR69E20X

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

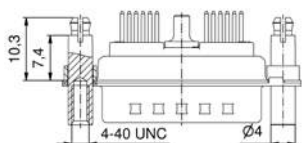
3H19W1PAR69E40X

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

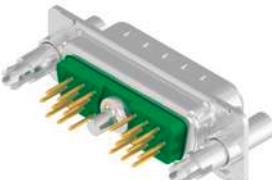
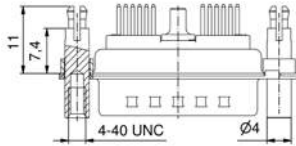
3H45W2SAR69F20X

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


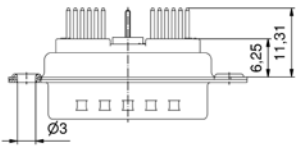
| 4-40 UNC front, threaded rear spacer clip for PCB 2.3 mm  |                |                         | No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class   | Part No. Socket contact | Part No. Plug contact |
|---|----------------|-------------------------|--------------|------------------------------------|---------------------|-----------------|-------------------------|-----------------------|
|   | 15W4           | 3 (UL, VDE) / 2.5 (CSA) | 60           | 3                                  | 3H15W4SAR69F40X     | 3H15W4PAR69F40X |                         |                       |
|   | 19W1           |                         |              |                                    | 3H19W1SAR69F40X     | 3H19W1PAR69F40X |                         |                       |
|   | 45W2           |                         |              |                                    | 3H45W2SAR69F40X     | 3H45W2PAR69F40X |                         |                       |
| 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 HIGH DENSITY With signal contacts & coaxial contacts 50 Ω


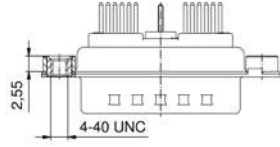
Solder pin, straight  
Precision machined contacts

Through-hole Ø 3 mm

| Through-hole Ø 3 mm   |           |                         | No. of poles | Current rating signal contacts [A] | Working voltage [V] | 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 |                         |                       |
| 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


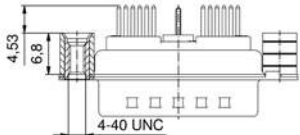
| 4-40 UNC threaded insert  |           |                         | No. of poles | Current rating signal contacts [A] | Working voltage [V] | Quality class   | Part No. Socket contact | Part No. Plug contact |
|---|-----------|-------------------------|--------------|------------------------------------|---------------------|-----------------|-------------------------|-----------------------|
|   | 15W4      | 3 (UL, VDE) / 2.5 (CSA) | 60           | 3                                  | 3H15W4SAR76A30X     | 3H15W4PAR76A30X |                         |                       |
|   | 19W1      |                         |              |                                    | 3H19W1SAR76A30X     | 3H19W1PAR76A30X |                         |                       |
|   | 45W2      |                         |              |                                    | 3H45W2SAR76A30X     | 3H45W2PAR76A30X |                         |                       |
| For other coaxial contacts select code from spread sheet  |           |                         |              |                                    |                     |                 |                         |                       |
| Code  | Impedance |                         |              |                                    |                     |                 |                         |                       |
| 76  | 50 Ω      |                         |              |                                    |                     |                 |                         |                       |
| 86  | 75 Ω      |                         |              |                                    |                     |                 |                         |                       |



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

Solder pin, straight  
Precision machined contacts


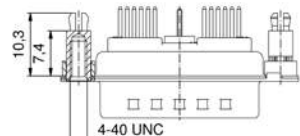
4-40 UNC threaded rear spacer

| 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      |


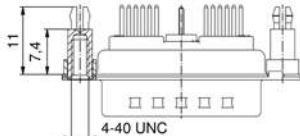
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

| 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


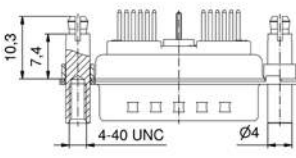
| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |

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

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


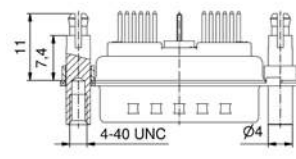
| 4-40 UNC front, threaded rear spacer clip for PCB 1,6 mm  |      | No. of poles            | Current rating signal contacts [A] | Working voltage [V] | Quality class   | Part No. Socket contact | Part No. Plug contact |
|---|------|-------------------------|------------------------------------|---------------------|-----------------|-------------------------|-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

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

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |

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

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

For other coaxial contacts select code from spread sheet

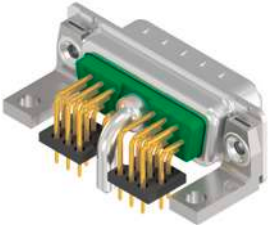
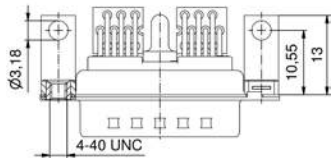
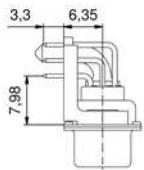
| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |

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


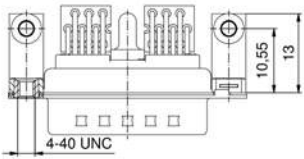
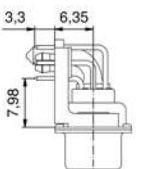
Solder pin, angled, 3.50"/7.98 mm  
Precision machined contacts, metal bracket

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

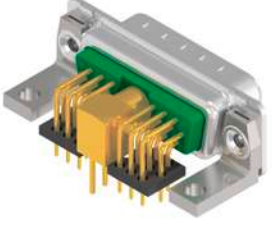
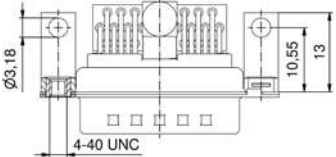
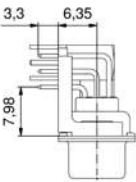
| Clip for PCB 1.6 mm, 4-40 UNC threaded insert  |  | No. of poles    | Current rating signal contacts [A] | Working voltage [V] | Quality class  | Part No. Socket contact | Part No. Plug contact |      |      |    |      |      |    |      |      |    |      |      |      |                         |    |   |                 |                 |
|--|--|-----------------|------------------------------------|---------------------|----------------|-------------------------|-----------------------|------|------|----|------|------|----|------|------|----|------|------|------|-------------------------|----|---|-----------------|-----------------|
|    <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                |                     |                |                         |                       |      |      |    |      |      |    |      |      |    |      |      |      |                         |    |   |                 |                 |
| 59   | 15 A   | 1.90            |                                    |                     |                |                         |                       |      |      |    |      |      |    |      |      |    |      |      |      |                         |    |   |                 |                 |
| 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


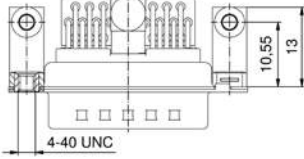
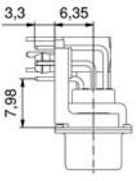
Solder pin, angled, 3.50"/7.98 mm  
Precision machined contacts, metal bracket

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

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

| 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"> <tr> <td colspan="2">For other coaxial contacts select code from spread sheet</td> </tr> <tr> <th>Code</th> <th>Impedance</th> </tr> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </table> | For other coaxial contacts select code from spread sheet |                 | Code                               | Impedance           | 78            | 50 Ω                    | 88                    | 75 Ω | 15W4 | 3 (UL, VDE) / 2.5 (CSA) | 60 | 3 | 3H15W4SAT78G80X | 3H15W4PAT78G80X |
|  | For other coaxial contacts select code from spread sheet |                 |                                    |                     |               |                         |                       |      |      |                         |    |   |                 |                 |
|  | 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

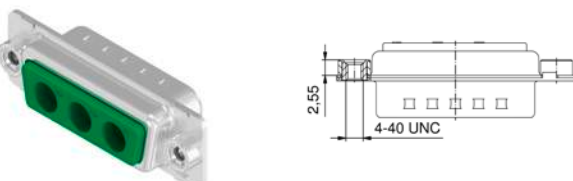
Part No. Socket contact    Part No. Plug contact

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

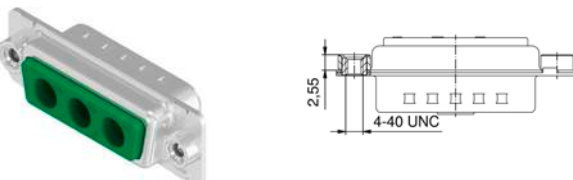
Through-hole Ø 3 mm, coded version

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

4-40 UNC threaded insert

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


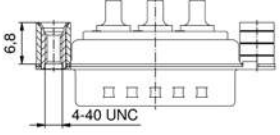
4-40 UNC threaded insert, coded version

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


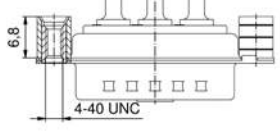
## COMBINATION D-SUB CONNECTORS With high power contacts 20 A

Solder pin, straight


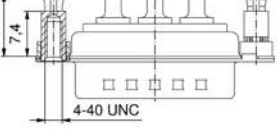
4-40 UNC threaded rear spacer

| 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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|   | 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            |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |
| 5W5   | 3005W5SXX69A50X  | 3005W5PXX69A50X |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |
| 8W8   | 3008W8SXX69A50X  | 3008W8PXX69A50X |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |

4-40 UNC, threaded rear spacer, coded version

| 4-40 UNC, threaded rear spacer, coded version   |  | No. of poles        | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |    |      |      |    |      |      |    |      |      |    |      |      |    |      |      |      |         |   |                 |                 |
|---|--|---------------------|---------|---------------|-------------------------|-----------------------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|------|---------|---|-----------------|-----------------|
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|   | 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                |         |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |    |      |      |      |         |   |                 |                 |
| 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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|   | 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            |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |
| 5W5   | 3005W5SXX69E20X  | 3005W5PXX69E20X |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |
| 8W8   | 3008W8SXX69E20X  | 3008W8PXX69E20X |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |

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

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

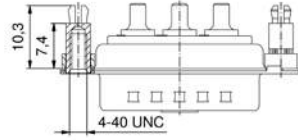
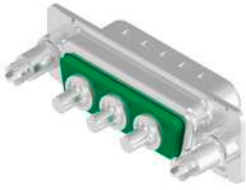
4-40 UNC threaded rear spacer clip for PCB 1.6 mm, coded version

No. of poles

UL-File

Quality class

Part No. Socket contact Part No. Plug contact



2W2C

E228329

3

302W2CSXX69E20X 302W2CPXX69E20X

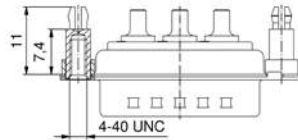
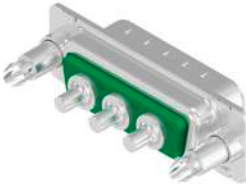
For other Power contacts select code from spread sheet

| 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                |

3W3C

303W3CSXX69E20X 303W3CPXX69E20X

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



3W3

E228329

3

3003W3SXX69E40X 3003W3PXX69E40X

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                |

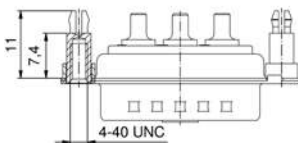
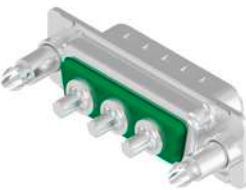
5W5

3005W5SXX69E40X 3005W5PXX69E40X

8W8

3008W8SXX69E40X 3008W8PXX69E40X

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



2W2C

E228329

3

302W2CSXX69E40X 302W2CPXX69E40X

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                |

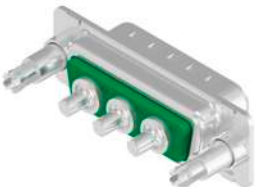
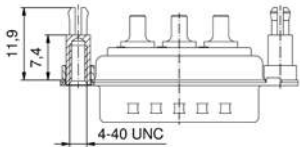
3W3C

303W3CSXX69E40X 303W3CPXX69E40X

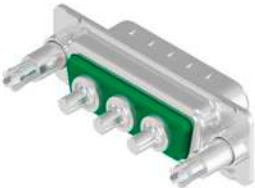
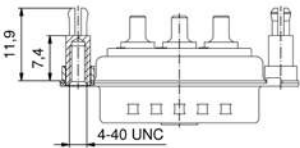
## COMBINATION D-SUB CONNECTORS With high power contacts 20 A

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       |      |    |      |      |    |      |      |  |  |  |  |  |
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| 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


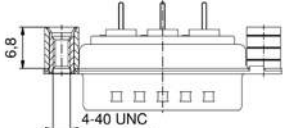
| 4-40 UNC threaded rear spacer clip for PCB 3.2 mm, coded version   |                | No. of poles        | UL-File        | Quality class       | Part No. Socket contact | Part No. Plug contact |      |    |      |      |    |      |      |  |  |  |  |  |
|--|----------------|---------------------|----------------|---------------------|-------------------------|-----------------------|------|----|------|------|----|------|------|--|--|--|--|--|
|    |                | 2W2C                | E228329        | 3                   | 302W2CSXX69E60X         | 302W2CPXX69E60X       |      |    |      |      |    |      |      |  |  |  |  |  |
|  |                | 3W3C                |                |                     | 303W3CSXX69E60X         | 303W3CPXX69E60X       |      |    |      |      |    |      |      |  |  |  |  |  |
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| 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


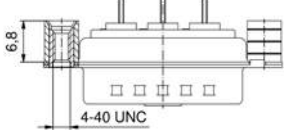
## COMBINATION D-SUB CONNECTORS With coaxial contacts 50 Ω

Solder pin, straight


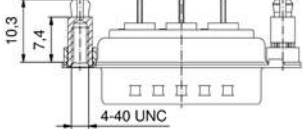
4-40 UNC threaded rear spacer

| 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

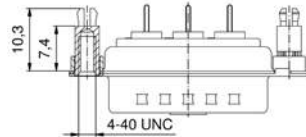
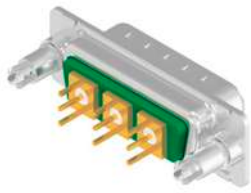
4-40 UNC threaded rear spacer clip for PCB 1.6 mm, coded version

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

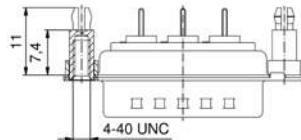
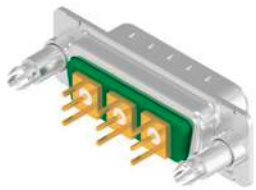
| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |

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

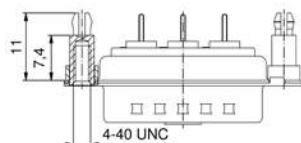
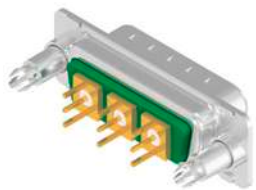
3005W5PXX76E40X

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

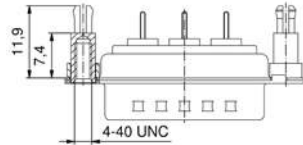
303W3CSXX76E40X

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



For other coaxial contacts select code from spread sheet

| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 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

3W3

E228329

3

3003W3SXX76E60X    3003W3PXX76E60X

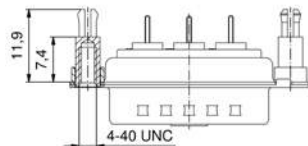
5W5

3005W5SXX76E60X    3005W5PXX76E60X

8W8

3008W8SXX76E60X    3008W8PXX76E60X

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



For other coaxial contacts select code from spread sheet

| Code | Impedance |
|------|-----------|
| 76   | 50 Ω      |
| 86   | 75 Ω      |

2W2C

E228329

3

302W2CSXX76E60X    302W2CPXX76E60X

3W3C


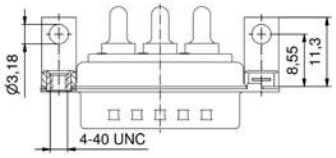
303W3CSXX76E60X    303W3CPXX76E60X

## COMBINATION D-SUB CONNECTORS


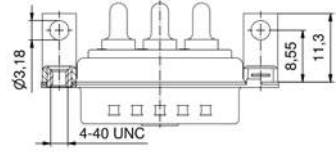
### With high power contacts 20 A

Solder pin, angled  
Short metal bracket


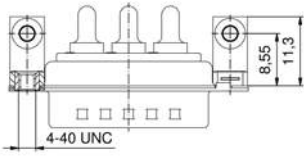
#### 4-40 UNC threaded insert

| 4-40 UNC threaded insert   |  | No. of poles    | UL-File             | Quality class | Part No. Socket contact | Part No. Plug contact |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |
|--|--|-----------------|---------------------|---------------|-------------------------|-----------------------|----|------|------|----|------|------|----|------|------|----|------|------|-----|---------|---|-----------------|-----------------|
|   <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>59</td> <td>15 A</td> <td>1.90</td> </tr> <tr> <td>73</td> <td>20 A</td> <td>2.85</td> </tr> <tr> <td>74</td> <td>30 A</td> <td>3.20</td> </tr> <tr> <td>75</td> <td>40 A</td> <td>3.75</td> </tr> </tbody> </table> | For other Power contacts select code from spread sheet |                 |                     | Code          | Current rating          | Diameter solder pin   | 59 | 15 A | 1.90 | 73 | 20 A | 2.85 | 74 | 30 A | 3.20 | 75 | 40 A | 3.75 | 3W3 | E228329 | 3 | 3003W3SXX73N20X | 3003W3PXX73N20X |
|  | 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            |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |
| 5W5  | 3005W5SXX73N20X  | 3005W5PXX73N20X |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |
| 8W8  | 3008W8SXX73N20X  | 3008W8PXX73N20X |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |

#### 4-40 UNC threaded insert, coded version

| 4-40 UNC threaded insert, coded version  |  | No. of poles        | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |    |      |      |    |      |      |    |      |      |    |      |      |      |         |   |                 |                 |
|--|--|---------------------|---------|---------------|-------------------------|-----------------------|----|------|------|----|------|------|----|------|------|----|------|------|------|---------|---|-----------------|-----------------|
|   <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>59</td> <td>15 A</td> <td>1.90</td> </tr> <tr> <td>73</td> <td>20 A</td> <td>2.85</td> </tr> <tr> <td>74</td> <td>30 A</td> <td>3.20</td> </tr> <tr> <td>75</td> <td>40 A</td> <td>3.75</td> </tr> </tbody> </table> | For other Power contacts select code from spread sheet |                     |         | Code          | Current rating          | Diameter solder pin   | 59 | 15 A | 1.90 | 73 | 20 A | 2.85 | 74 | 30 A | 3.20 | 75 | 40 A | 3.75 | 2W2C | E228329 | 3 | 302W2CSXX73N20X | 302W2CPXX73N20X |
|  | 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                |         |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |      |         |   |                 |                 |
| 3W3C   | 303W3CSXX73N20X  | 303W3CPXX73N20X     |         |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |      |         |   |                 |                 |

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

| Clip for PCB 1.6 mm, 4-40 UNC threaded insert  |  | No. of poles    | UL-File             | Quality class | Part No. Socket contact | Part No. Plug contact |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |
|--|--|-----------------|---------------------|---------------|-------------------------|-----------------------|----|------|------|----|------|------|----|------|------|----|------|------|-----|---------|---|-----------------|-----------------|
|   <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>59</td> <td>15 A</td> <td>1.90</td> </tr> <tr> <td>73</td> <td>20 A</td> <td>2.85</td> </tr> <tr> <td>74</td> <td>30 A</td> <td>3.20</td> </tr> <tr> <td>75</td> <td>40 A</td> <td>3.75</td> </tr> </tbody> </table> | For other Power contacts select code from spread sheet |                 |                     | Code          | Current rating          | Diameter solder pin   | 59 | 15 A | 1.90 | 73 | 20 A | 2.85 | 74 | 30 A | 3.20 | 75 | 40 A | 3.75 | 3W3 | E228329 | 3 | 3003W3SXX73N40X | 3003W3PXX73N40X |
|  | 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            |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |
| 5W5  | 3005W5SXX73N40X  | 3005W5PXX73N40X |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |
| 8W8  | 3008W8SXX73N40X  | 3008W8PXX73N40X |                     |               |                         |                       |    |      |      |    |      |      |    |      |      |    |      |      |     |         |   |                 |                 |

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

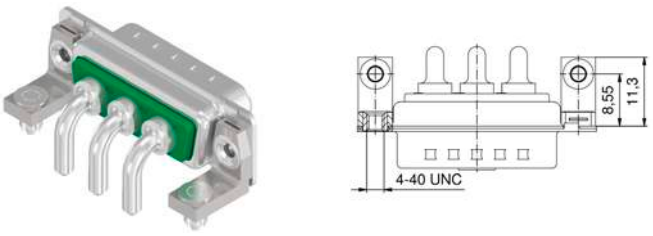


## COMBINATION D-SUB CONNECTORS With high power contacts 20 A

Solder pin, angled  
Short metal bracket

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

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

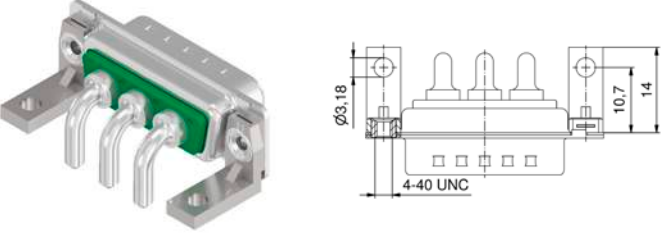
| Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version                      |      | No. of poles | UL-File | Quality class   | Part No. Socket contact | Part No. Plug contact |
|---|------|--------------|---------|-----------------|-------------------------|-----------------------|
|  | 2W2C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

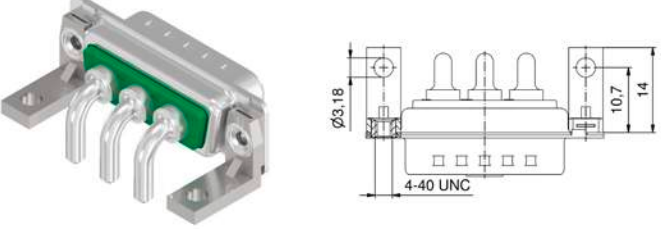
4-40 UNC threaded insert

|   |     |         |   |                 |                 |
|---|-----|---------|---|-----------------|-----------------|
|  | 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 |


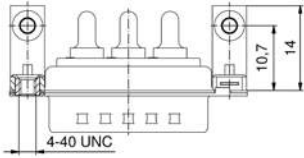
  

| For other Power contacts select code from spread sheet |                |                     |
|--|----------------|---------------------|
| Code   | Current rating | Diameter solder pin |
| 59   | 15 A           | 1.90                |
| 73   | 20 A           | 2.85                |
| 74   | 30 A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

**COMBINATION D-SUB CONNECTORS**  
With high power contacts 20 A

Solder pin, angled  
Long metal bracket


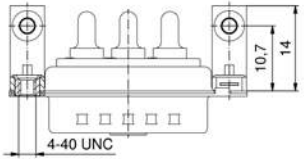
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

| 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         |         |               |                         |                                 |

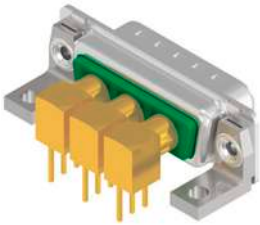
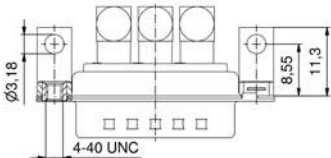
| For other Power contacts select code from spread sheet |                |                     |
|--|----------------|---------------------|
| Code   | Current rating | Diameter solder pin |
| 59   | 15 A           | 1.90                |
| 73   | 20 A           | 2.85                |
| 74   | 30 A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

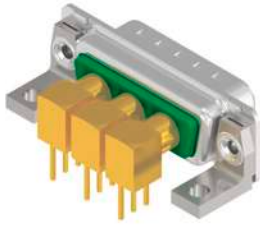
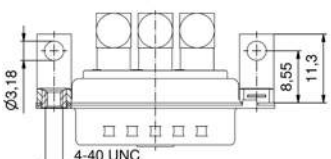
**COMBINATION D-SUB CONNECTORS**  
With coaxial contacts 50 Ω

Solder pin, angled  
Short metal bracket

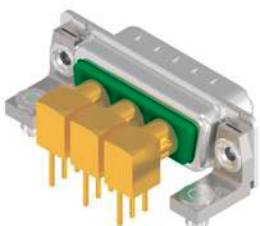
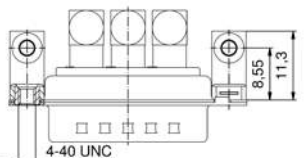
4-40 UNC threaded insert

|     |                 | 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

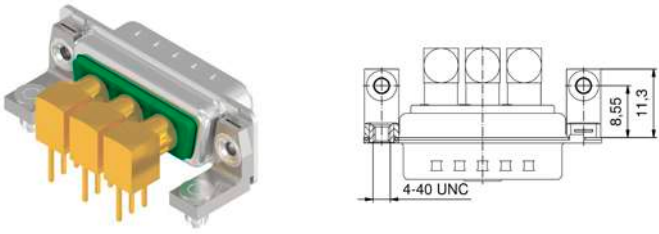
|     |                 | No. of poles    | UL-File   | Quality class | Part No. Socket contact | Part No. Plug contact |      |     |         |   |                 |                 |
|---|-----------------|-----------------|-----------|---------------|-------------------------|-----------------------|------|-----|---------|---|-----------------|-----------------|
| <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

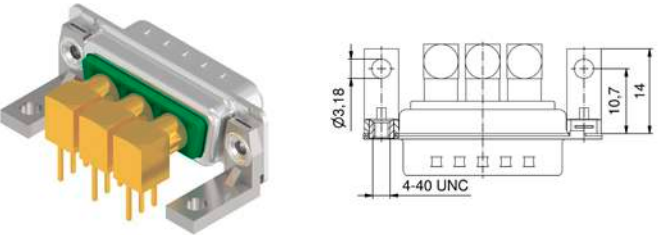
Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version

|    |           | No. of poles | UL-File         | Quality class   | Part No.       |              |      |      |         |   |                 |                 |
|---|-----------|--------------|-----------------|-----------------|----------------|--------------|------|------|---------|---|-----------------|-----------------|
|   |           |              |                 |                 | Socket contact | Plug contact |      |      |         |   |                 |                 |
| <p>For other coaxial contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>78</td> <td>50 Ω</td> </tr> <tr> <td>88</td> <td>75 Ω</td> </tr> </tbody> </table> |           | Code         | Impedance       | 78              | 50 Ω           | 88           | 75 Ω | 2W2C | E228329 | 3 | 302W2CSXX78N40X | 302W2CPXX78N40X |
| Code  | Impedance |              |                 |                 |                |              |      |      |         |   |                 |                 |
| 78  | 50 Ω      |              |                 |                 |                |              |      |      |         |   |                 |                 |
| 88  | 75 Ω      |              |                 |                 |                |              |      |      |         |   |                 |                 |
|   |           | 3W3C         | 303W3CSXX78N40X | 303W3CPXX78N40X |                |              |      |      |         |   |                 |                 |

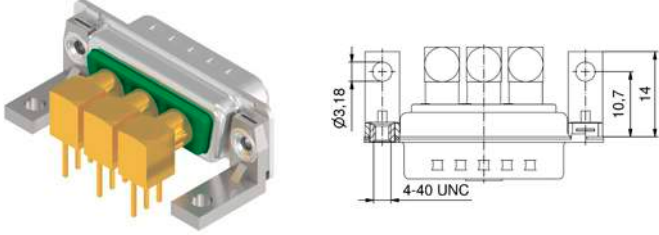
Shell: Steel tin plated  
Quality class 3 (A) = 50 mating cycles  
On request:  
• Brass tin plated or stainless steel  
• Quality class J >= 500 mating cycles  
• M3 thread

Solder pin, angled  
Long metal bracket

4-40 UNC threaded insert

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

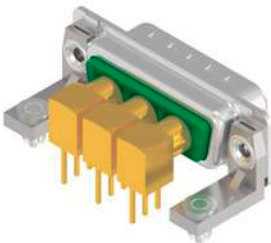
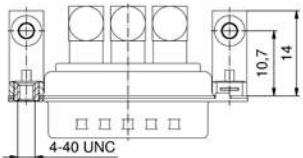
4-40 UNC threaded insert, coded version

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

**COMBINATION D-SUB CONNECTORS**  
With coaxial contacts 50 Ω

Solder pin, angled  
Long metal bracket

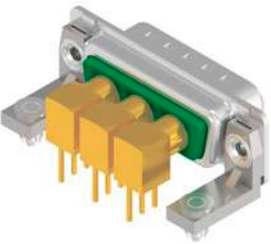
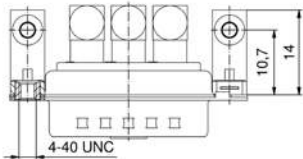
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

| Clip for PCB 1.6 mm, 4-40 UNC threaded insert   |  | No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|--|--------------|---------|---------------|-------------------------|-----------------------|
|   |  | 3W3          | E228329 | 3             | 3003W3SXX78G40X         | 3003W3PXX78G40X       |
|   |  | 5W5          |         |               | 3005W5SXX78G40X         | 3005W5PXX78G40X       |
|   |  | 8W8          |         |               | 3008W8SXX78G40X         | 3008W8PXX78G40X       |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|------|-----------|
| 78   | 50 Ω      |
| 88   | 75 Ω      |

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

| Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version  |  | No. of poles | UL-File | Quality class | Part No. Socket contact | Part No. Plug contact |
|---|--|--------------|---------|---------------|-------------------------|-----------------------|
|   |  | 2W2C         | E228329 | 3             | 302W2CSXX78G40X         | 302W2CPXX78G40X       |
|   |  | 3W3C         |         |               | 303W3CSXX78G40X         | 303W3CPXX78G40X       |

For other coaxial contacts select code from spread sheet

| Code | Impedance |
|------|-----------|
| 78   | 50 Ω      |
| 88   | 75 Ω      |


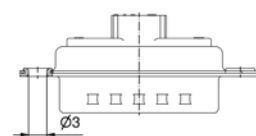
Shell: Steel tin plated  
Quality class 3 (A) = 50 mating cycles  
On request:  
• Brass tin plated or stainless steel  
• Quality class J >= 500 mating cycles  
• M3 thread

## COMBINATION D-SUB CONNECTORS Without contacts


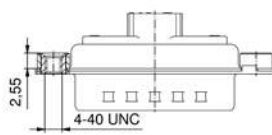
Crimp body  
AWG 20-24 and AWG 26-28

Through-hole  $\varnothing$  3 mm

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

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

4-40 UNC threaded insert


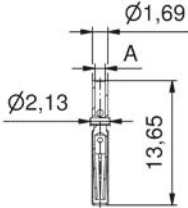
|   | No. of poles | UL-File         | Part No. Socket contact | Part No. Plug contact |
|---|--------------|-----------------|-------------------------|-----------------------|
|   |              |                 | 5W1                     | E228329               |
| 7W2   |              | 3007W2SXX99A30X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



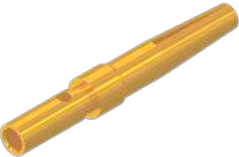
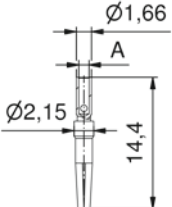
## COMBINATION D-SUB CONNECTORS Contacts

### Signal contacts crimp

#### Socket contact closed entry

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


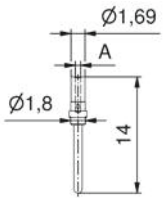
#### Socket contact

|   |       |                        |      |   |         |            |
|---|-------|------------------------|------|---|---------|------------|
|   | 20-24 | 75 (UL) / 5 (CSA, VDE) | 1.12 | A | E228329 | 162A18709X |
|   | 24-28 |                        | 0.64 |   |         | 162A18719X |

## COMBINATION D-SUB CONNECTORS Contacts

### Signal contacts crimp

#### Plug contact

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

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

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

## COMBINATION D-SUB CONNECTORS Contacts

High power contacts  
Solder cup, straight

Socket contact

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

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

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 |          |

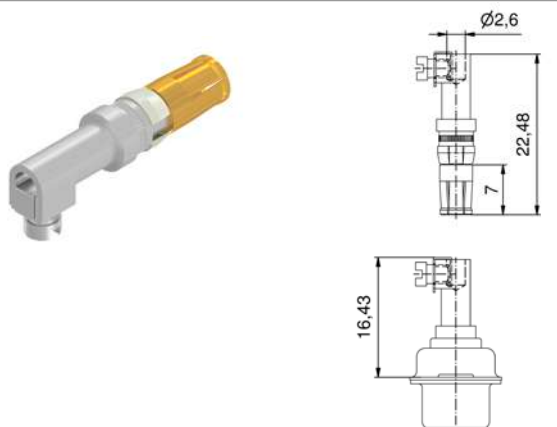
Quality class 1 (C) = 500 mating cycles  
On request:  
• Quality class 3 (A) = 50 mating cycles

## COMBINATION D-SUB CONNECTORS Contacts

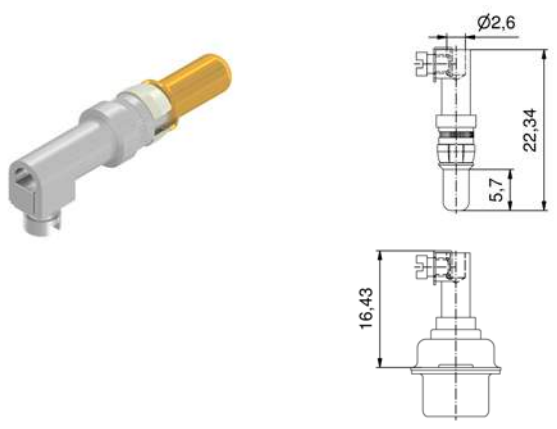
### High power contacts Screw termination

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

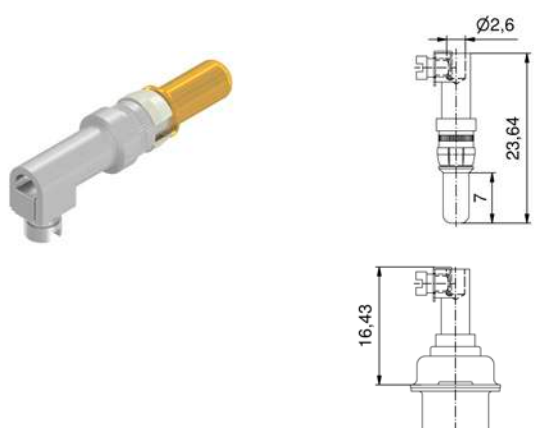
#### Socket contact

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

#### Plug contact

|  |    |    |         |                 |
|--|----|----|---------|-----------------|
|  | 14 | 20 | E228329 | C<br>131C36009X |
|  |    |    |         | A<br>131A36009X |

#### Plug contact, premating

|   |    |    |              |            |
|---|----|----|--------------|------------|
|  | 14 | 20 | C<br>E228329 | 131C36109X |
|---|----|----|--------------|------------|

## COMBINATION D-SUB CONNECTORS Contacts

### High power contacts Crimp, straight

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

#### Socket contact

| 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 |     |   |         |            |

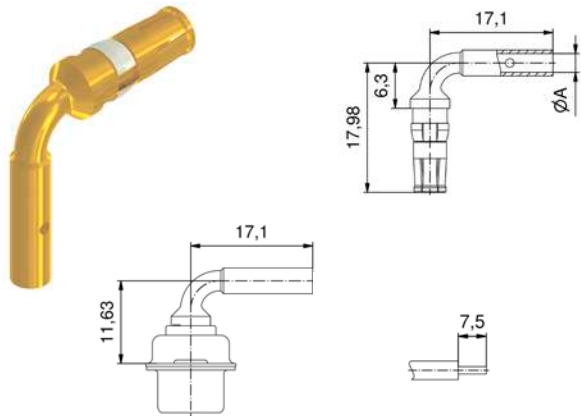
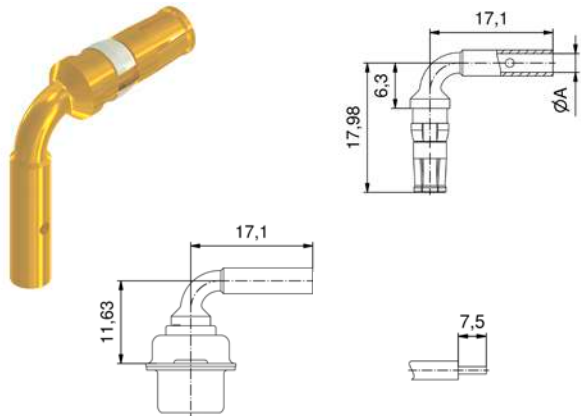
#### Plug contact, premating

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

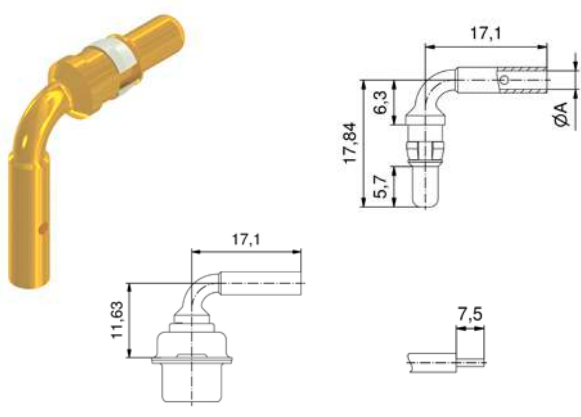
## COMBINATION D-SUB CONNECTORS Contacts

### High power contacts Crimp, angled

#### Socket contact

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

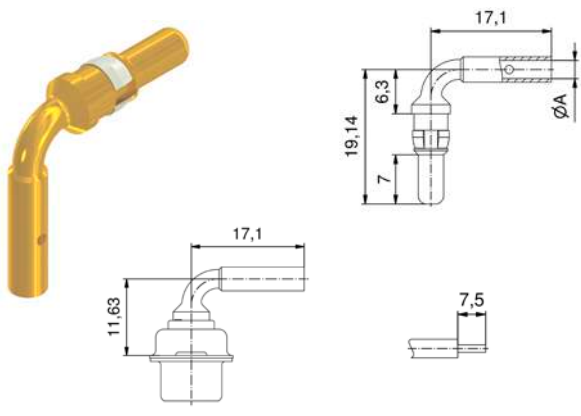
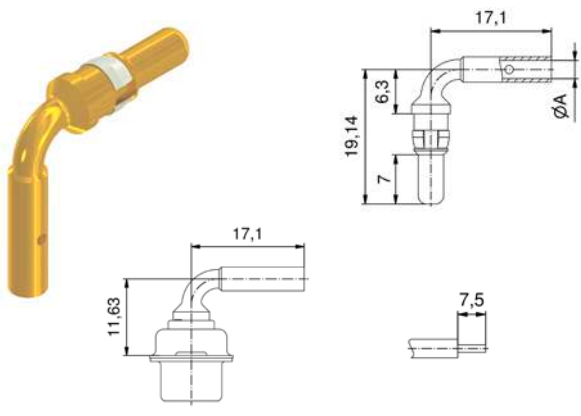
#### Plug contact

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

## 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

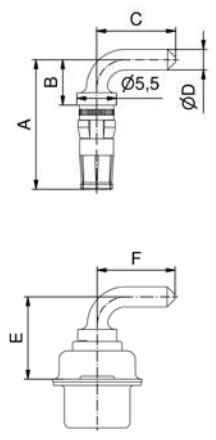
## COMBINATION D-SUB CONNECTORS Contacts

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



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

## COMBINATION D-SUB CONNECTORS Contacts

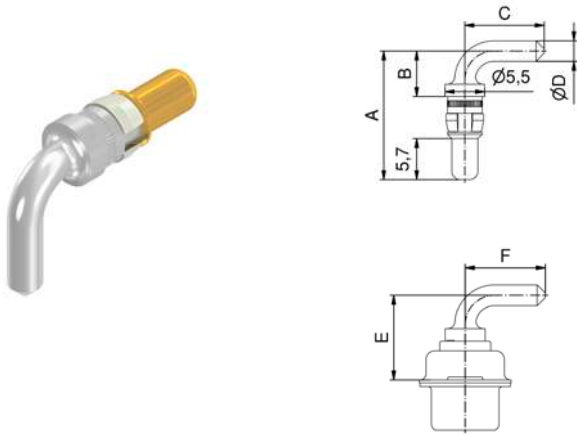
High power contacts  
Solder pin, angled

Plug contact

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

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

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



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



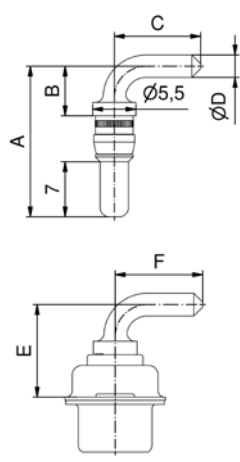
# COMBINATION D-SUB CONNECTORS Contacts

High power contacts  
Solder pin, angled

Plug contact, premating

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

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



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

## COMBINATION D-SUB CONNECTORS Contacts


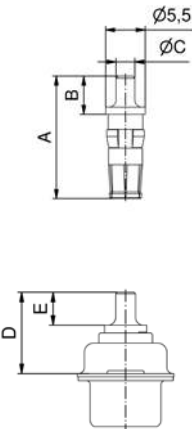
High power contacts  
Solder pin, straight

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

### Socket contact


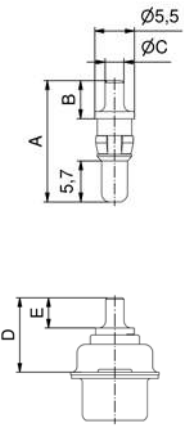
Shell size  
Current rating [A]  
Code use with part no. creator  
Hole diameter of PCB [mm]  
Quality class  
UL-File

Part No.

|   |     |    |     |     |   |         |            |
|---|-----|----|-----|-----|---|---------|------------|
|   | 1-5 | 20 | 48  | 2.3 | C | E228329 | 132C12019X |
|   |     |    | 68  |     | A |         | 132A12019X |
|   |     |    | 49  | 3   | C |         | 132C12029X |
|   |     |    | 69  |     | A |         | 132A12029X |
|   |     |    | 50  | 3.2 | C |         | 132C12039X |
|   |     |    | 70  |     | A |         | 132A12039X |
|   |     | 30 | 3.6 | 51  | C |         | 132C12049X |
|   |     |    |     | 71  | A |         | 132A12049X |
|   |     | 40 | 4.1 | 52  | 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

|   |     |    |     |     |   |         |            |
|---|-----|----|-----|-----|---|---------|------------|
|   | 1-5 | 20 | 48  | 2.3 | C | E228329 | 131C12019X |
|   |     |    | 68  |     | A |         | 131A12019X |
|   |     |    | 49  | 3   | C |         | 131C12029X |
|   |     |    | 69  |     | A |         | 131A12029X |
|   |     |    | 50  | 3.2 | C |         | 131C12039X |
|   |     |    | 70  |     | A |         | 131A12039X |
|   |     | 30 | 3.6 | 51  | C |         | 131C12049X |
|   |     |    |     | 71  | A |         | 131A12049X |
|   |     | 40 | 4.1 | 52  | 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

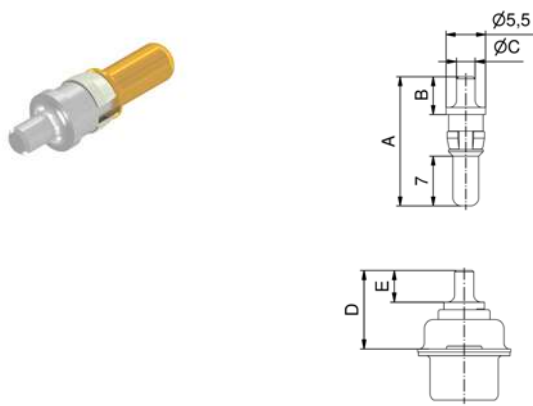
Plug contact, premating

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 |
|            | 30                 | 131C12149X                |               |            |
|            | 40                 | 4.1                       |               | 131C12159X |

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

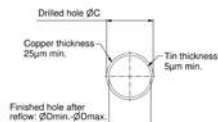
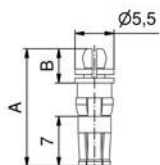
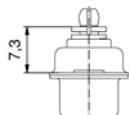


# COMBINATION D-SUB CONNECTORS Contacts

## 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

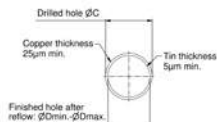
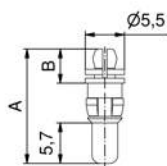
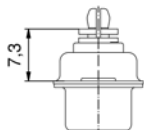


| Shell size | Current rating [A] | Code use with part no. creator | Hole diameter of PCB [mm] | Quality class | UL-File |
|------------|--------------------|--------------------------------|---------------------------|---------------|---------|
| 1-5        | 30                 | P1                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

| Part No.   |
|------------|
| 132C00229A |
| 132C00299A |
| 132C19019X |

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

### Plug contact



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

| Part No.   |
|------------|
| 131C00319A |
| 131C00389A |
| 131C19019X |

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

## COMBINATION D-SUB CONNECTORS Contacts

High voltage contacts  
Solder termination, straight

Quality class J  $\geq$  500 mating cycles

Socket contact

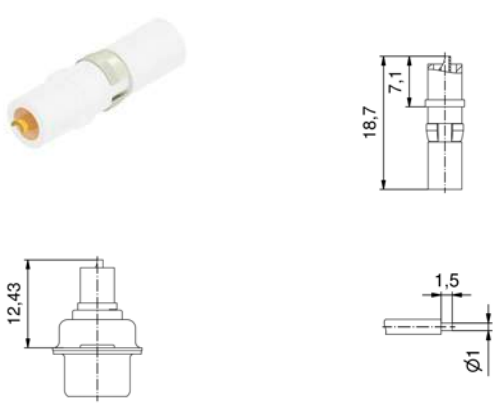
AWG

Working voltage max. [kV]

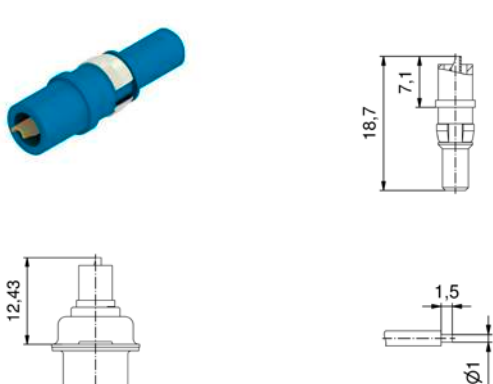
Quality class

UL-File

Part No.

|   |    |     |   |         |            |
|---|----|-----|---|---------|------------|
|  | 20 | 2.8 | J | E228329 | 132J14019X |
|---|----|-----|---|---------|------------|

Plug contact

|  |    |     |   |         |            |
|--|----|-----|---|---------|------------|
|  | 20 | 2.8 | J | E228329 | 131J14019X |
|--|----|-----|---|---------|------------|

## COMBINATION D-SUB CONNECTORS Contacts

High voltage contacts  
Solder termination, angled

Quality class J  $\geq$  500 mating cycles

Socket contact

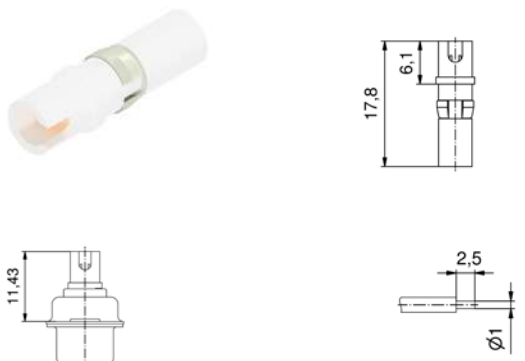
AWG

Working voltage max. [kV]

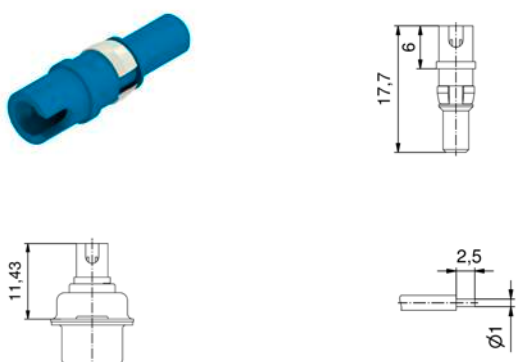
Quality class

UL-File

Part No.

|   |    |     |   |         |            |
|---|----|-----|---|---------|------------|
|  <p>Technical drawing of a socket contact showing dimensions: 17.8 mm total length, 6.1 mm contact length, 11.43 mm shell width, 2.5 mm shell thickness, and <math>\varnothing 1</math> mm shell diameter.</p> | 20 | 2.8 | J | E228329 | 132J14519X |
|---|----|-----|---|---------|------------|

Plug contact

|  |    |     |   |         |            |
|--|----|-----|---|---------|------------|
|  <p>Technical drawing of a plug contact showing dimensions: 17.7 mm total length, 6 mm contact length, 11.43 mm shell width, 2.5 mm shell thickness, and <math>\varnothing 1</math> mm shell diameter.</p> | 20 | 2.8 | J | E228329 | 131J14519X |
|--|----|-----|---|---------|------------|

## COMBINATION D-SUB CONNECTORS Contacts

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

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

### Socket contact

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

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

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



## COMBINATION D-SUB CONNECTORS Contacts

Coaxial contacts, straight  
Inner and outer conductor crimp termination

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

Socket contact

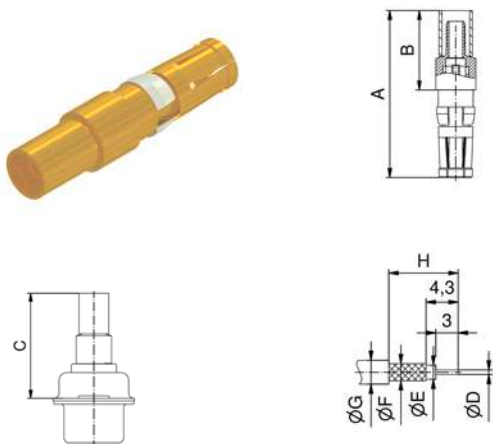
Impedance [ $\Omega$ ]

Cable

Quality class

UL-File

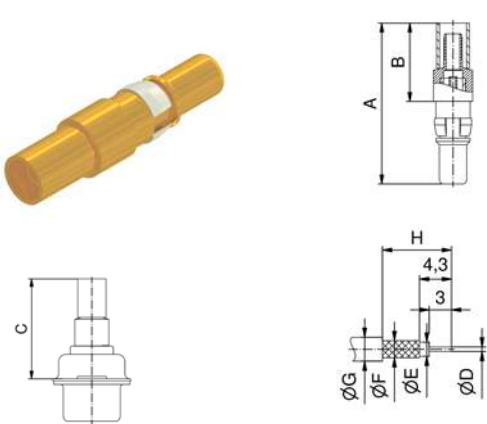
Part No.



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

| Impedance $\Omega$ | 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



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

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

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

| Impedance $\Omega$ | 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 [ $\Omega$ ] | 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


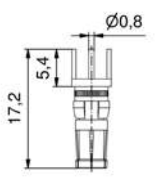
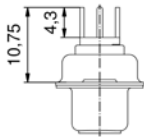
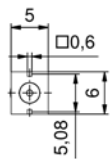
|  |    |                         |   |            |            |
|--|----|-------------------------|---|------------|------------|
|  | 50 | 174 /U, 188 A/U, 316 /U | J | E228329    | 131J23019X |
|  |    |                         | A |            | 131A23019X |
|  | 75 | 179 B/U, 187 A/U        | J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

## COMBINATION D-SUB CONNECTORS Contacts


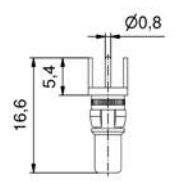
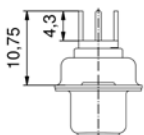
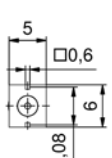
Coaxial contacts, straight  
PCB termination, 3 solder pins

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

Socket contact

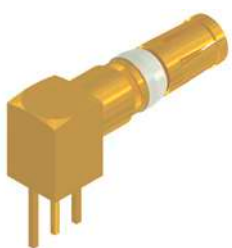
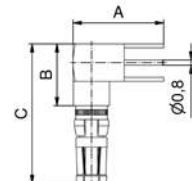
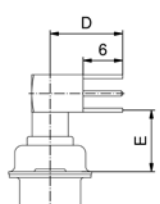
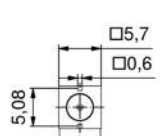
| Socket contact   |    | Impedance [ $\Omega$ ] | Shell size | Code use with part no. creator | Quality class | UL-File | Part No. |
|--|----|------------------------|------------|--------------------------------|---------------|---------|----------|
| <br><br><br> | 50 | 76                     | J          | E228329                        | 132J24019X    |         |          |
|  | 15 | G7                     | A          |                                | 132A24019X    |         |          |
|  | 75 | 86                     | J          |                                | 132J34019X    |         |          |
|  | G8 | A                      | 132A34019X |                                |               |         |          |

Plug contact

|   |    |    |            |         |            |
|---|----|----|------------|---------|------------|
| <br><br><br> | 50 | 76 | J          | E228329 | 131J24019X |
|   | 15 | G7 | A          |         | 131A24019X |
|   | 75 | 86 | J          |         | 131J34019X |
|   | G8 | A  | 131A34019X |         |            |

Coaxial contacts, angled  
PCB termination, 3 solder pins

Socket contact

|  |    |    |            |            |         |            |
|--|----|----|------------|------------|---------|------------|
| <br><br><br> | 50 | 14 | 78         | J          | E228329 | 132J25019X |
|  |    |    | G9         | A          |         | 132A25019X |
|  | 5  | 79 | J          | 132J25029X |         |            |
|  |    |    | H1         | A          |         | 132A25029X |
|  | 75 | 14 | 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 [ $\Omega$ ] |     | 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 [ $\Omega$ ] |     | 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 [ $\Omega$ ] |     | 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 |