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CONNECTORS

AGRICULTURAL & CONSTRUCTION MACHINES



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CONEC®

TECHNOLOGY IN CONNECTORS™

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

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

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

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

CONEC Germany, Lippstadt



CONEC Canada, Brampton




CONEC USA, Garner



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

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

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



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SECTION 1
ISOBUS CONNECTORS _____





ISOBUS CONNECTORS

Nomenclature

EJ - - 9 - S - L1 - W / 600P / 2m

Type / Housing
 EJ = for socket contacts
 HD34 = for plug contacts
 JPT = for socket contacts
 HDC36 = Protection cap

Size
 = at EJ and JPT
 24 = HD + HDC

Number of poles
 9 = EJ
 91 = HD
 16 = JPT

Type
 S = Socket
 P = Plug

Version (only EJ-series)
 = without landing plate
 L1 = with landing plate round
 L2 = with landing plate with flats

Corrugated tube (only EJ- and HD-series)
 = without corrugated tube
 W = with corrugated tube

Cable
 600P = Hybride ((4Li9Y 0,50) + 2LiY2,50 + 2LiY6,00), TPU, black
 1000P = Hybride ((4Li9Y 0,50) + 2LiY2,50 + 2LiY6,00), TPU, black
 1600P = Hybride ((4Li9Y 0,50) + 2LiY2,50 + 2LiY16,00), TPU, black

Cable length
 2 m = 2 meter
 5 m = 5 meter
 10 m = 10 meter

Connecting-cables
 6 m = 6 meter
 9 m = 9 meter
 12 m = 12 meter

ISOBUS CONNECTORS

Product specification

| | |
|------------------------------|---|
| Basic material | |
| Contact | Copper alloy |
| Contact plating | EJ and HD: Ni / JPT: Sn |
| Contact carrier | EJ: PA6.6 / HD: Aluminium/Thermoplast / JPT: PBT ASA GF30 |
| Overmould | TPU, UL94 V-0, black |
| Landing plate (EJ) | PA6.6 UL94 V-0, black |
| Protective cover | EJ: PA6.6 UL94 V-0, black / HDC: Aluminium |
| Corrugated tube | PA6 UL94 HB, black |
| Sealing | Silicone |
| Technical Data | |
| Rated voltage | EJ and JPT: max. 12 V DC / HD: max. 32 V DC |
| Current rating | max.: 600P altern. 1000P altern. 1600P: 25 A at 40 °C [6 mm ²] altern. 35 A at 40 °C [10 mm ²] altern. 60 A at 40 °C [16 mm ²] 15 A at 40 °C [2,5 mm ²] 5 A at 40 °C [0,5 mm ²] |
| Degree of protection | IP67 / IP69K in mated condition |
| Temperature range connectors | EJ / HD: -40 °C to +85 °C / JPT: -40 °C to +80 °C |
| Temperature range cable | Fixed installation: -40 °C to +85 °C Flexible installation: -20 °C to +85 °C |
| Terminal cross section | 600P altern. 1000 altern. 1600P: 2 x 6 mm ² altern. 2 x 10 mm ² altern. 2 x 16 mm ² 2 x 2,5 mm ² + 4 x 0,5 mm ² |
| Housing | EJ / HD34 / JPT |

ISOBUS CONNECTORS OVERMOULDED
Open end cable

Female connector EJ

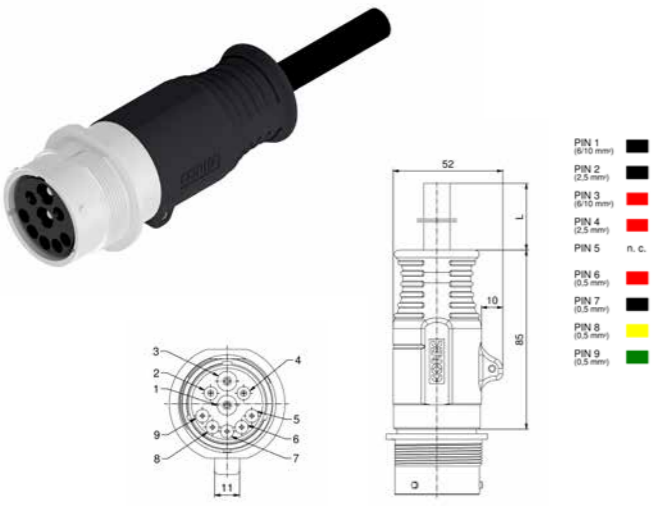
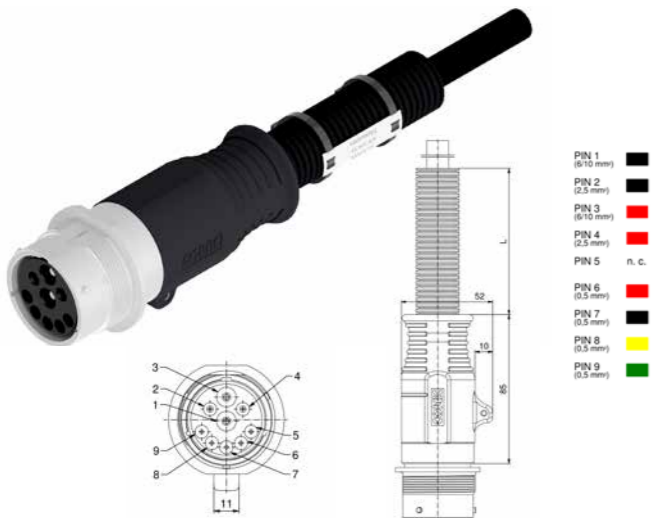
Power: 2 x 6 mm² [25 A / 600P] altern.
2 x 10 mm² [35 A / 1000P] altern.
2 x 16 mm² [60 A / 1600P] +
ECU Power: 2 x 2.5 mm² [15 A] +
CAN Bus: 4 x 0.5 mm² [5 A]

| PUR hybrid cable | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Wire cross section [mm ²] | Landing plate | Description | Part No. |
|------------------|--------------------|--------------|-------------------|--------------------|-----------------------|---------------------------------------|------------------------|---------------------|----------|
| | max. 12 V DC | 9 | 600P | 2 | 2x6 2x2.5 4x0.5 | ✓ | EJ-9-S-L1/600P/2m | 55-10058 | |
| | | | | 5 | | | EJ-9-S-L1/600P/5m | 55-10059 | |
| | | | | 10 | | | EJ-9-S-L1/600P/10m | 55-10060 | |
| | | | | 1000P | 2 | | 2x10 2x2.5 4x0.5 | EJ-9-S-L1/1000P/2m | 55-10064 |
| | | | | | 5 | | | EJ-9-S-L1/1000P/5m | 55-10065 |
| | | | | | 10 | | | EJ-9-S-L1/1000P/10m | 55-10066 |
| | | | | 1600P | 2 | | 2x16 2x2.5 4x0.5 | EJ-9-S-L1/1600P/2m | 55-10070 |
| | | | | | 5 | | | EJ-9-S-L1/1600P/5m | 55-10071 |
| | | | | | 10 | | | EJ-9-S-L1/1600P/10m | 55-10072 |
| | max. 12 V DC | 9 | 600P | 2 | 2x6 2x2.5 4x0.5 | EJ-9-S/600P/2m | 55-10061 | | |
| | | | | 5 | | EJ-9-S/600P/5m | 55-10062 | | |
| | | | | 10 | | EJ-9-S/600P/10m | 55-10063 | | |
| | | | | 1000P | 2 | 2x10 2x2.5 4x0.5 | EJ-9-S/1000P/2m | 55-10067 | |
| | | | | | 5 | | EJ-9-S/1000P/5m | 55-10068 | |
| | | | | | 10 | | EJ-9-S/1000P/10m | 55-10069 | |
| | | | | 1600P | 2 | 2x16 2x2.5 4x0.5 | EJ-9-S/1600P/2m | 55-10073 | |
| | | | | | 5 | | EJ-9-S/1600P/5m | 55-10074 | |
| | | | | | 10 | | EJ-9-S/1600P/10m | 55-10075 | |
| | max. 12 V DC | 9 | 600P | 2 | 2x6 2x2.5 4x0.5 | EJ-9-S-L1-W/600P/2m | 55-10100 | | |
| | | | | 5 | | EJ-9-S-L1-W/600P/5m | 55-10101 | | |
| | | | | 10 | | EJ-9-S-L1-W/600P/10m | 55-10102 | | |
| | | | | 1000P | 2 | 2x10 2x2.5 4x0.5 | EJ-9-S-L1-W/1000P/2m | 55-10113 | |
| | | | | | 5 | | EJ-9-S-L1-W/1000P/5m | 55-10114 | |
| | | | | | 10 | | EJ-9-S-L1-W/1000P/10m | 55-10115 | |

ISOBUS CONNECTORS OVERMOULDED
Open end cable

Male connector HD

Power: 2 x 6 mm² [25 A / 600P] altern.
2 x 10 mm² [35 A / 1000P] altern.
2 x 16 mm² [60 A / 1600P] +
ECU Power: 2 x 2.5 mm² [15 A] +
CAN Bus: 4 x 0.5 mm² [5 A]

| PUR hybrid cable | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Wire cross section [mm ²] | Landing plate | Description | Part No. | | | | | |
|---|-----------------------------|------------------------------|------------------------------|--|----------------------|---------------------------------------|---------------|----------------------------|----------|---|-----------------------------|--|----------------------------|----------|
|  | | 9 | max. 32 V DC | 600P | 2 | 2 x 6 2 x 2.5 4 x 0.5 | | HD34-24-91-P/ 600P/2m | 55-10118 | | | | | |
| | | | | | 5 | | | HD34-24-91-P/ 600P/5m | 55-10119 | | | | | |
| | | | | | 10 | | | HD34-24-91-P/ 600P/10m | 55-10120 | | | | | |
| | | | | 1000P | 2 | 2 x 10 2 x 2.5 4 x 0.5 | | HD34-24-91-P/ 1000P/2m | 55-10121 | | | | | |
| | | | | | 5 | | | HD34-24-91-P/ 1000P/5m | 55-10122 | | | | | |
| | | | | | 10 | | | HD34-24-91-P/ 1000P/10m | 55-10123 | | | | | |
| | | | | PUR hybrid cable with corrugated tube | | | | | | | | | | |
| | | | |  | | 9 | | max. 32 V DC | 600P | 2 | 2 x 6 2 x 2.5 4 x 0.5 | | HD34-24-91-P-W/ 600P/2m | 55-10124 |
| | | | | | | | | | | 5 | | | HD34-24-91-P-W/ 600P/5m | 55-10125 |
| 10 | HD34-24-91-P-W/ 600P/10m | 55-10126 | | | | | | | | | | | | |
| 1000P | 2 | 2 x 10 2 x 2.5 4 x 0.5 | HD34-24-91-P-W/ 1000P/2m | | | | 55-10127 | | | | | | | |
| | 5 | | HD34-24-91-P-W/ 1000P/5m | | | | 55-10128 | | | | | | | |
| | 10 | | HD34-24-91-P-W/ 1000P/10m | | | | 55-10129 | | | | | | | |

ISOBUS CONNECTORS OVERMOULDED
Connecting cable

Female connector EJ
Male connector HD

| PUR hybrid cable | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Wire cross section [mm ²] | Landing plate | Description | Part No. |
|------------------|--------------------|--------------|-------------------|--------------------|----------------------|---------------------------------------|---------------|--------------------------------------|----------|
| | | 9 | max. 12 V DC | 600P | 6 | 2x6 2x2.5 4x0.5 | ✓* | EJ-9-S-L1-HD34-24-91-P/ 600P/6m | 55-10130 |
| | | | | | 9 | | ✓* | EJ-9-S-L1-HD34-24-91-P/ 600P/9m | 55-10131 |
| | | | | | 12 | | ✓* | EJ-9-S-L1-HD34-24-91-P/ 600P/12m | 55-10132 |
| | | | | 1000P | 6 | 2x10 2x2.5 4x0.5 | ✓* | EJ-9-S-L1-HD34-24-91-P/ 1000P/6m | 55-10133 |
| | | | | | 9 | | ✓* | EJ-9-S-L1-HD34-24-91-P/ 1000P/9m | 55-10134 |
| | | | | | 12 | | ✓* | EJ-9-S-L1-HD34-24-91-P/ 1000P/12m | 55-10135 |

Power: 2 x 6 mm² [25 A / 600P] altern.
2 x 10 mm² [35 A / 1000P] altern.
2 x 16 mm² [60 A / 1600P] +
ECU Power: 2 x 2.5 mm² [15 A] +
CAN Bus: 4 x 0.5 mm² [5 A]
* Landeplatte nur Buchsenstecker

| PUR hybrid cable with corrugated tube | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Wire cross section [mm ²] | Landing plate | Description | Part No. |
|---------------------------------------|--------------------|--------------|-------------------|--------------------|----------------------|---------------------------------------|---------------|--|----------|
| | | 9 | max. 12 V DC | 600P | 6 | 2x10 2x2.5 4x0.5 | ✓* | EJ-9-S-L1-HD34-24-91-P-W/ 600P/6m | 55-10136 |
| | | | | | 9 | | ✓* | EJ-9-S-L1-HD34-24-91-P-W/ 600P/9m | 55-10137 |
| | | | | | 12 | | ✓* | EJ-9-S-L1-HD34-24-91-P-W/ 600P/12m | 55-10138 |
| | | | | 1000P | 6 | 2x10 2x2.5 4x0.5 | ✓* | EJ-9-S-L1-HD34-24-91-P-W/ 1000P/6m | 55-10139 |
| | | | | | 9 | | ✓* | EJ-9-S-L1-HD34-24-91-P-W/ 1000P/9m | 55-10140 |
| | | | | | 12 | | ✓* | EJ-9-S-L1-HD34-24-91-P-W/ 1000P/12m | 55-10141 |

Female connector EJ
Female connector JPT

| PUR hybrid cable | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Wire cross section [mm ²] | Landing plate | Description | Part No. |
|------------------|--------------------|--------------|-------------------|--------------------|----------------------|---------------------------------------|---------------|------------------------------|----------|
| | | 9 / 16 | max. 12 V DC | 1000P | 6 | 2x10 2x2.5 4x0.5 | ✓* | EJ-9-S-L1-JPT-16-S/1000P/6m | 55-10076 |
| | | | | | 9 | | ✓* | EJ-9-S-L1-JPT-16-S/1000P/9m | 55-10077 |
| | | | | | 12 | | ✓* | EJ-9-S-L1-JPT-16-S/1000P/12m | 55-10078 |

ISOBUS CONNECTORS OVERMOULDED
Accessories

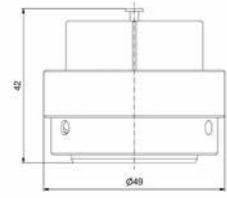
Dust cap HDC, Aluminium
IP20

for Male connector HD

Contact assignment

Description

Part No.



HDC36-24

55-10142

SECTION 2
VALVE CONNECTORS DT-SERIES _____





VALVE CONNECTORS DT-SERIES

Nomenclature

Y DT06 - 2 S L - A - 03 / K1 / 0.75 / 2m - K1...

Form

Y= Y-Splitter

Type / Housing

DT06 = for socket contacts
DT04 = for plug contacts

No. of pos

2 = 2-pos.
3 = 3-pos.
4 = 4-pos.
6 = 6-pos.
8A = 8-pos. A-coding
12A = 12-pos. A-coding
other codings upon request

Type

S = Socket contacts/Plug housing
P = Plug contacts/Receptacle housing

Cable style

= cable
L = Single wire (only 2-pos. version)

Termination protection hose

= Standard
G = Thread M12x1

Protection circuit

A = without protection circuit
B = with protection circuit Suppressor diode max. 12 V AC/24 V DC
E = with protection circuit Varistor max. 24 V AC/30 V DC
F = with protection circuit Freewheeling diode max. 32 V DC
G = with protection circuit Suppressor diode max. 22 V AC/32 V DC

Colour Overmoulding

= Black (without LED-protection circuit); translucent (withLED-protection circuit)
03 = Blue
04 = Green
05 = Yellow
06 = Red
07 = White

Material cable

K1 = TPU, black, highflexible, halogenfree, UL
A1 = PVC single wire
AS = Termination cap (without contacts)
other types upon request *with circuit upon request

Wire cross section

0.75 = 0,75 mm²

Cable length

2 m = 2 meter
5 m = 5 meter
10 m = 10 meter

Description outlet 2 [Y-Splitter/ Double outlet]


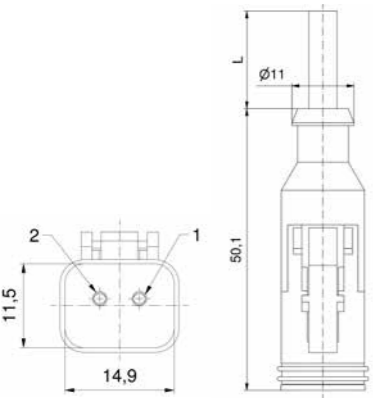
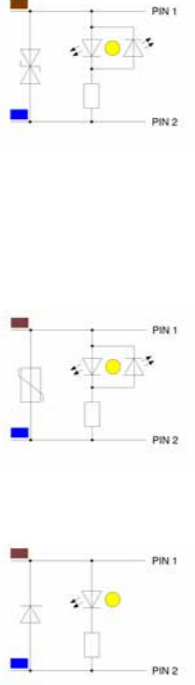
VALVE CONNECTORS DT-SERIES

Product specification

| Basic material | |
|-------------------------------|---|
| Contact | Copper alloy |
| Contact plating | Ni |
| Contact carrier | Thermoplast |
| Overmould | TPU, UL94 |
| Sealing | Silicone |
| Technical Data | |
| Rated voltage | with LED and protection circuit [B]: max. 12 V AC/ 24 V DC with LED and protection circuit [E]: max. 24 V AC/30 V DC with LED and protection circuit [F]: max. 32 V DC with LED and protection circuit [G]: max. 22 V AC/32 V DC without protection circuit: 10 - 230 AC/DC |
| Current rating | max. 8 A at 40 °C [2-, 3-pos.] 7 A at 40 °C [4-pos.] 6 A at 40 °C [6-, 8-pos.] 5 A at 40 °C [12-pos.] |
| Degree of protection | IP67 / IP69K in mated condition |
| Temperature range connectors | -40 °C to +80 °C |
| Temperature range cable | Fixed installation: -40 °C to +80 °C Flexible installation: -25 °C to +80 °C |
| Temperature range single wire | Fixed installation -40 °C to +105 °C Flexible installation: -10 °C to +105 °C |
| Terminal cross section | 0,75 mm ² /AWG 18 |
| Housing | Deutsch DT06/DT04 |
| Protection circuit | Suppressor diode + 2 x LED yellow Varistor + 2 x LED yellow Freewheeling diode + LED yellow |


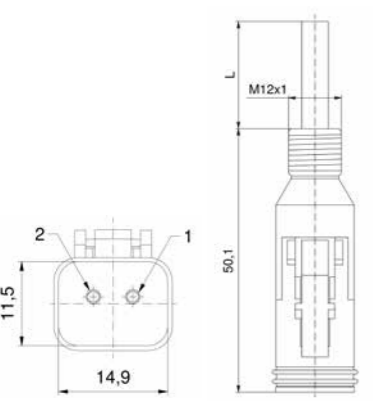
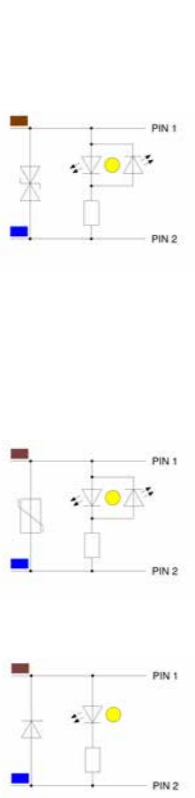
Valve connectors
DT-Series

DT06, 2-pos.
Socket contacts

| LED-protection circuit | Contact assignment | No. of poles | Type of protection circuit | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. | | | |
|--|--|--------------|----------------------------|-----------------------|-----------------------|----------------------|---------------|---------------------------------------|-----------------------|-----------------------|----------|-----------------------|----------|
|   |  | 2 | B | 12 V AC / 24 V DC | 8 | 2 | PUR | 2 x 0.75 | DT06-2S-B/K1/0.75/2m | 55-00376 | | | |
| | | | | | | 5 | | | DT06-2S-B/K1/0.75/5m | 55-00377 | | | |
| | | | | | | 10 | | | DT06-2S-B/K1/0.75/10m | 55-00378 | | | |
| | | | | G | 8 - 22 V AC / 32 V DC | 4 | | | 2 | DT06-2S-G/K1/0.75/2m | 55-00760 | | |
| | | | | | | | | | 5 | DT06-2S-G/K1/0.75/5m | 55-00761 | | |
| | | | | | | | | | 10 | DT06-2S-G/K1/0.75/10m | 55-00762 | | |
| | | | E | 8 - 24 V AC / 30 V DC | 4 | 2 | | | DT06-2S-E/K1/0.75/2m | 55-00687 | | | |
| | | | | | | 5 | | | DT06-2S-E/K1/0.75/5m | 55-00688 | | | |
| | | | | | | 10 | | | DT06-2S-E/K1/0.75/10m | 55-00689 | | | |
| | | | | | | F | | | 10 - 32 V DC | 4 | 2 | DT06-2S-F/K1/0.75/2m | 55-00690 |
| | | | | | | | | | | | 5 | DT06-2S-F/K1/0.75/5m | 55-00691 |
| | | | | | | | | | | | 10 | DT06-2S-F/K1/0.75/10m | 55-00692 |

Types of protection circuit DT06 (2-, 3-pos.):
 • B/G= Suppressor diode + 2x LED yellow
 • E= Varistor + 2x LED yellow
 • F= Freewheeling diode + LED yellow
 Technical information page 82-83

LED-protection circuit, M12 thread

| | | | | | | | | | | | | | |
|---|---|---|---|-----------------------|---|----|-----|----------|------------------------|----------|----|------------------------|----------|
|   |  | 2 | B | 12 V AC / 24 V DC | 8 | 2 | PUR | 2 x 0.75 | DT06-2SG-B/K1/0.75/2m | 55-00379 | | | |
| | | | | | | 5 | | | DT06-2SG-B/K1/0.75/5m | 55-00380 | | | |
| | | | | | | 10 | | | DT06-2SG-B/K1/0.75/10m | 55-00381 | | | |
| | | | | | | G | | | 8 - 22 V AC / 32 V DC | 4 | 2 | DT06-2SG-G/K1/0.75/2m | 55-00763 |
| | | | | | | | | | | | 5 | DT06-2SG-G/K1/0.75/5m | 55-00764 |
| | | | | | | | | | | | 10 | DT06-2SG-G/K1/0.75/10m | 55-00765 |
| | | | E | 8 - 24 V AC / 30 V DC | 4 | 2 | | | DT06-2SG-E/K1/0.75/2m | 55-00700 | | | |
| | | | | | | 5 | | | DT06-2SG-E/K1/0.75/5m | 55-00701 | | | |
| | | | | | | 10 | | | DT06-2SG-E/K1/0.75/10m | 55-00702 | | | |
| | | | | | | F | | | 10 - 32 V DC | 4 | 2 | DT06-2SG-F/K1/0.75/2m | 55-00703 |
| | | | | | | | | | | | 5 | DT06-2SG-F/K1/0.75/5m | 55-00704 |
| | | | | | | | | | | | 10 | DT06-2SG-F/K1/0.75/10m | 55-00705 |

Valve connectors
DT-Series

DT06, 2-pos.
Socket contacts

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. | |
|---|--------------------|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|-----------------------|------------------------|----------|
| | | 2 | 10 - 230 V AC/DC | 2 | 2 | PUR | 2 x 0.75 | DT06-2S-A/K1/0.75/2m | 55-00388 | |
| | | | | 8 | | | | 5 | DT06-2S-A/K1/0.75/5m | 55-00389 |
| | | | | 10 | | | | | DT06-2S-A/K1/0.75/10m | 55-00390 |
| Without LED-protection circuit, M12 thread | | | | | | | | | | |
| | | 2 | 10 - 230 V AC/DC | 2 | 2 | PUR | 2 x 0.75 | DT06-2SG-A/K1/0.75/2m | 55-00391 | |
| | | | | 8 | | | | 5 | DT06-2SG-A/K1/0.75/5m | 55-00392 |
| | | | | 10 | | | | | DT06-2SG-A/K1/0.75/10m | 55-00393 |

Valve connectors
DT-Series

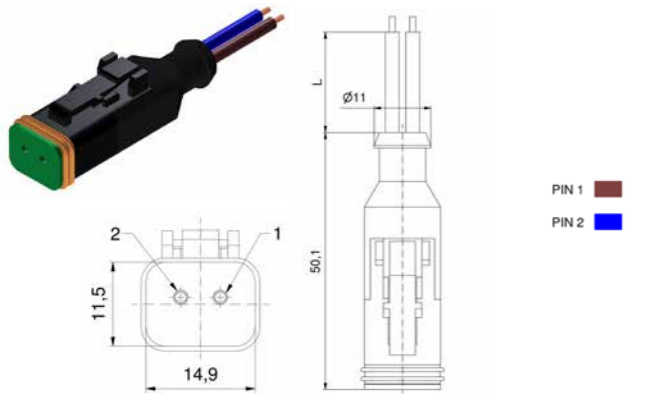
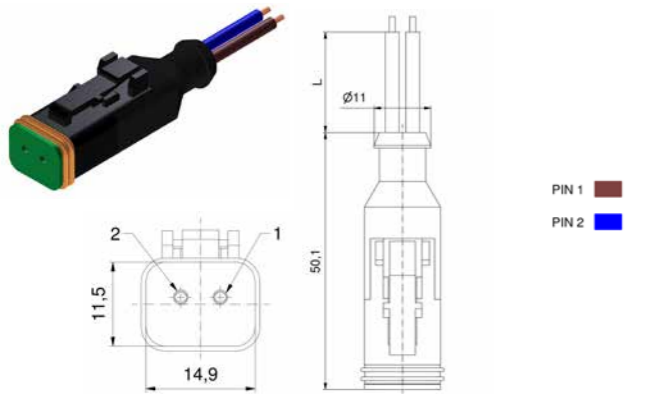
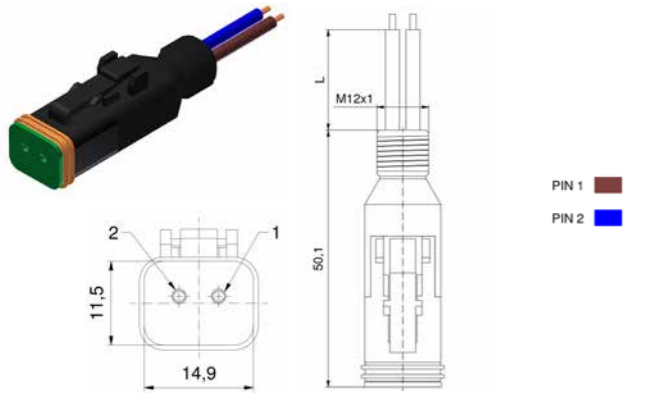
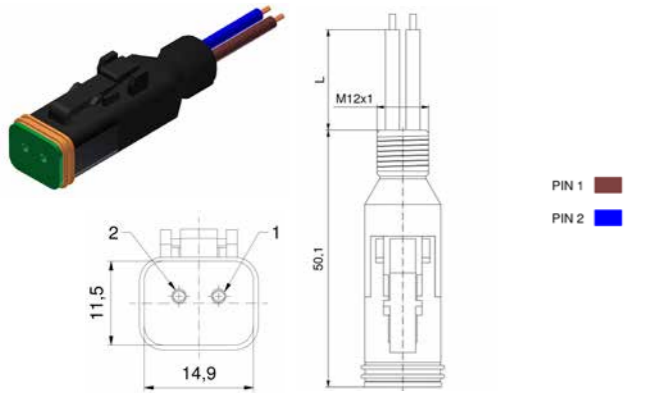
DT06, 2-pos.
Socket contacts, single wire

| LED-protection circuit | Contact assignment | No. of poles | Type of protection circuit | Rated voltage [A] | Current rating [A] | Wire length = L [m] | Wirequality | Wire cross section [mm ²] | Description | Part No. |
|---|--------------------|--------------|----------------------------|-------------------|--------------------|---------------------|-------------|---------------------------------------|--------------------------|----------|
| | | 2 | B | 12 V AC / 24 V DC | 8 | 0.5 | PVC | 2 x 0.75 | DT06-2SL-B/A1/0.75/0,5m | 55-00560 |
| | | | | | | 2 | | | DT06-2SL-B/A1/0.75/2m | 55-00482 |
| | | | | | | 5 | | | DT06-2SL-B/A1/0.75/5m | 55-00561 |
| LED-protection circuit, M12 thread | | | | | | | | | | |
| | | 2 | B | 12 V AC / 24 V DC | 8 | 0.5 | PVC | 2 x 0.75 | DT06-2SLG-B/A1/0.75/0,5m | 55-00562 |
| | | | | | | 2 | | | DT06-2SLG-B/A1/0.75/2m | 55-00483 |
| | | | | | | 5 | | | DT06-2SLG-B/A1/0.75/5m | 55-00563 |

Type of protection circuit DT06 2-pos. single wire:
 • B= Suppressor diode + 2x LED yellow
 Additional types of protection circuit upon request
 Technical information page 82-83

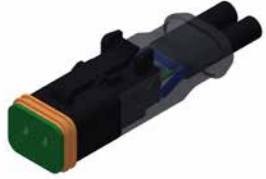
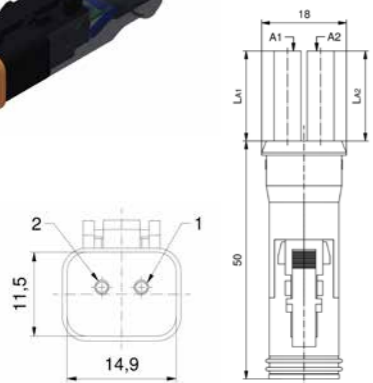
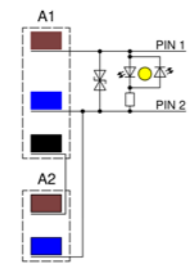
Valve connectors
DT-Series

DT06, 2-pos.
Socket contacts, single wire

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Wire length = L [m] | Wirequality | Wire cross section [mm ²] | Description | Part No. |
|--|--|--------------|-------------------|--------------------|---------------------|-------------|---------------------------------------|--------------------------|----------|
|  |  | 2 | 10 - 230 V AC/DC | 8 | 0.5 | PVC | 2 x 0.75 | DT06-2SL-A/A1/0.75/0,5m | 55-00564 |
| | | | | 8 | 2 | | | DT06-2SL-A/A1/0.75/2m | 55-00565 |
| | | | | 8 | 5 | | | DT06-2SL-A/A1/0.75/5m | 55-00566 |
| Without LED-protection circuit, M12 thread | | | | | | | | | |
|  |  | 2 | 10 - 230 V AC/DC | 8 | 0.5 | PVC | 2 x 0.75 | DT06-2SLG-A/A1/0.75/0,5m | 55-00567 |
| | | | | 8 | 2 | | | DT06-2SLG-A/A1/0.75/2m | 55-00568 |
| | | | | 8 | 5 | | | DT06-2SLG-A/A1/0.75/5m | 55-00569 |

Valve connectors
DT-Series

DT06, 2-pos.
Socket contacts, double outlet

| Without LED-protection circuit | Contact assignment | No. of poles | Type of protection circuit | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---|--------------------|--------------|----------------------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|--------------------------------------|----------|
|    | | 2 | B | 12 V AC / 24 V DC | 8 | 10 | PUR | 2 x 2 x 0.75 | YDT06-2S-B/K1/0.75/ 1m-K1/0.75/1m | 55-01406 |

Type of protection circuit DT06 2-pos. Double outlet:
 • B= Suppressor diode + 2x LED yellow
 Additional types of protection circuit upon request
 Technical information page 82-83

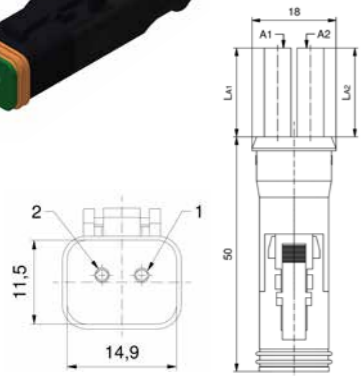
Valve connectors
DT-Series

DT06, 2-pos.
Socket contacts, double outlet


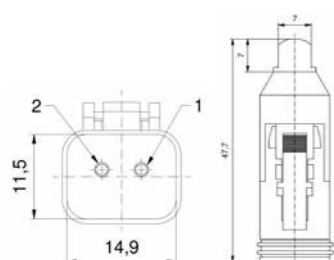
Without LED-protection circuit

Contact assignment

| No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. |
|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|--------------------------------------|----------|
| 2 | 10 - 230 V AC/DC | 8 | 1 | PUR | 2 x 2 x 0.75 | YDT06-2S-A/K1/0.75/ 1m-K1/0.75/1m | 55-01153 |



DT06, 2-pos.
Termination cap

| | | | | | | | |
|--|---|--|--|--|--|--------------|----------|
|   | 2 | | | | | DT06-2S-A/AS | 55-01296 |
|--|---|--|--|--|--|--------------|----------|

Valve connectors
DT-Series

DT04, 2-pos.
Plug contacts

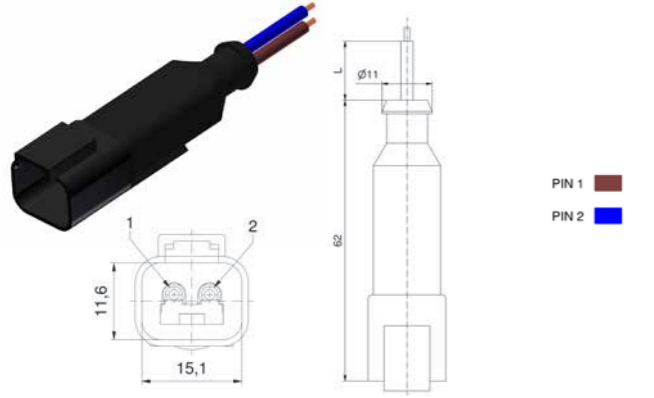
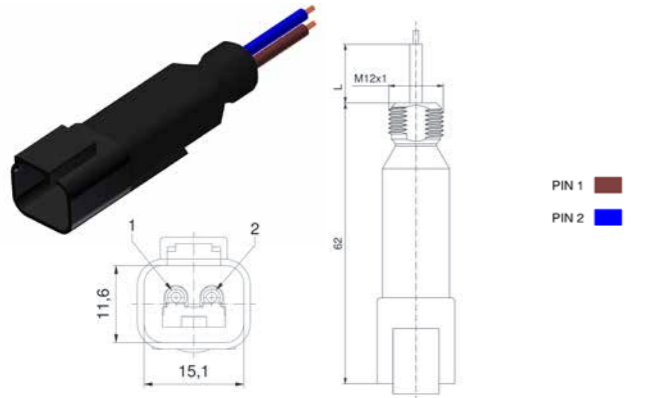
Protection circuits DT04 (2-, 3-pos.) upon request
Technical information page 82-83

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. | |
|---|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|-----------------------|------------------------|----------|
| | | 2 | 10 - 230 V AC/DC | 2 | 2 | PUR | 2 x 0.75 | DT04-2PA-K1/0.75/2m | 55-00448 | |
| | | | | 8 | | | | 5 | DT04-2PA-K1/0.75/5m | 55-00449 |
| | | | | 10 | | | | | DT04-2PA-K1/0.75/10m | 55-00450 |
| Without LED-protection circuit, M12 thread | | | | | | | | | | |
| | | 2 | 10 - 230 V AC/DC | 2 | 2 | PUR | 2 x 0.75 | DT04-2PG-A/K1/0.75/2m | 55-00451 | |
| | | | | 8 | | | | 5 | DT04-2PG-A/K1/0.75/5m | 55-00452 |
| | | | | 10 | | | | | DT04-2PG-A/K1/0.75/10m | 55-00453 |

Valve connectors
DT-Series

DT04, 2-pos.
Plug contacts, single wire

Protection circuits DT04 (2-, 3-pos.) upon request
Technical information page 82-83

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Wire length = L [m] | Wire quality | Wire cross section [mm ²] | Description | Part No. | |
|--|--------------------|--------------|-------------------|--------------------|---------------------|--------------|---------------------------------------|--------------------------|------------------------|----------|
|  | | 2 | 10 - 230 V AC/DC | 0.5 | 0.5 | PVC | 2 x 0.75 | DT04-2PL-A/A1/0.75/0,5m | 55-00576 | |
| | | | | 8 | | | | 2 | DT04-2PL-A/A1/0.75/2m | 55-00577 |
| | | | | | | | | 5 | DT04-2PL-A/A1/0.75/5m | 55-00578 |
| Without LED-protection circuit, M12 thread | | | | | | | | | | |
|  | | 2 | 10 - 230 V AC/DC | 0.5 | 0.5 | PVC | 2 x 0.75 | DT04-2PLG-A/A1/0.75/0,5m | 55-00579 | |
| | | | | 8 | | | | 2 | DT04-2PLG-A/A1/0.75/2m | 55-00580 |
| | | | | | | | | 5 | DT04-2PLG-A/A1/0.75/5m | 55-00581 |

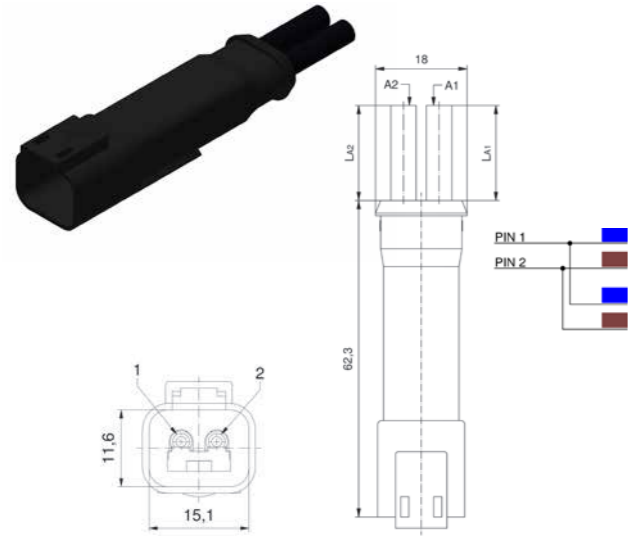
Valve connectors
DT-Series

DT04, 2-pos.
Plug contacts, double outlet

Without LED-protection circuit

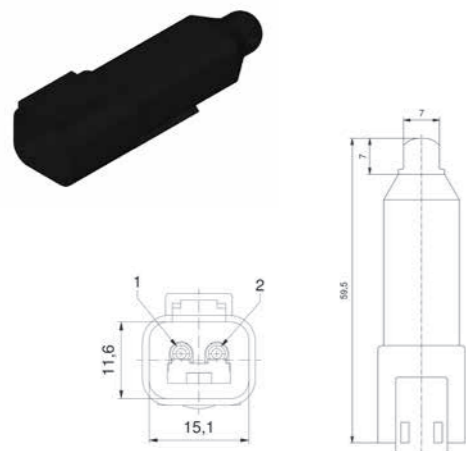
Contact assignment

| No. of poles | Rated voltage [A] | Current rating [A] | Wire length = L [m] | Wirequality | Wire cross section [mm²] | Description | Part No. |
|--------------|-------------------|--------------------|---------------------|-------------|--------------------------|-------------------------------------|----------|
| 2 | 10 - 230 V AC/DC | 8 | 1 | PUR | 2 x 2 x 0.75 | YDT04-2PA/K1/0.75/ 1m-K1/0.75/1m | 55-01319 |




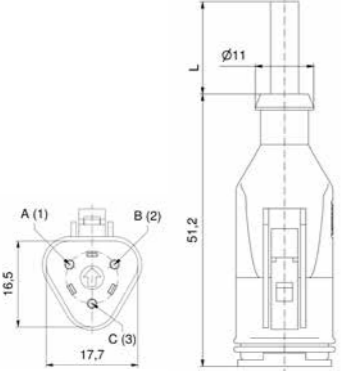
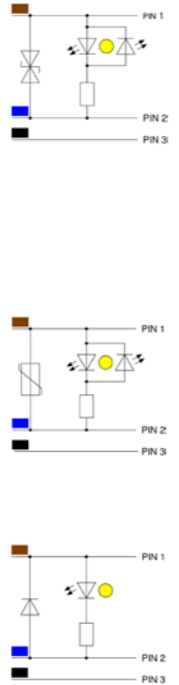
DT04, 2-pos.
Termination cap


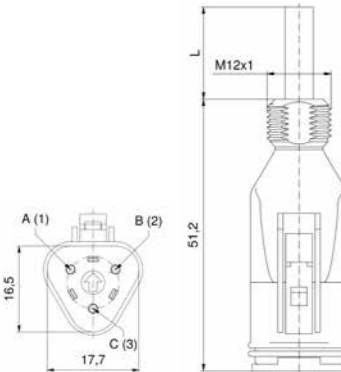
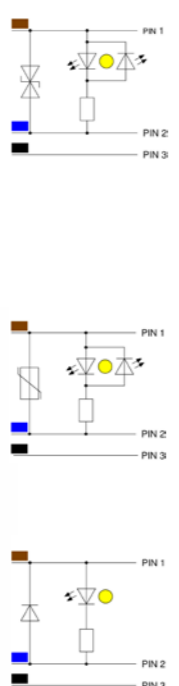
| | | | | | | | |
|---|--|--|--|--|--|--------------|----------|
| 2 | | | | | | DT04-2P-A/AS | 55-01297 |
|---|--|--|--|--|--|--------------|----------|



Valve connectors
DT-Series

DT06, 3-pos.
Socket contacts

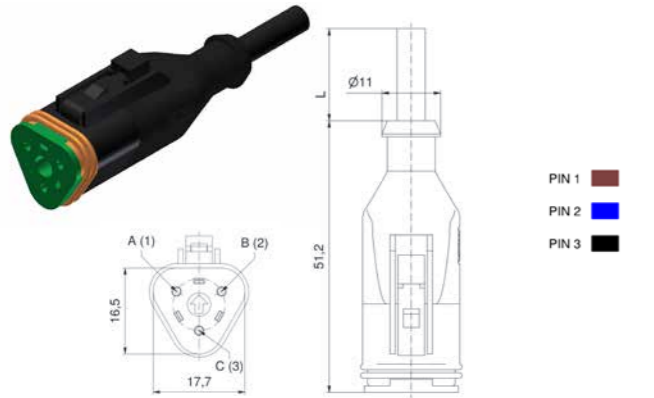
| LED-protection circuit | Contact assignment | No. of poles | Type of protection circuit | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. | |
|--|--|--------------|----------------------------|-------------------|-----------------------|----------------------|---------------|---------------------------------------|-----------------------|-----------------------|----------|
|   |  | 3 | B | 12 V AC / 24 V DC | 8 | 2 | PUR | 3 x 0.75 | DT06-3S-B/K1/0.75/2m | 55-00850 | |
| | | | | | | 5 | | | DT06-3S-B/K1/0.75/5m | 55-00851 | |
| | | | | | | 10 | | | DT06-3S-B/K1/0.75/10m | 55-00852 | |
| | | | | G | 8 - 22 V AC / 32 V DC | 4 | | | 2 | DT06-3S-G/K1/0.75/2m | 55-00772 |
| | | | | | | | | | 5 | DT06-3S-G/K1/0.75/5m | 55-00773 |
| | | | | | | | | | 10 | DT06-3S-G/K1/0.75/10m | 55-00774 |
| | | | E | | 8 - 24 V AC / 30 V DC | 4 | | | 2 | DT06-3S-E/K1/0.75/2m | 55-00720 |
| | | | | | | | | | 5 | DT06-3S-E/K1/0.75/5m | 55-00721 |
| | | | | | | | | | 10 | DT06-3S-E/K1/0.75/10m | 55-00722 |
| | | | | F | 10 - 32 V DC | 4 | | | 2 | DT06-3S-F/K1/0.75/2m | 55-00751 |
| | | | | | | | | | 5 | DT06-3S-F/K1/0.75/5m | 55-00752 |
| | | | | | | | | | 10 | DT06-3S-F/K1/0.75/10m | 55-00753 |

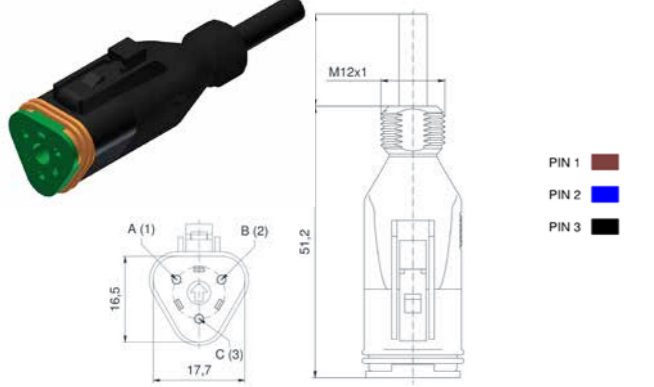
| LED-protection circuit, M12 thread | Contact assignment | No. of poles | Type of protection circuit | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. | |
|---|---|--------------|----------------------------|-------------------|-----------------------|----------------------|---------------|---------------------------------------|------------------------|------------------------|----------|
|   |  | 3 | B | 12 V AC / 24 V DC | 8 | 2 | PUR | 3 x 0.75 | DT06-3SG-B/K1/0.75/2m | 55-00853 | |
| | | | | | | 5 | | | DT06-3SG-B/K1/0.75/5m | 55-00854 | |
| | | | | | | 10 | | | DT06-3SG-B/K1/0.75/10m | 55-00855 | |
| | | | | G | 8 - 22 V AC / 32 V DC | 4 | | | 2 | DT06-3SG-G/K1/0.75/2m | 55-00775 |
| | | | | | | | | | 5 | DT06-3SG-G/K1/0.75/5m | 55-00776 |
| | | | | | | | | | 10 | DT06-3SG-G/K1/0.75/10m | 55-00777 |
| | | | E | | 8 - 24 V AC / 30 V DC | 4 | | | 2 | DT06-3SG-E/K1/0.75/2m | 55-00723 |
| | | | | | | | | | 5 | DT06-3SG-E/K1/0.75/5m | 55-00724 |
| | | | | | | | | | 10 | DT06-3SG-E/K1/0.75/10m | 55-00725 |
| | | | | F | 10 - 32 V DC | 4 | | | 2 | DT06-3SG-F/K1/0.75/2m | 55-00754 |
| | | | | | | | | | 5 | DT06-3SG-F/K1/0.75/5m | 55-00755 |
| | | | | | | | | | 10 | DT06-3SG-F/K1/0.75/10m | 55-00756 |

Types of protection circuit DT06 (2-, 3-pos.):
 • B/G= Suppressor diode + 2x LED yellow
 • E= Varistor + 2x LED yellow
 • F= Freewheeling diode + LED yellow
 Technical information page 82-83

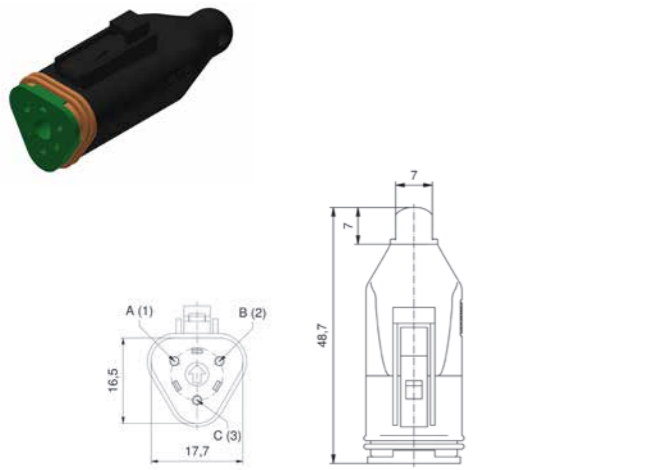
Valve connectors
DT-Series

DT06, 3-pos.
Socket contacts

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. | |
|---|--------------------|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|----------------------|-----------------------|----------|
|  | | 3 | 10 - 230 V AC/DC | 2 | 2 | PUR | 3 x 0.75 | DT06-3S-A/K1/0.75/2m | 55-00826 | |
| | | | | 8 | | | | 5 | DT06-3S-A/K1/0.75/5m | 55-00827 |
| | | | | 10 | | | | | DT06-3S-A/K1/0.75/10m | 55-00828 |

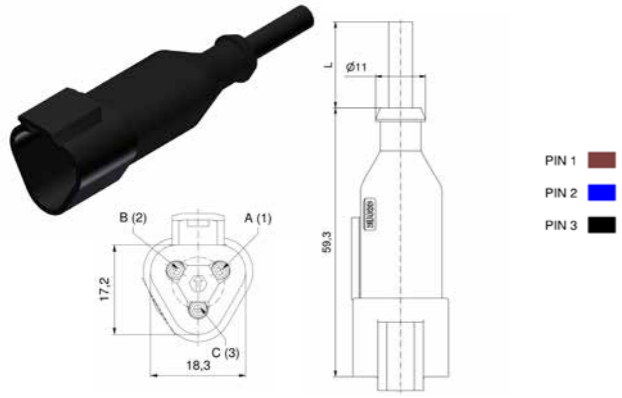
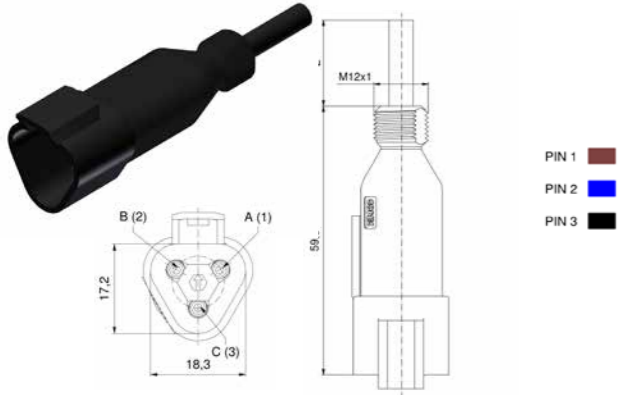
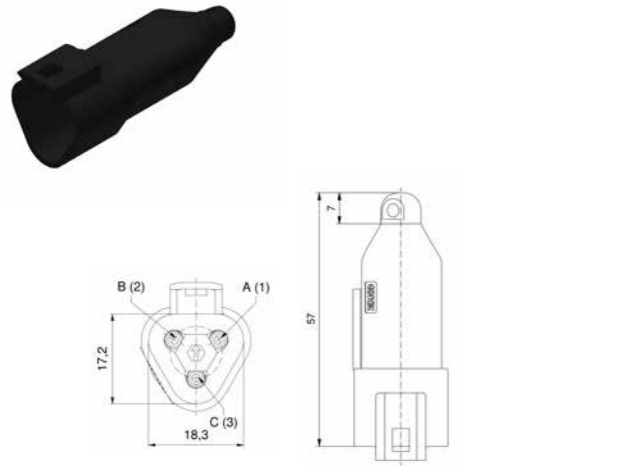
| Without LED-protection circuit, M12 thread | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. |
|--|--------------------|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|------------------------|----------|
|  | | 3 | 10 - 230 V AC/DC | 2 | PUR | 3 x 0.75 | DT06-3SG-A/K1/0.75/2m | 55-00829 | |
| | | | | 8 | | | 5 | DT06-3SG-A/K1/0.75/5m | 55-00830 |
| | | | | 10 | | | | DT06-3SG-A/K1/0.75/10m | 55-00831 |

DT06, 3-pos.
Termination cap

| | | | | | | | | | |
|---|--|---|--|--|--|--|--|--------------|----------|
|  | | 3 | | | | | | DT06-3S-A/AS | 55-01356 |
|---|--|---|--|--|--|--|--|--------------|----------|

Valve connectors
DT-Series

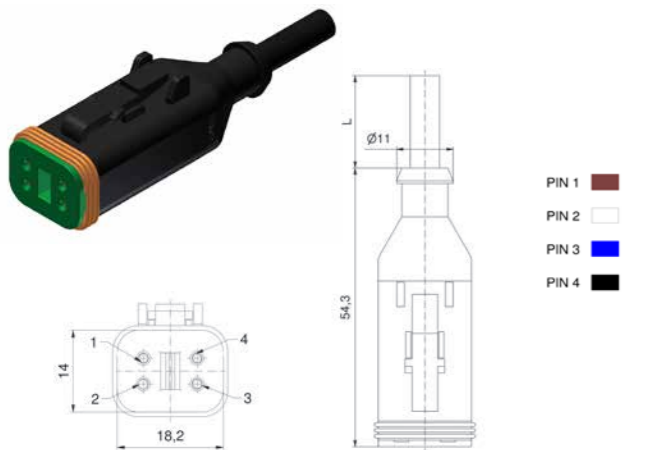
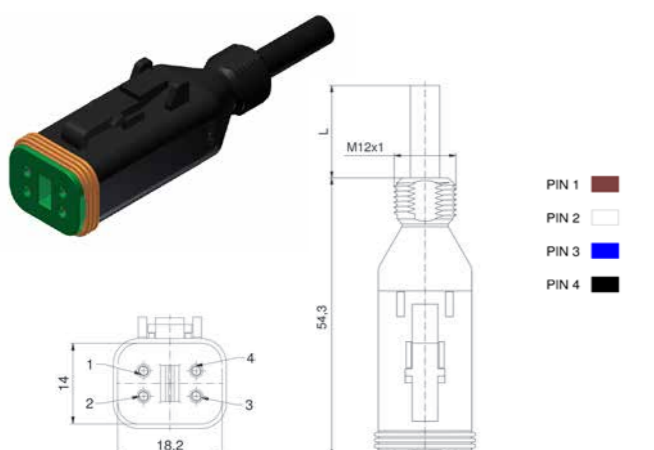
DT04, 3-pos.
Plug contacts

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. | |
|---|--------------------|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|-----------------------|------------------------|----------|
|  | | 3 | 10 - 230 V AC/DC | 2 | 0.75 | PUR | 3 x 0.75 | DT04-3P-A/K1/0.75/2m | 55-00832 | |
| | | | | 8 | | | | 5 | DT04-3P-A/K1/0.75/5m | 55-00833 |
| | | | | | | | | 10 | DT04-3P-A/K1/0.75/10m | 55-00834 |
| Without LED-protection circuit, M12 thread | | | | | | | | | | |
|  | | 3 | 10 - 230 V AC/DC | 2 | 0.75 | PUR | 3 x 0.75 | DT04-3PG-A/K1/0.75/2m | 55-00835 | |
| | | | | 8 | | | | 5 | DT04-3PG-A/K1/0.75/5m | 55-00836 |
| | | | | | | | | 10 | DT04-3PG-A/K1/0.75/10m | 55-00837 |
| DT04, 3-pos. Termination cap | | | | | | | | | | |
|  | | 3 | | | | | | DT04-3P-A/AS | 55-01357 | |

Protection circuits DT04 (2-, 3-pos.) upon request
Technical information page 82-83

Valve connectors
DT-Series

DT06, 4-pos.
Socket contacts

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|--|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|------------------------|----------|
|  | | 4 | 10 - 230 V AC/DC | 7 | 2 | PUR | 4 x 0.75 | DT06-4S-A/K1/0.75/2m | 55-00838 |
| | | | | 7 | 5 | | | DT06-4S-A/K1/0.75/5m | 55-00839 |
| | | | | 10 | | | | DT06-4S-A/K1/0.75/10m | 55-00840 |
| Without LED-protection circuit, M12 thread | | | | | | | | | |
|  | | 4 | 10 - 230 V AC/DC | 7 | 2 | PUR | 4 x 0.75 | DT06-4SG-A/K1/0.75/2m | 55-00841 |
| | | | | 7 | 5 | | | DT06-4SG-A/K1/0.75/5m | 55-00842 |
| | | | | 10 | | | | DT06-4SG-A/K1/0.75/10m | 55-00843 |

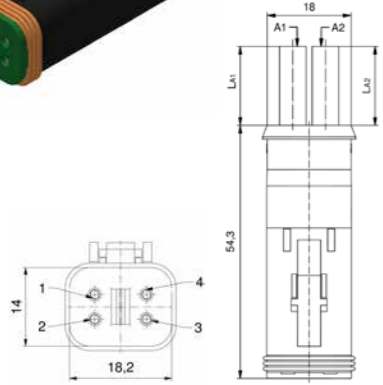
Valve connectors
DT-Series

DT06, 4-pos.
Socket contacts, double outlet

Without LED-protection circuit

Contact assignment

| No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. |
|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|--------------------------------------|----------|
| 4 | 10 - 230 V AC/DC | 7 | 1 | PUR | 2 x 4 x 0.75 | YDT06-4S-A/K1/0.75/ 1m-K1/0.75/1m | 55-01155 |

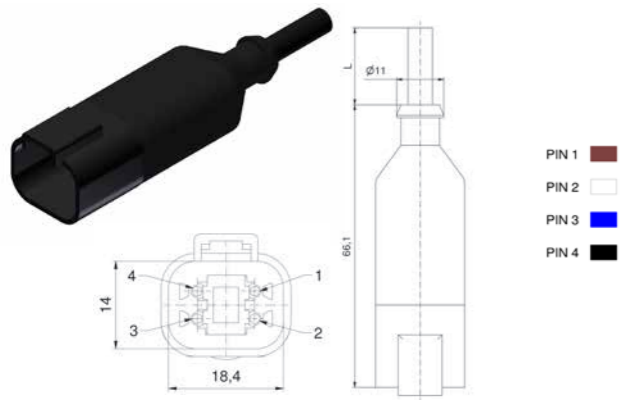
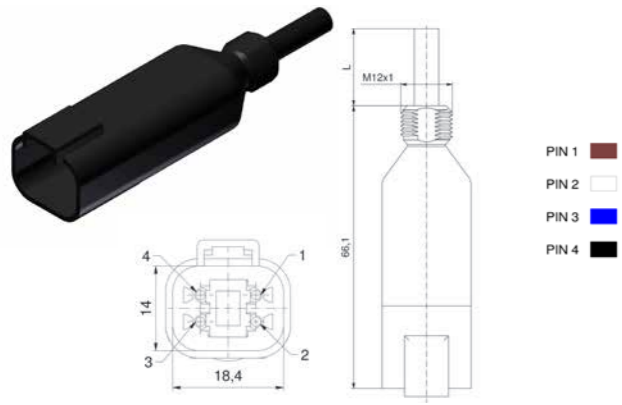


DT06, 4-pos.
Termination cap

| | | | | | | | |
|--|---|--|--|--|--|--------------|----------|
| | 4 | | | | | DT06-4S-A/AS | 55-01358 |
|--|---|--|--|--|--|--------------|----------|

Valve connectors
DT-Series

DT04, 4-pos.
Plug contacts

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|--|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|------------------------|----------|
|  | | 4 | 10 - 230 V AC/DC | 7 | 2 | PUR | 4 x 0.75 | DT04-4P-A/K1/0.75/2m | 55-00844 |
| | | | | 7 | 5 | | | DT04-4P-A/K1/0.75/5m | 55-00845 |
| | | | | 10 | | | | DT04-4P-A/K1/0.75/10m | 55-00846 |
| Without LED-protection circuit, M12 thread | | | | | | | | | |
|  | | 4 | 10 - 230 V AC/DC | 7 | 2 | PUR | 4 x 0.75 | DT04-4PG-A/K1/0.75/2m | 55-00847 |
| | | | | 7 | 5 | | | DT04-4PG-A/K1/0.75/5m | 55-00848 |
| | | | | 10 | | | | DT04-4PG-A/K1/0.75/10m | 55-00849 |

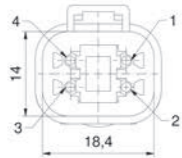
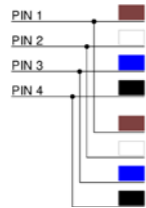
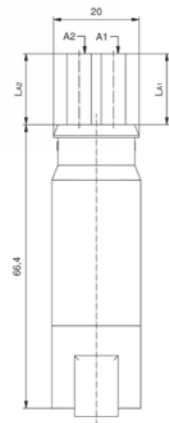
Valve connectors
DT-Series

DT04, 4-pos.
Plug contacts, double outlet

Without LED-protection circuit

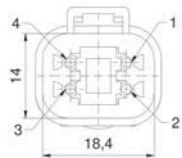
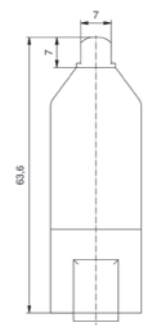
Contact assignment

| No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. |
|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|--------------------------------------|----------|
| 4 | 10 - 230 V AC/DC | 7 | 1 | PUR | 2 x 4 x 0.75 | YDT04-4P-A/K1/0.75/ 1m-K1/0.75/1m | 55-01320 |



DT04, 4-pos.
Termination cap

| | | | | | | | |
|---|--|--|--|--|--|--------------|----------|
| 4 | | | | | | DT04-4P-A/AS | 55-01359 |
|---|--|--|--|--|--|--------------|----------|



Valve connectors
DT-Series

DT06, 6-pos.
Socket contacts

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|------------------------|----------|
| | | 6 | 10 - 230 V AC/DC | 6 | 2 | PUR | 6 x 0.75 | DT06-6S-A/K1/0.75/2m | 55-00501 |
| | | | | | 5 | | | DT06-6S-A/K1/0.75/5m | 55-00502 |
| | | | | | 10 | | | DT06-6S-A/K1/0.75/10m | 55-00503 |
| Without LED-protection circuit, M12 thread | | | | | | | | | |
| | | 6 | 10 - 230 V AC/DC | 6 | 2 | PUR | 6 x 0.75 | DT06-6SG-A/K1/0.75/2m | 55-00504 |
| | | | | | 5 | | | DT06-6SG-A/K1/0.75/5m | 55-00505 |
| | | | | | 10 | | | DT06-6SG-A/K1/0.75/10m | 55-00506 |

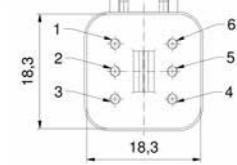
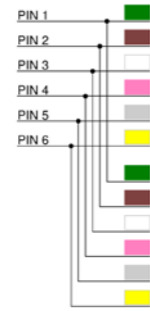
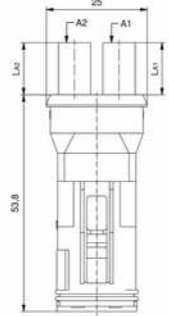
Valve connectors
DT-Series

DT06, 6-pos.
Socket contacts, double outlet

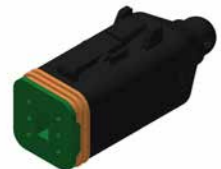
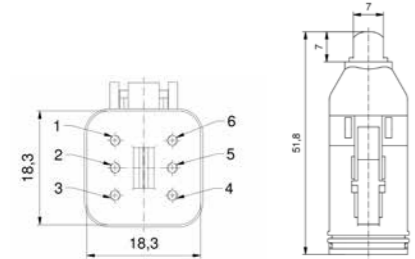
Without LED-protection circuit

Contact assignment

| No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. |
|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|--------------------------------------|----------|
| 6 | 10 - 230 V AC/DC | 6 | 1 | PUR | 2 x 6 x 0.75 | YDT06-6S-A/K1/0.75/ 1m-K1/0.75/1m | 55-01156 |

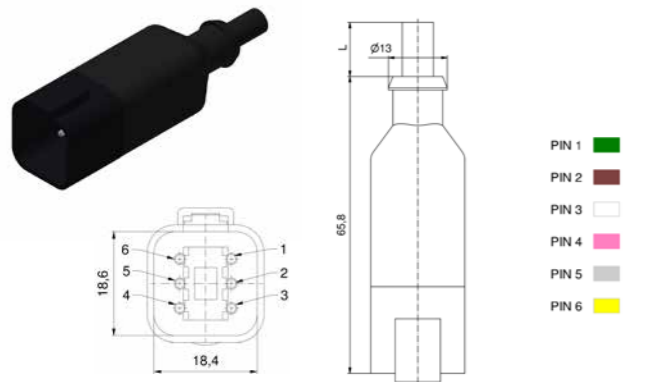
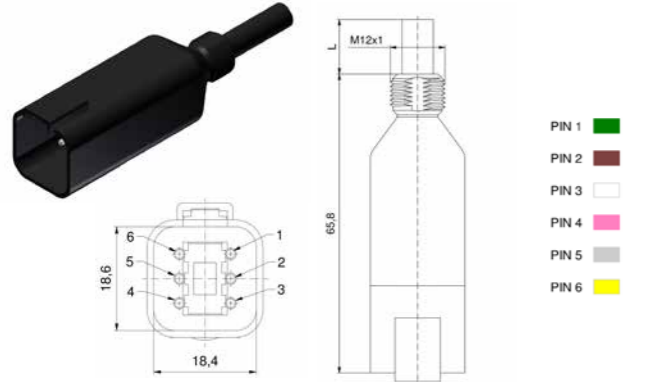


DT06, 6-pos.
Termination cap

| | | | | | | | |
|--|---|--|--|--|--|--------------|----------|
|   | 6 | | | | | DT06-6S-A/AS | 55-01360 |
|--|---|--|--|--|--|--------------|----------|

Valve connectors
DT-Series

DT04, 6-pos.
Plug contacts

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|--|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|------------------------|----------|
|  | | 6 | 10 - 230 V AC/DC | 6 | 2 | PUR | 6 x 0.75 | DT04-6P-A/K1/0.75/2m | 55-00507 |
| | | | | | 5 | | | DT04-6P-A/K1/0.75/5m | 55-00508 |
| | | | | | 10 | | | DT04-6P-A/K1/0.75/10m | 55-00509 |
| Without LED-protection circuit, M12 thread | | | | | | | | | |
|  | | 6 | 10 - 230 V AC/DC | 6 | 2 | PUR | 6 x 0.75 | DT04-6PG-A/K1/0.75/2m | 55-00510 |
| | | | | | 5 | | | DT04-6PG-A/K1/0.75/5m | 55-00511 |
| | | | | | 10 | | | DT04-6PG-A/K1/0.75/10m | 55-00512 |

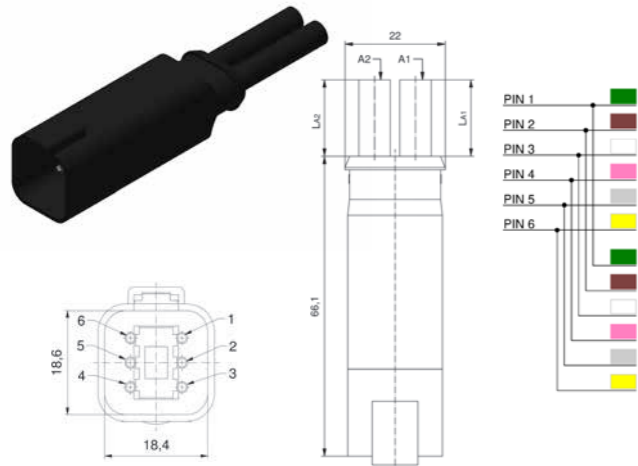
Valve connectors
DT-Series

DT04, 6-pos.
Plug contacts, double outlet

Without LED-protection circuit

Contact assignment

| No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. |
|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|--------------------------------------|----------|
| 6 | 10 - 230 V AC/DC | 6 | 1 | PUR | 2 x 6 x 0.75 | YDT04-6P-A/K1/0.75/ 1m-K1/0.75/1m | 55-01321 |

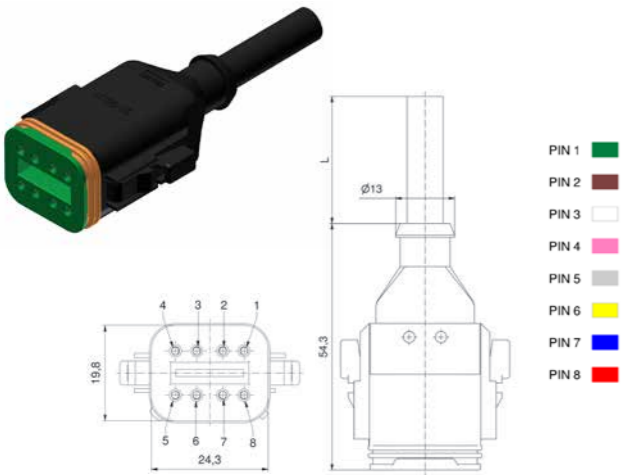
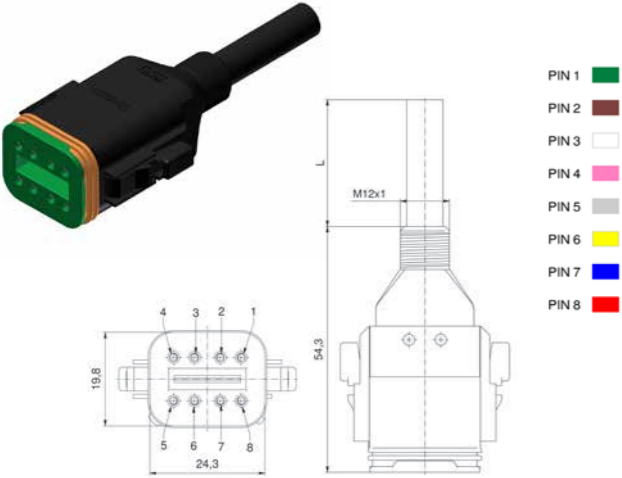


DT04, 6-pos.
Termination cap

| | | | | | | | |
|--|---|--|--|--|--|--------------|----------|
| | 6 | | | | | DT04-6P-A/AS | 55-01361 |
|--|---|--|--|--|--|--------------|----------|

Valve connectors
DT-Series

DT06, 8-pos.
Socket contacts

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. | |
|--|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|------------------------|-------------------------|----------|
|  | | 8 | 10 - 230 V AC/DC | 2 | | PUR | 8 x 0.75 | DT06-8AS-A/K1/0.75/2m | 55-00526 | |
| | | | | 6 | | | | 5 | DT06-8AS-A/K1/0.75/5m | 55-00527 |
| | | | | 6 | | | | 10 | DT06-8AS-A/K1/0.75/10m | 55-00528 |
| Without LED-protection circuit, M12 thread | | | | | | | | | | |
|  | | 8 | 10 - 230 V AC/DC | 2 | | PUR | 8 x 0.75 | DT06-8ASG-A/K1/0.75/2m | 55-00532 | |
| | | | | 6 | | | | 5 | DT06-8ASG-A/K1/0.75/5m | 55-00533 |
| | | | | 6 | | | | 10 | DT06-8ASG-A/K1/0.75/10m | 55-00534 |

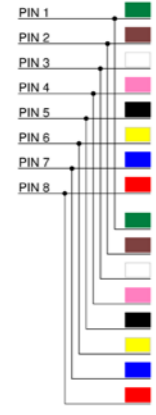
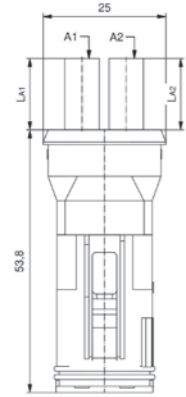
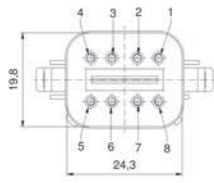
Valve connectors
DT-Series

DT06, 8-pos.
Socket contacts, double outlet


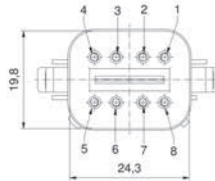
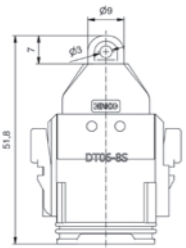
Without LED-protection circuit

Contact assignment

| No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. |
|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|--------------------------------------|----------|
| 8 | 10 - 230 V AC/DC | 6 | 1 | PUR | 2 x 8 x 0.75 | YDT06-8S-A/K1/0.75/ 1m-K1/0.75/1m | 55-01157 |

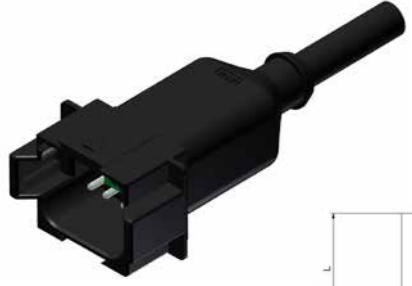
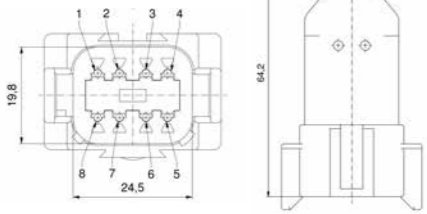
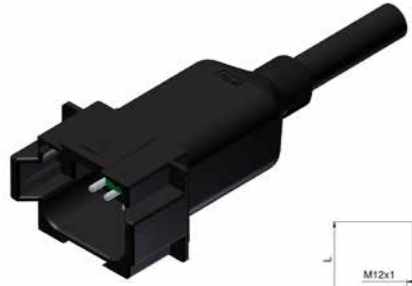
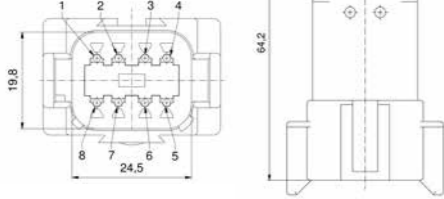


DT06, 8-pos.
Termination cap

| | | | | | | | |
|---|---|--|--|--|--|--------------|----------|
|    | 8 | | | | | DT06-8S-A/AS | 55-01362 |
|---|---|--|--|--|--|--------------|----------|

Valve connectors
DT-Series

DT04, 8-pos.
Plug contacts

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. | |
|---|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|------------------------|-------------------------|----------|
|   <ul style="list-style-type: none"> PIN 1 ■ PIN 2 ■ PIN 3 ■ PIN 4 ■ PIN 5 ■ PIN 6 ■ PIN 7 ■ PIN 8 ■ | | 8 | 10 - 230 V AC/DC | 2 | | PUR | 8 x 0.75 | DT04-8AP-A/K1/0.75/2m | 55-00529 | |
| | | | | 6 | | | | 5 | DT04-8AP-A/K1/0.75/5m | 55-00530 |
| | | | | 10 | | | | | DT04-8AP-A/K1/0.75/10m | 55-00531 |
|   <ul style="list-style-type: none"> PIN 1 ■ PIN 2 ■ PIN 3 ■ PIN 4 ■ PIN 5 ■ PIN 6 ■ PIN 7 ■ PIN 8 ■ | | 8 | 10 - 230 V AC/DC | 2 | | PUR | 8 x 0.75 | DT04-8APG-A/K1/0.75/2m | 55-00535 | |
| | | | | 6 | | | | 5 | DT04-8APG-A/K1/0.75/5m | 55-00536 |
| | | | | 10 | | | | | DT04-8APG-A/K1/0.75/10m | 55-00537 |

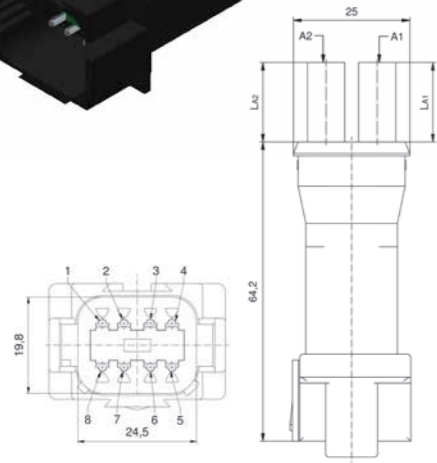
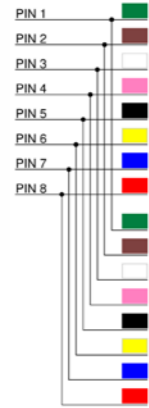
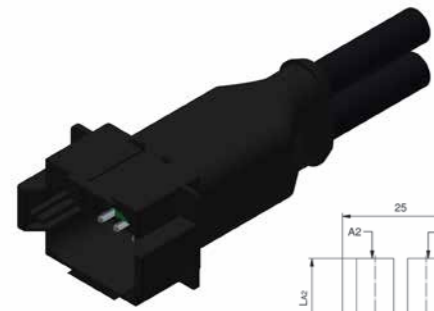
Valve connectors
DT-Series

DT06, 8-pos.
Plug contacts, double outlet


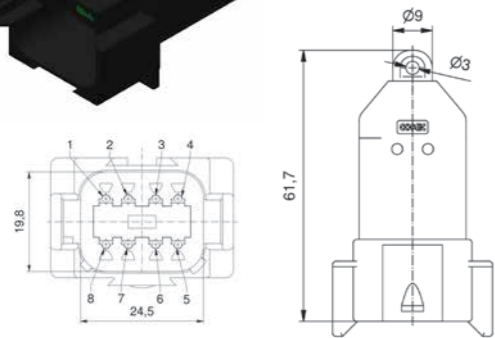
Without LED-protection circuit

Contact assignment

| No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. |
|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|--------------------------------------|----------|
| 8 | 10 - 230 V AC/DC | 6 | 1 | PUR | 2 x 8 x 0.75 | YDT04-8P-A/K1/0.75/ 1m-K1/0.75/1m | 55-01383 |



DT04, 8-pos.
Termination cap

| | | | | | | | |
|--|---|--|--|--|--|--------------|----------|
|   | 8 | | | | | DT04-8P-A/AS | 55-01363 |
|--|---|--|--|--|--|--------------|----------|

Valve connectors
DT-Series

DT06, 12-pos.
Socket contacts

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|--------------------------------|--|--------------|-------------------|-------------------------|----------------------|---------------|---------------------------------------|-------------|----------|
| | <ul style="list-style-type: none"> PIN 1 ■ PIN 2 ■ PIN 3 ■ PIN 4 ■ PIN 5 ■ PIN 6 ■ PIN 7 ■ PIN 8 ■ PIN 9 ■ PIN 10 ■ PIN 11 ■ PIN 12 ■ | 12 | 10 - 230 V AC/DC | 2 | PUR | 12 x 0.75 | DT06-12AS-A/K1/0.75/2m | 55-00553 | |
| | | 5 | | DT06-12AS-A/K1/0.75/5m | | | 55-00554 | | |
| | | 10 | | DT06-12AS-A/K1/0.75/10m | | | 55-00555 | | |

DT06, 12-pos.
Termination cap

| | | | | | | | | | |
|--|--|----|--|--|--|--|--|---------------|----------|
| | | 12 | | | | | | DT06-12S-A/AS | 55-01364 |
|--|--|----|--|--|--|--|--|---------------|----------|

Valve connectors
DT-Series

DT04, 12-pos.
Plug contacts

| Without LED-protection circuit | Contact assignment | No. of poles | Rated voltage [A] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm²] | Description | Part No. |
|--------------------------------|---|--------------|-------------------|--------------------|----------------------|---------------|--------------------------|-------------------------|----------|
| | <ul style="list-style-type: none"> PIN 1 ■ PIN 2 ■ PIN 3 ■ PIN 4 ■ PIN 5 ■ PIN 6 ■ PIN 7 ■ PIN 8 ■ PIN 9 ■ PIN 10 ■ PIN 11 ■ PIN 12 ■ | 12 | 10 - 230 V AC/DC | 2 | 5 | PUR | 12 x 0.75 | DT04-12AP-A/K1/0.75/2m | 55-00556 |
| | | | | 5 | | | | DT04-12AP-A/K1/0.75/5m | 55-00557 |
| | | | | 10 | | | | DT04-12AP-A/K1/0.75/10m | 55-00558 |

DT04, 12-pos.
Termination cap

| | | | | | | | | | |
|--|--|----|--|--|--|--|--|---------------|----------|
| | | 12 | | | | | | DT04-12P-A/AS | 55-01365 |
|--|--|----|--|--|--|--|--|---------------|----------|

SECTION 3

VALVE CONNECTORS SUPERSEAL-SERIES





VALVE CONNECTORS SUPERSEAL-SERIES

Nomenclature

Y VSS1.5 - 2 S L - A - 03 / K1 / 0.75 2m - K1...

Form

Y= Y-Splitter

Type

VSS1.5

No. of poles

2 = 2-pos.
3 = 3-pos.
4 = 4-pos.
5 = 5-pos.
6 = 6-pos.

Type

S = Socket contacts/Plug housing
P = Plug contacts/Cap housing

Cable style

= cable
L = Single wire (only 2-pos. version)

Termination protection hose

= Standard

Protection circuit

A = without protection circuit

Colour Overmoulding

= Black (without LED-protection circuit); translucent (withLED-protection circuit)
03 = Blue
04 = Green
05 = Yellow
06 = Red
07 = White

Material cable

K1 = TPU, black, highflexible, halogenfree, UL
A1 = PVC single wire
AS = Termination cap (without contacts)*
other types upon request *with circuit upon request

Wire cross section

0.75 = 0,75 mm²

Cable length

2 m = 2 meter
5 m = 5 meter
10 m = 10 meter

Description outlet 2 [Y-Splitter/ Double outlet]


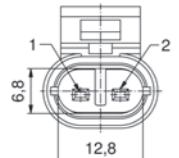
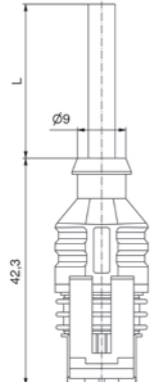


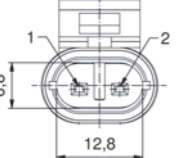
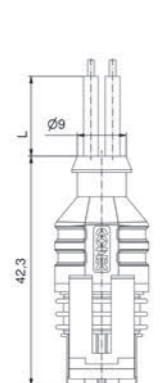


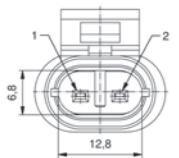
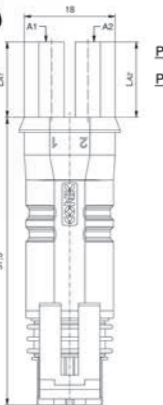


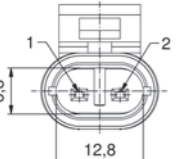
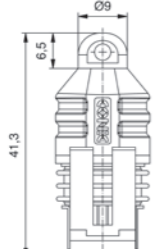
VALVE CONNECTORS SUPERSEAL-SERIES

Product specification

| | |
|-------------------------------|---|
| Basic material | |
| Contact | Copper alloy |
| Contact plating | Sn |
| Contact carrier | PA 6.6 GF |
| Overmould | TPU, UL94 |
| Sealing | Silicone |
| Technical Data | |
| Rated voltage | max. 24 V DC |
| Current rating | 8 A at 40 °C [2-pos.] 8 A at 40 °C [3-pos.] 7 A at 40 °C [4-pos.] 7 A at 40 °C [5-pos.] 6 A at 40 °C [6-pos.] |
| Degree of protection | IP67 / IP69K in mated condition |
| Temperature range connectors | -40 °C to +85 °C |
| Temperature range cable | Fixed installation: -40 °C to +80 °C Flexible installation: -25 °C to +80 °C |
| Temperature range single wire | Fixed installation: -40 °C to +105 °C Flexible installation: -10 °C to +105 °C |
| Terminal cross section | 0,75 mm ² /AWG 18 |
| Housing | Superseal 1.5, black |

VALVE CONNECTORS
Superseal-Series

VSS 1.5
2-pos.

| Socket contacts | | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---|---|---|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|------------------------------------|----------|
|   |  |  | 2 | max. 24 V DC | 8 | 5 | PUR | 2 x 0.75 | VSS1.5-2S-A/K1/0.75/2m | 55-00470 |
| | | | | | 8 | 5 | PVC | 2 x 0.75 | VSS1.5-2S-A/K1/0.75/5m | 55-00471 |
| | | | | | 8 | 10 | | | VSS1.5-2S-A/K1/0.75/10m | 55-00472 |
| Socket contacts, single wire | | | | | | | | | | |
|   |  |  | 2 | max. 24 V DC | 8 | 0.5 | PVC | 2 x 0.75 | VSS1.5-2SL-A/A1/0.75/0.5m | 55-00582 |
| | | | | | 8 | 2 | PVC | 2 x 0.75 | VSS1.5-2SL-A/A1/0.75/2m | 55-00583 |
| | | | | | 8 | 5 | | | VSS1.5-2SL-A/A1/0.75/5m | 55-00584 |
| Socket contacts, double outlet | | | | | | | | | | |
|   |  |  | 2 | max. 24 V DC | 8 | 1 | PUR | 2 x 2 x 0.75 | YVSS1.5-2S-A/K1/0.75/1m-K1/0.75/1m | 55-01300 |
| Termination cap | | | | | | | | | | |
|   |  | | 2 | | | | | | VSS1.5-2S-A/AS | 55-01298 |

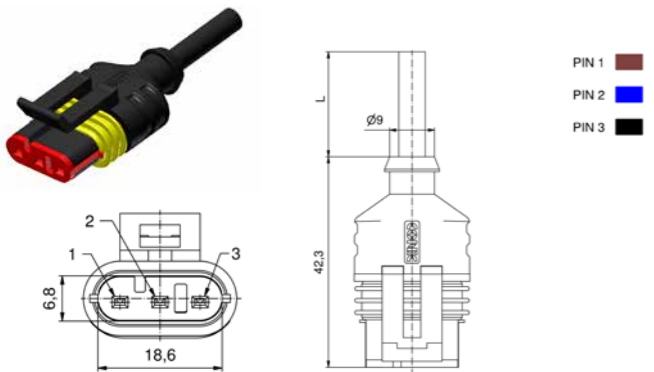
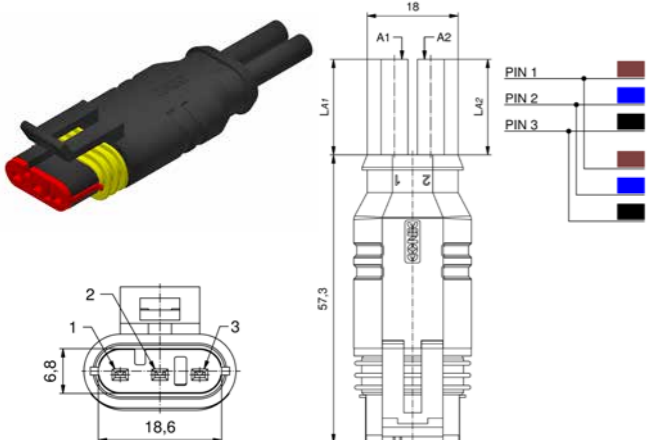
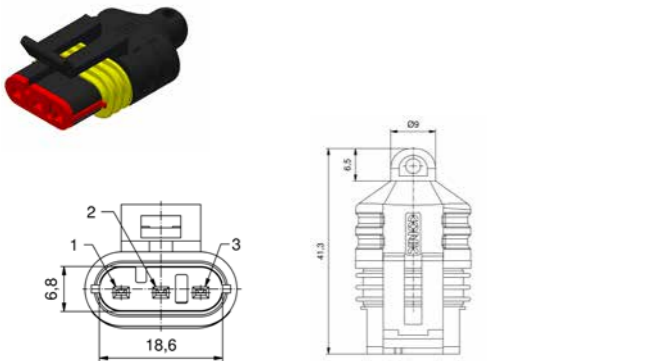
VALVE CONNECTORS
Superseal-Series

VSS 1.5
2-pos.

| Plug contacts | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|-----------------------------------|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|---------------------------|----------|
| | | 2 | max. 24 V DC | 2 | 2 | PUR | 2 x 0.75 | VSS1.5-2P-A/K1/0.75/2m | 55-00466 |
| | | | | 5 | | | | VSS1.5-2P-A/K1/0.75/5m | 55-00467 |
| | | | | 10 | | | | VSS1.5-2P-A/K1/0.75/10m | 55-00468 |
| Plug contacts, single wire | | | | | | | | | |
| | | 2 | max. 24 V DC | 0.5 | 2 | PVC | 2 x 0.75 | VSS1.5-2PL-A/A1/0.75/0.5m | 55-00585 |
| | | | | 2 | | | | VSS1.5-2PL-A/A1/0.75/2m | 55-00586 |
| | | | | 5 | | | | VSS1.5-2PL-A/A1/0.75/5m | 55-00587 |
| Termination cap | | | | | | | | | |
| | | 2 | | | | | | VSS1.5-2P-A/AS | 55-01299 |

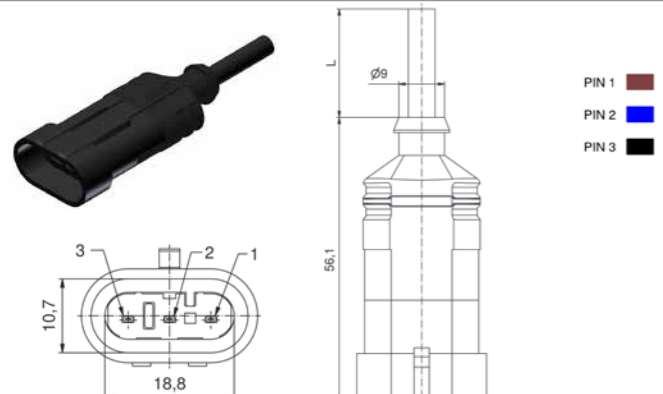
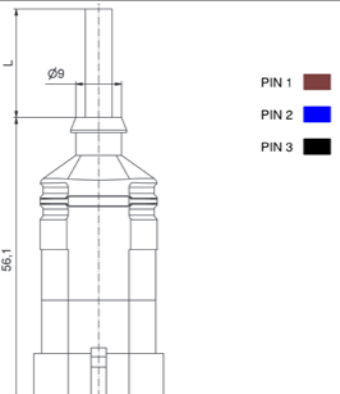
VALVE CONNECTORS
Superseal-Series


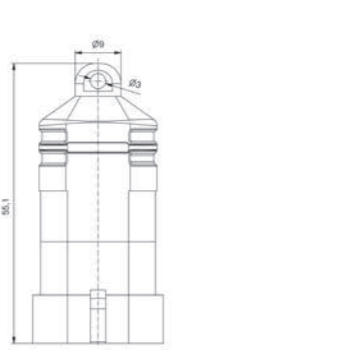
VSS 1.5
3-pos.

| Socket contacts | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|--|----------|
|  | | 3 | max. 24 V DC | 2 | | PUR | 3 x 0.75 | VSS1.5-3S-A/K1/0.75/2m | 55-00478 |
| | | | | 8 | 5 | | | VSS1.5-3S-A/K1/0.75/5m | 55-00479 |
| | | | | | 10 | | | VSS1.5-3S-A/K1/0.75/10m | 55-00480 |
|  | | 3 | max. 24 V DC | 8 | 1 | PUR | 2 x 0.75 3 x 0.75 | VVSS1.5-3S-A/K1/0.75/ 1m-K1/0.75/1m | 55-01301 |
|  | | 3 | | | | | | VSS1.5-3S-A/AS | 55-01376 |

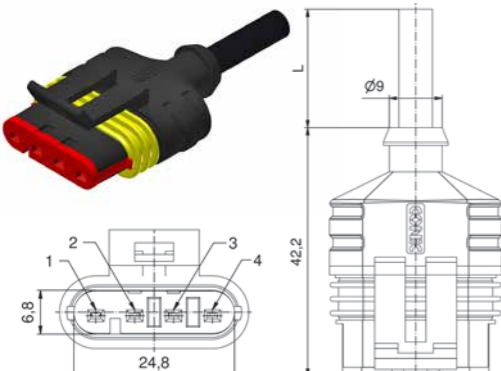
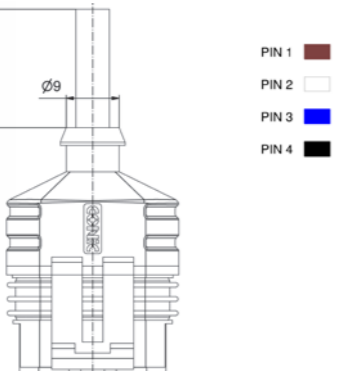
VALVE CONNECTORS
Superseal-Series

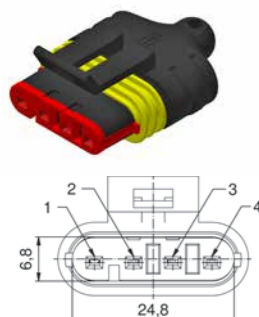
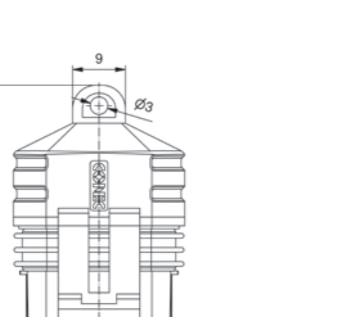
VSS 1.5
3-pos.

| Plug contacts | | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---|---|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|-------------------------|----------|
|  |  | 3 | max. 24 V DC | 2 | 2 | PUR | 3 x 0.75 | VSS1.5-3P-A/K1/0.75/2m | 55-00474 |
| | | | | 5 | | | | VSS1.5-3P-A/K1/0.75/5m | 55-00475 |
| | | | | 10 | | | | VSS1.5-3P-A/K1/0.75/10m | 55-00476 |

| Plug contacts, termination plug | | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|--|--|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|----------------|----------|
|  |  | 3 | | | | | | VSS1.5-3P-A/AS | 55-01375 |


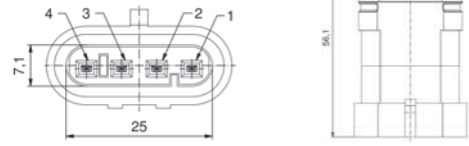


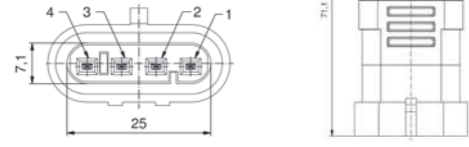


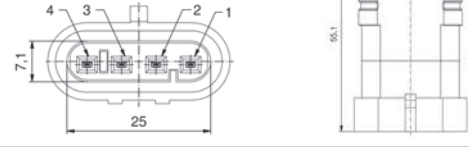
VSS 1.5
4-pos.

| Socket contacts | | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---|---|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|-------------------------|----------|
|  |  | 4 | max. 24 V DC | 2 | 7 | PUR | 4 x 0.75 | VSS1.5-4S-A/K1/0.75/2m | 55-00595 |
| | | | | 5 | | | | VSS1.5-4S-A/K1/0.75/5m | 55-00596 |
| | | | | 10 | | | | VSS1.5-4S-A/K1/0.75/10m | 55-00597 |

| Termination cap | | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---|---|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|----------------|----------|
|  |  | 4 | | | | | | VSS1.5-4S-A/AS | 55-01378 |


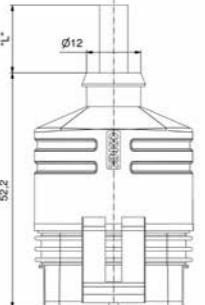

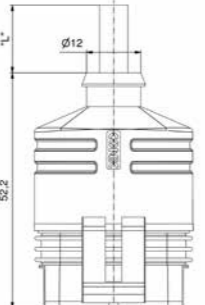

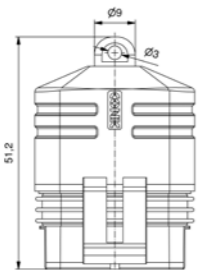

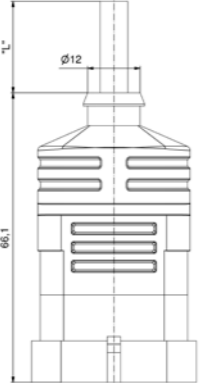
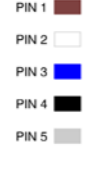
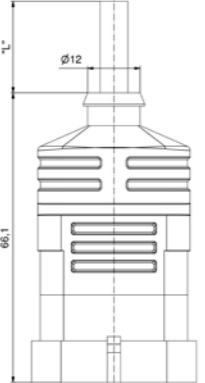

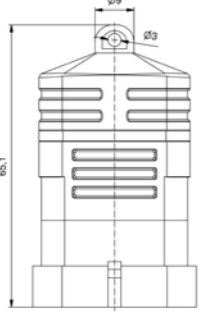
VALVE CONNECTORS
Superseal-Series

VSS 1.5
4-pos.

| Plug contacts | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|--|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|------------------------------------|----------|
|    | | 4 | max. 24 V DC | 2 | 7 | PUR | 4 x 0.75 | VSS1.5-4P-A/K1/0.75/2m | 55-00598 |
| | | | | 5 | | | | VSS1.5-4P-A/K1/0.75/5m | 55-00599 |
| | | | | 10 | | | | VSS1.5-4P-A/K1/0.75/10m | 55-00600 |
| Plug contacts, double outlet | | | | | | | | | |
|    | | 4 | max. 24 V DC | 7 | 1 | PUR | 2 x 4 x 0.75 | YVSS1.5-4P-A/K1/0.75/1m-K1/0.75/1m | 55-01149 |
| Termination cap | | | | | | | | | |
|   | | 4 | | | | | | VSS1.5-4P-A/AS | 55-01377 |


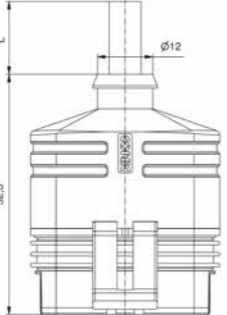


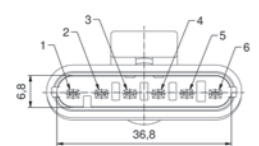

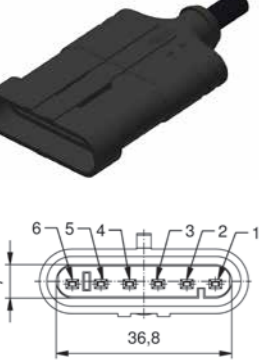


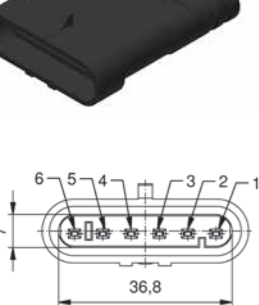
VALVE CONNECTORS
Superseal-Series

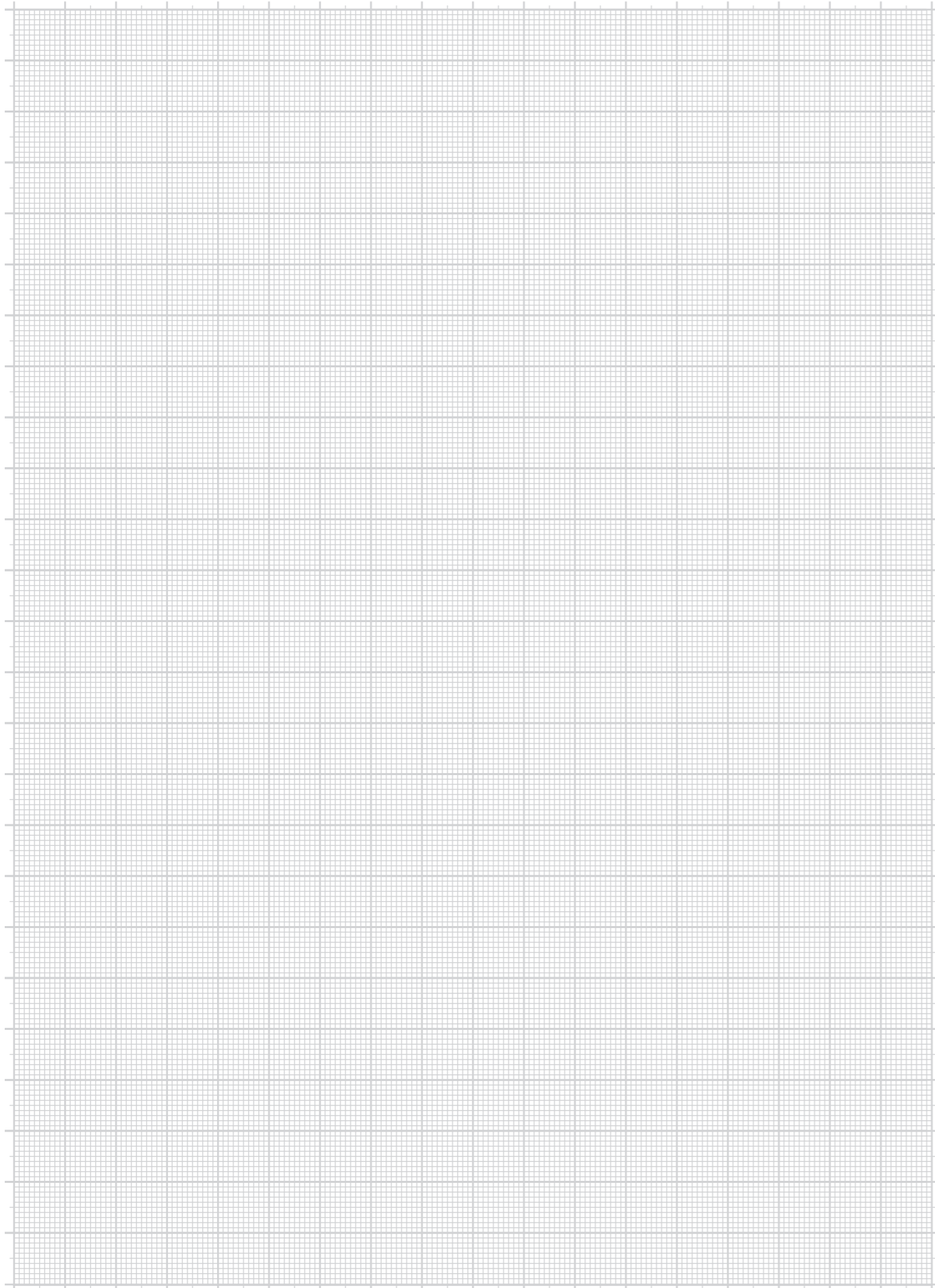
VSS 1.5
5-pos.

| Socket contacts | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---|---|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|-------------------------|----------|
|    |  | 5 | max. 24 V DC | 7 | 5 | PUR | 5 x 0.75 | VSS1.5-5S-A/K1/0.75/2m | 55-00641 |
| | | | | | | | | VSS1.5-5S-A/K1/0.75/5m | 55-00642 |
| | | | | | | | | VSS1.5-5S-A/K1/0.75/10m | 55-00643 |
| Termination cap | | | | | | | | | |
|   | | 5 | | | | | | VSS1.5-5S-A/AS | 55-01380 |
| Plug contacts | | | | | | | | | |
|    |  | 5 | max. 24 V DC | 7 | 5 | PUR | 5 x 0.75 | VSS1.5-5P-A/K1/0.75/2m | 55-00644 |
| | | | | | | | | VSS1.5-5P-A/K1/0.75/5m | 55-00645 |
| | | | | | | | | VSS1.5-5P-A/K1/0.75/10m | 55-00646 |
| Termination cap | | | | | | | | | |
|   | | 5 | | | | | | VSS1.5-5P-A/AS | 55-01379 |

VALVE CONNECTORS
Superseal-Series

VSS 1.5
6-pos.

| Socket contacts | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|-------------------------|----------|
|    | | 6 | max. 24 V DC | 6 | 2 | PUR | 6 x 0.75 | VSS1.5-6S-A/K1/0.75/2m | 55-00647 |
| | | | | | 5 | | | VSS1.5-6S-A/K1/0.75/5m | 55-00648 |
| | | | | | 10 | | | VSS1.5-6S-A/K1/0.75/10m | 55-00649 |
| Termination cap | | | | | | | | | |
|   | | 6 | | | | | | VSS1.5-6S-A/AS | 55-01382 |
| Plug contacts | | | | | | | | | |
|    | | 6 | max. 24 V DC | 6 | 2 | PUR | 6 x 0.75 | VSS1.5-6P-A/K1/0.75/2m | 55-00650 |
| | | | | | 5 | | | VSS1.5-6P-A/K1/0.75/5m | 55-00651 |
| | | | | | 10 | | | VSS1.5-6P-A/K1/0.75/10m | 55-00652 |
| Termination cap | | | | | | | | | |
|   | | 6 | | | | | | VSS1.5-6P-A/AS | 55-01381 |



SECTION 4

VALVE CONNECTORS CPC SERIES _____





CONNECTORS CPC-SERIES

Nomenclature

Y CPC13 - 9 S L - A - 03 / K1 / 0.75 / 2m - K1...

Form

Y = Y-Splitter

Type

CPC13 = Shell size 13
CPC17 = Shell size 17

No. of poles

7 = 7-pos. (Size 13)
9 = 9-pos. (Size 13)
3 = 3-pos. (Size 17)

Type

S = Socket contacts/Plug housing
P = Plug contacts/Receptacle housing

Cable style

= cable
L = Single wire (only 2-pos. version)

Termination protection hose

= Standard

Protection circuit

A = without protection circuit

Colour Overmoulding

= Black
03 = Blue
04 = Green
05 = Yellow
06 = Red
07 = White

Material cable

K1 = TPU, black, highflexible, halogenfree, UL
A1 = PVC single wire
AS = Termination cap (without contacts)*
other types upon request *with circuit upon request

Wire cross section

0.75 = 0,75 mm²

Cable length

2m = 2 meter
5m = 5 meter
10m = 10 meter

Description outlet 2 [Y-Splitter/ Double outlet]


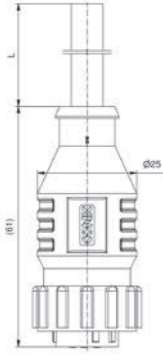

CPC-SERIES

Product specification

| | |
|-------------------------------|---|
| Basic material | |
| Contact | Copper alloy |
| Contact plating | Sn |
| Contact carrier | Thermoplastic UL 94-V0 |
| Overmould | TPU, UL94 |
| Sealing | Silicone |
| Technical Data | |
| Sizes [No. of poles] | 13 [9, 7] 17 [3] |
| Locking type | Bayonet |
| Rated voltage | max. 250 V AC/DC |
| Current rating | 5 A at 40 °C [9-pos.] 6 A at 40 °C [7-pos.] 15 A at 40 °C [3-pos.] |
| Degree of protection | IP67 in mated condition |
| Temperature range connectors | -40 °C to +105 °C |
| Temperature range cable | Fixed installation: -40 °C to +80 °C Flexible installation: -25 °C to +80 °C |
| Temperature range single wire | Fixed installation: -40 °C to +105 °C Flexible installation: -10 °C to +105 °C |
| Terminal cross section | 0,75 mm ² [9, 7-pos.] 1,5 mm ² [3-pos.] |
| Housing | CPC, black |

CPC CONNECTORS
overmoulded

CPC series 1 / Size 13
9-pos.

| Socket contacts, connecting cable | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|--|----------|
|    | | 9 | max. 250 V AC/DC | 2 | | PUR | 8x 0.75 | CPC13-9.04S-A/K1/ 0.75/2m | 55-40014 |
| | | | | 5 | 5 | | | CPC13-9.04S-A/K1/ 0.75/5m | 55-40015 |
| | | | | 10 | | | | CPC13-9.04S-A/K1/ 0.75/10m | 55-40016 |
| Socket contacts, double outlet | | 9 | max. 250 V AC/DC | 5 | 1 | PUR | 2x 8x 0.75 | YCPC13-9.04S-A/K1/ 0.75/1m-K1/0.75/1m | 55-40017 |
| Socket contacts, termination cap | | 9 | | | | | | CPC13-9S-A/AS | 55-40018 |

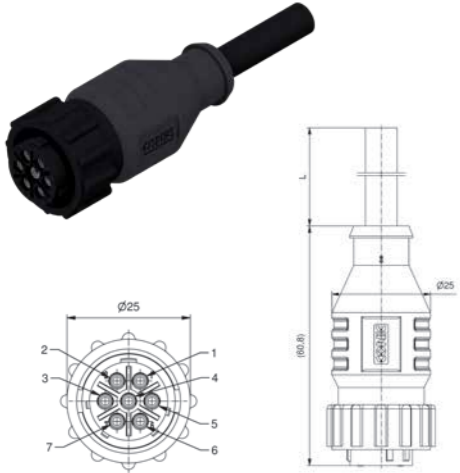
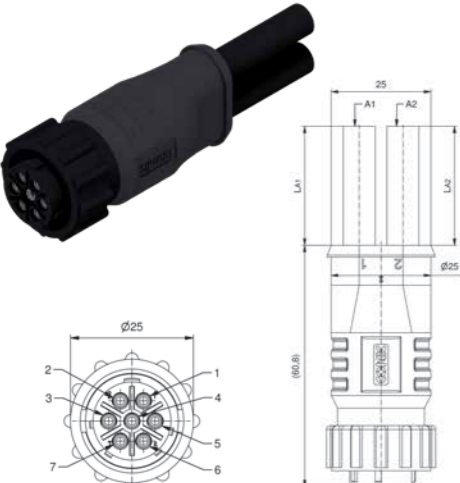

CPC CONNECTORS
overmoulded

CPC series 1 / Size 13
9-pos.

| Plug contacts, connecting cable | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---------------------------------|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|--|----------|
| | | 9 | max. 250 V AC/DC | 2 | | PUR | 8x 0.75 | CPC13-9.04P-A/K1/ 0.75/2m | 55-40019 |
| | | | | 5 | 5 | | | CPC13-9.04P-A/K1/ 0.75/5m | 55-40020 |
| | | | | 10 | | | | CPC13-9.04P-A/K1/ 0.75/10m | 55-40021 |
| Plug contacts, double outlet | | | | | | | | | |
| | | 9 | max. 250 V AC/DC | 5 | 1 | PUR | 2x 8x 0.75 | YCPC13-9.04P-A/K1/ 0.75/1m-K1/0.75/1m | 55-40022 |
| Plug contacts, termination cap | | | | | | | | | |
| | | 9 | | | | | | CPC13-9P-A/AS | 55-40023 |

CPC CONNECTORS
overmoulded

CPC series 1 / Size 13
7-pos.

| Socket contacts, connecting cable | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|--|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|--|----------|
|  <p> PIN 1: Green PIN 2: Brown PIN 3: White PIN 4: Pink PIN 5: Grey PIN 6: Yellow PIN 7: Blue </p> | | 7 | max. 250 V AC/DC | 2 | | PUR | 8x 0.75 | CPC13-7.12S-A/K1/ 0.75/2m | 55-40024 |
| | | | | 6 | 5 | | | CPC13-7.12S-A/K1/ 0.75/5m | 55-40025 |
| | | | | | 10 | | | CPC13-7.12S-A/K1/ 0.75/10m | 55-40026 |
| Socket contacts, double outlet | | | | | | | | | |
|  <p> PIN 1: Green PIN 2: Brown PIN 3: White PIN 4: Pink PIN 5: Grey PIN 6: Yellow PIN 7: Blue </p> | | 7 | max. 250 V AC/DC | 6 | 1 | PUR | 2x 8x 0.75 | YCPC13-7.12S-A/K1/ 0.75/1m-K1/0.75/1m | 55-40027 |
| Socket contacts, termination cap | | | | | | | | | |
|  | | 7 | | | | | | CPC13-7S-A/AS | 55-40028 |

CPC CONNECTORS
overmoulded

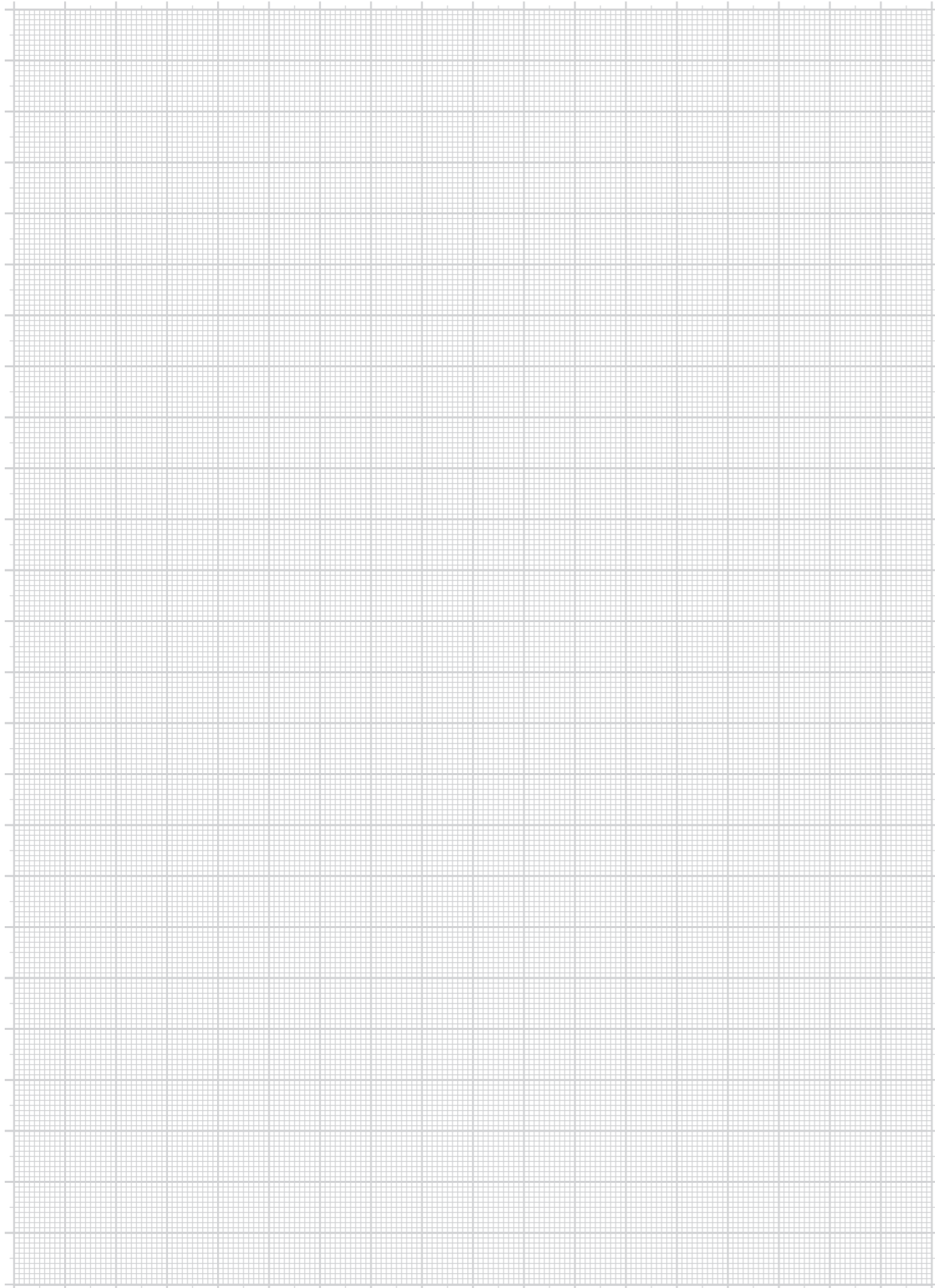
CPC series 1 / Size 13
7-pos.

| Plug contacts, connecting cable | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|---------------------------------|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|--|----------|
| | | 7 | max. 250 V AC/DC | 2 | | PUR | 8x 0.75 | CPC13-7.12P-A/K1/ 0.75/2m | 55-40029 |
| | | | | 6 | 5 | | | CPC13-7.12P-A/K1/ 0.75/5m | 55-40030 |
| | | | | | 10 | | | CPC13-7.12P-A/K1/ 0.75/10m | 55-40031 |
| Plug contacts, double outlet | | | | | | | | | |
| | | 7 | max. 250 V AC/DC | 6 | 1 | PUR | 2x 8x 0.75 | YCPC13-7.12P-A/K1/ 0.75/1m-K1/0.75/1m | 55-40032 |
| Plug contacts, termination cap | | | | | | | | | |
| | | 7 | | | | | | CPC13-7P-A/AS | 55-40033 |

CPC CONNECTORS
overmoulded

CPC series 3 / size 17
3-pos.

| Socket contacts, connecting cable | | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Cable quality | Wire cross section [mm ²] | Description | Part No. |
|-----------------------------------|--|--------------------|--------------|-------------------|--------------------|----------------------|---------------|---------------------------------------|-------------------------|----------|
| | | | 3 | max. 250 V AC/DC | 2 | | PUR | 3 x 1.5 | CPC17-3S-A/K1 / 1.5/2m | 55-40034 |
| | | | | | 5 | | | | CPC17-3S-A/K1 / 1.5/5m | 55-40035 |
| | | | | | 10 | | | | CPC17-3S-A/K1 / 1.5/10m | 55-40036 |
| Plug contacts, termination cap | | | | | | | | | | |
| | | | 3 | | | | | | CPC17-3S-A/AS | 55-40038 |



SECTION 5

M12x1 CONNECTORS OVERMOULDED



WITH PLASTIC COUPLING SCREW/NUT



M12x1 CONNECTORS OVERMOULDED WITH PLASTIC COUPLING NUT/SCREW

Nomenclature

SAL - 12 - R K W K 4 - 3 L - 2 / K1 / 0.75 - 03

SAL
Sensor Actor Line

Installation size
Coupling element

Coding
= Standard (A-cod.)

Type
R = Circular connectors

Gender
K = Female connector
S = Male connector

Configuration
= Axial
W = Angled

Screw locking
= GD-Zn, Ni
K = plastic coupling nut/screw

No. of poles
4 = 4-pos.
5 = 5-pos.

LED-Display
2L = 2 LED
3L = 3 LED

Cable length
xx = Length [m]

Cable quality
K1 = TPU, black, high flexible, halogenfree, UL

Wire cross section
050 = 0,50 mm²
075 = 0,75 mm²

Colour plastic coupling nut/screw
= Black
03 = Blue
04 = Green
05 = Yellow
06 = Red
07 = White


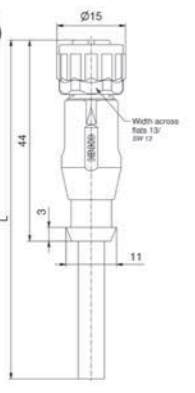









M12x1 CONNECTORS OVERMOULDED WITH PLASTIC COUPLING NUT/SCREW

Product specification

| | |
|------------------------|----------------------|
| Basic material | |
| Contact | CuZn |
| Contact plating | Ni, Au 0,2 gal. |
| Contact carrier | PA, UL 94 V-0 |
| Overmould | TPU, UL 94 HB, grey |
| Sealing | FPM |
| Coupling nut/screw | PA GF, UL 94 HB |
| Technical Data | |
| Rated voltage | 250 V / 60 V |
| Current rating | 4 A |
| Degree of protection | IP67 |
| Temperature range | -30 °C ... +80 °C |
| Terminal cross section | 0.75 mm ² |
| Insulation resistance | > = 100 MΩ |
| Pollution degree | 3/2 |
| Mating cycles | > = 100 |


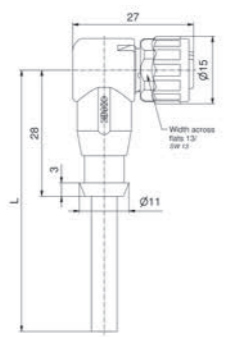









M12x1 Connectors overmoulded
With colored plastic coupling nut

Female connector
axial

| TPU, UL, black, Li9Y11Y | | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Wire cross section [mm ²] | Description | Part No. |
|---|---|--------------------|--------------|-------------------|--------------------|---------------------------|---------------------------------------|-------------|----------|
|   PIN 1  PIN 2  PIN 3  PIN 4  PIN 1  PIN 2  PIN 3  PIN 4  PIN 5  | 4 | 250 V | 4 | 2 | 0.75 | SAL-12-RKK4-2/K1/075-03 | 43-21436 | | |
| | 5 | 60 V | | | | SAL-12-RKK5.1-2/K1/075-03 | 43-21437 | | |

Additional wire cross sections, lengths and double ended variants on request.
* Please contact us if you are interested in the additional shown coloured coupling nut/screw.

Female connector
angled

| TPU, UL, black, Li9Y11Y | | Contact assignment | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Wire cross section [mm ²] | Description | Part No. |
|--|---|--------------------|--------------|-------------------|--------------------|----------------------------|---------------------------------------|-------------|----------|
|   PIN 1  PIN 2  PIN 3  PIN 4  PIN 1  PIN 2  PIN 3  PIN 4  PIN 5  | 4 | 250 V | 4 | 2 | 0.75 | SAL-12-RKWK4-2/K1/075-03 | 43-21438 | | |
| | 5 | 60 V | | | | SAL-12-RKWK5.1-2/K1/075-03 | 43-21439 | | |

M12x1 Connectors overmoulded
With colored plastic coupling screw

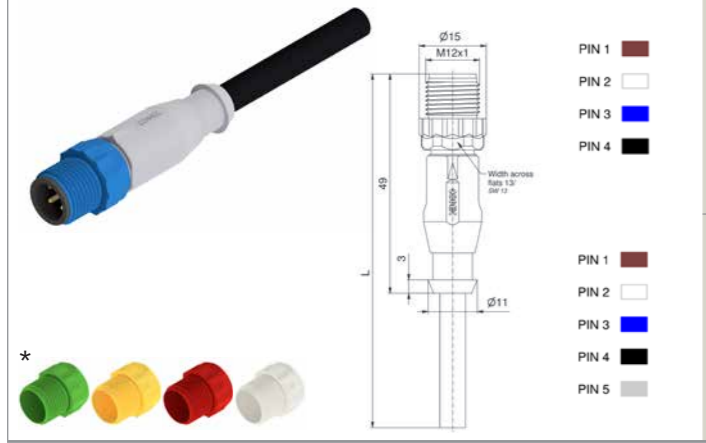
Male connector
axial

TPU, UL, black, Li9Y11Y

Contact assignment

| No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Wire cross section [mm ²] | Description | Part No. |
|--------------|-------------------|--------------------|----------------------|---------------------------------------|---------------------------|----------|
| 4 | 250 V | 4 | 2 | 0.75 | SAL-12-RSK4-2/K1/075-03 | 43-21440 |
| 5 | 60 V | 4 | 2 | 0.75 | SAL-12-RSK5.1-2/K1/075-03 | 43-21441 |

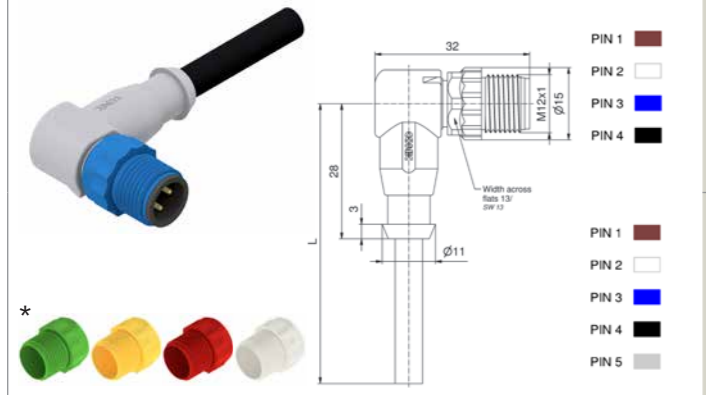
Additional wire cross sections, lengths and double ended variants on request.
* Please contact us if you are interested in the additional shown coloured coupling nut/screw.



Male connector
angled

TPU, UL, black, Li9Y11Y

| | | | | | | |
|---|-------|---|---|------|----------------------------|----------|
| 4 | 250 V | 4 | 2 | 0.75 | SAL-12-RSWK4-2/K1/075-03 | 43-21442 |
| 5 | 60 V | 4 | 2 | 0.75 | SAL-12-RSWK5.1-2/K1/075-03 | 43-21443 |



M12x1 Connectors overmoulded
Plastic coupling nut black

Female connector
axial

TPU, UL, black, Li9Y11Y

Contact assignment

| | | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Wire cross section [mm ²] | Description | Part No. |
|--|---|--------------|-------------------|--------------------|----------------------|---------------------------------------|-------------|----------|
| | 4 | 250 V | 4 | 0.75 | 2 | SAL-12-RKK4-2/K1/075 | 43-20337 | |
| | | | | | 5 | SAL-12-RKK4-5/K1/075 | 43-20339 | |
| | | | | | 10 | SAL-12-RKK4-10/K1/075 | 43-20340 | |
| | 5 | 60 V | 4 | 0.75 | 2 | SAL-12-RKK5.1-2/K1/075 | 43-20345 | |
| | | | | | 5 | SAL-12-RKK5.1-5/K1/075 | 43-20347 | |
| | | | | | 10 | SAL-12-RKK5.1-10/K1/075 | 43-20348 | |

Additional wire cross sections, lengths and double ended variants on request.

Female connector
angled

TPU, UL, black, Li9Y11Y

| | | No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Wire cross section [mm ²] | Description | Part No. |
|--|---|--------------|-------------------|--------------------|----------------------|---------------------------------------|-------------|----------|
| | 4 | 250 V | 4 | 0.75 | 2 | SAL-12-RKWK4-2/K1/075 | 43-20353 | |
| | | | | | 5 | SAL-12-RKWK4-5/K1/075 | 43-20355 | |
| | | | | | 10 | SAL-12-RKWK4-10/K1/075 | 43-20356 | |
| | 5 | 60 V | 4 | 0.75 | 2 | SAL-12-RKWK5.1-2/K1/075 | 43-20361 | |
| | | | | | 5 | SAL-12-RKWK5.1-5/K1/075 | 43-20363 | |
| | | | | | 10 | SAL-12-RKWK5.1-10/K1/075 | 43-20364 | |

**M12x1 Connectors overmoulded
Plastic coupling screw black**

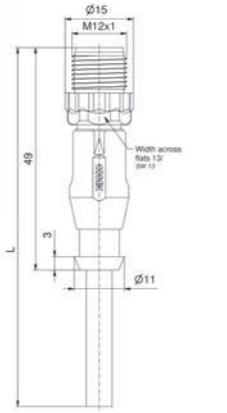
**Male connector
axial**

TPU, UL, black, Li9Y11Y

Contact assignment

| No. of poles | Rated voltage [V] | Current rating [A] | Cable length = L [m] | Wire cross section [mm ²] | Description | Part No. |
|--------------|-------------------|--------------------|----------------------|---------------------------------------|-------------------------|----------|
| 4 | 250 V | 4 | 0.75 | 2 | SAL-12-RSK4-2/K1/075 | 43-20341 |
| | | | | 5 | SAL-12-RSK4-5/K1/075 | 43-20343 |
| | | | | 10 | SAL-12-RSK4-10/K1/075 | 43-20344 |
| 5 | 60 V | 4 | 0.75 | 2 | SAL-12-RSK5.1-2/K1/075 | 43-20349 |
| | | | | 5 | SAL-12-RSK5.1-5/K1/075 | 43-20351 |
| | | | | 10 | SAL-12-RSK5.1-10/K1/075 | 43-20352 |

Additional wire cross sections, lengths and double ended variants on request.



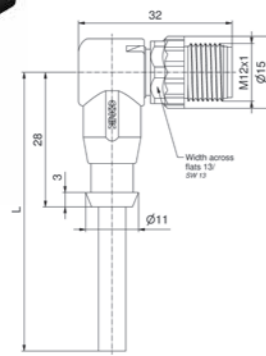
- PIN 1 ■
- PIN 2 ■
- PIN 3 ■
- PIN 4 ■

- PIN 1 ■
- PIN 2 ■
- PIN 3 ■
- PIN 4 ■
- PIN 5 ■

**Male connector
angled**

TPU, UL, black, Li9Y11Y

| | | | | | | |
|---|-------|---|------|----|--------------------------------|----------|
| 4 | 250 V | 4 | 0.75 | 2 | SAL-12-RSWK4-2/K1/075/A1090 | 43-20357 |
| | | | | 5 | SAL-12-RSWK4-5/K1/075/A1090 | 43-20359 |
| | | | | 10 | SAL-12-RSWK4-10/K1/075/A1090 | 43-20360 |
| 5 | 60 V | 4 | 0.75 | 2 | SAL-12-RSWK5.1-2/K1/075/A1090 | 43-20365 |
| | | | | 5 | SAL-12-RSWK5.1-5/K1/075/A1090 | 43-20367 |
| | | | | 10 | SAL-12-RSWK5.1-10/K1/075/A1090 | 43-20368 |



- PIN 1 ■
- PIN 2 ■
- PIN 3 ■
- PIN 4 ■

- PIN 1 ■
- PIN 2 ■
- PIN 3 ■
- PIN 4 ■
- PIN 5 ■

SECTION 6

JUNCTION SYSTEM TYPE S, M, L _____





Fields of application

In agricultural technology, too, the degree of automation is steadily increasing and hence the need to equip machines with sensors and other individual electrical components.

The new CONEC junction system provides a flexible way to integrate moulded branches/outlets in electrical connection lines such as e.g. cable harnesses. This ensures that the continuous lead sheathing retains its full functional integrity even at the splice site (at the junction system). The junction system is min. IP67-protected, electrically tested in the factory and thus offers a robust, tamper-proof way to electrify machines in a safe way. The PUR moulding provides good resistance for applications in the agricultural industry.

CONEC provides three different sizes of junctions systems (S, M and L).



Example: Selection light system








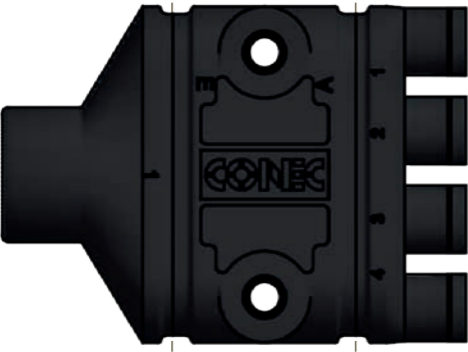

| Characteristics | Type S | Type M | Type L |
|---------------------------|--------------|--------------|--------------|
| Dimensions (L x W x H mm) | 66 x 30 x 15 | 66 x 40 x 15 | 76 x 55 x 22 |
| Cable entry | 1, 2 | 1, 2, 3 | 1, 4 |
| Cable exit | 1, 2 | 1, 2, 3 | 3, 4 |

Since the junction system is designed for cable entries and exits, there are almost unlimited possibilities to combine different connector systems. The limits are set by the maximum cable diameter of 8 mm for the variants S and M. Variant L is limited for the reception of maximum cable diameters of 17 mm and the cable diameters of the exits of the quadruple type to max. 8 mm and the triple type to max. 13 mm.

Each junction system has two attachment holes with M5 thread for easy and safe installation in the machines. In addition, a fixture to attach the distributor with a cable tie to the entry and exit is integrated in the housing. Thus, the system can be attached at the place of operation easily and securely according to the respective requirements and withstands the harshest conditions.

Due to the flexible design of internal wiring in the junction system, it is also possible to connect an integrated circuit, e.g. an integrated self-restoring fuse in a path in addition to the simple 1:n connection. Possibilities are almost unlimited. Please do not hesitate to contact us about your individual requirements, we can implement them.

JUNCTION SYSTEM TYPE S, M, L
Overview

| Suitable series | Input | Output | Suitable series |
|--|---|--------|--|
|  VSS - Series Type: S, M, L | 1, 2  Type S 1, 2 | |  M8 - Series Type: S, M, L |
|  DT - Series Type: S, M, L | 1, 2, 3  Type M 1, 2, 3 | |  M12 - Series Type: S, M, L |
|  ISOBUS - Series Type: L | 1, 4  Type L 3, 4 | |  CPC - Series Type: S, M, L |

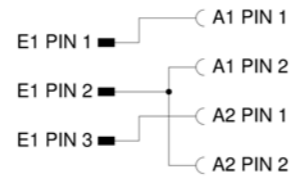
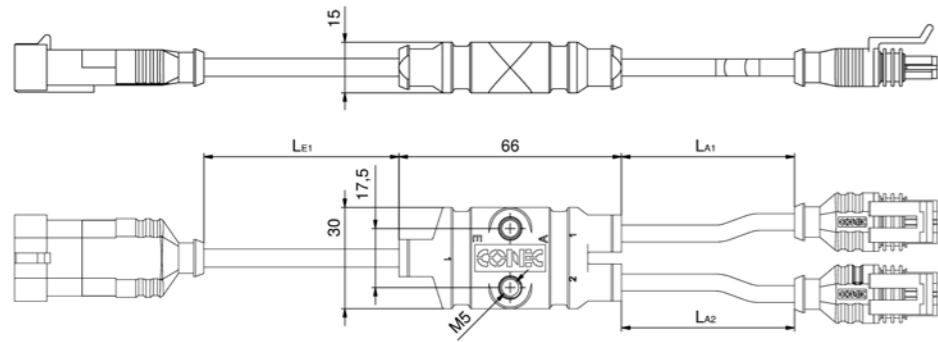
| Characteristics | Type S | Type M | Type L |
|---------------------------|------------------------------|------------------------------|-------------------------------------|
| Dimensions (L x W x H mm) | 66 x 30 x 15 | 66 x 40 x 15 | 76 x 55 x 22 |
| Cable entry | 1, 2 | 1, 2, 3 | 1, 4 |
| Cable exit | 1, 2 | 1, 2, 3 | 3, 4 |
| Overmould | TPU UL94 V-0 | TPU UL94 V-0 | TPU UL94 V-0 |
| Cable quality | PUR (0.75 mm ²)* | PUR (0.75 mm ²)* | PUR (Hybrid)* |
| Max. cable diameter entry | 8 mm | 11 mm | 17 mm (1 entry) 8 mm (4 entries) |
| Max. cable diameter exit | 8 mm | 8 mm | 13 mm (3 exits) 8 mm (4 exits) |
| Degree of protection | IP67 | IP67 | IP67 |

* Other cable qualities on request

Type S

1 Entry / 2 Exits

Contact Assignment

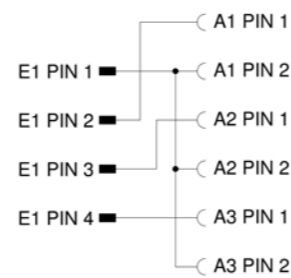
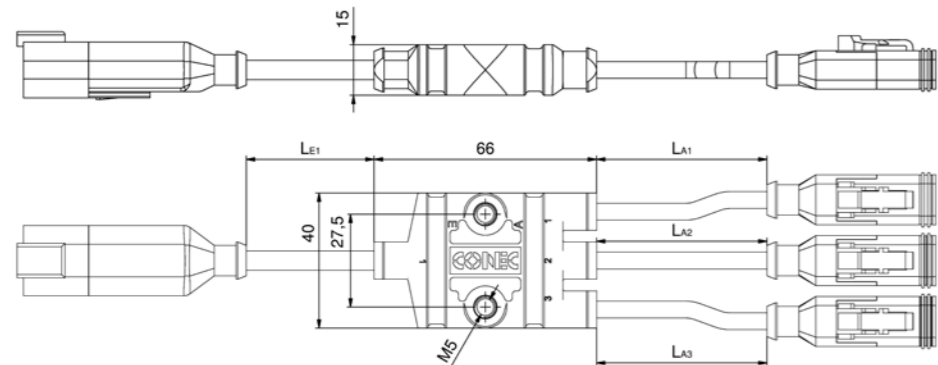


| Entry E_{1-2} | Type | Length $L_{E_{1-2}}$ [m] | Distribution type | Exit A_{1-2} | Type | Length $L_{A_{1-2}}$ [m] | Article |
|-----------------|-------------|--------------------------|-------------------|----------------|-------------|--------------------------|----------|
| E1 | VSS1.5-3P-A | 0,6 | S | A1 | VSS1.5-2S-A | 0,6 | 55-20001 |
| E2 | - | - | | A2 | VSS1.5-2S-A | 0,6 | |

Type M

1 Entry / 3 Exits

Contact Assignment

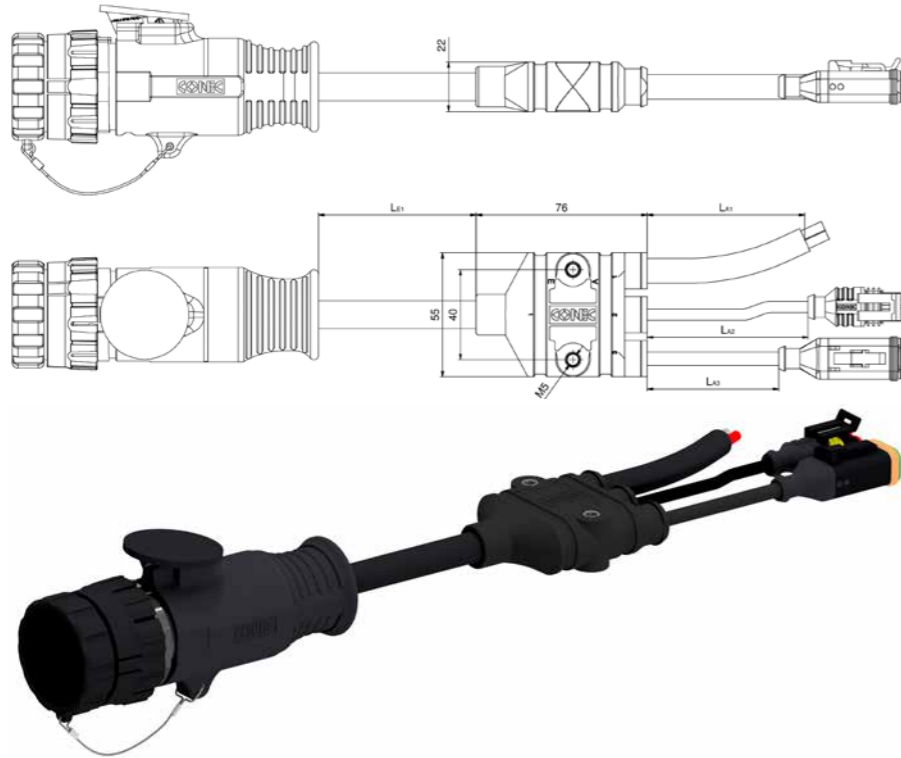


| Entry E_{1-3} | Type | Length $L_{E_{1-3}}$ [m] | Distribution type | Exit A_{1-3} | Type | Length $L_{A_{1-3}}$ [m] | Article |
|-----------------|-----------|--------------------------|-------------------|----------------|-----------|--------------------------|----------|
| E1 | DT04-4P-A | 0,6 | M | A1 | DT06-2S-B | 0,6 | 55-20002 |
| E2 | - | - | | A2 | DT06-2S-B | 0,6 | |
| E3 | - | - | | A3 | DT06-2S-B | 0,6 | |

Type L

1 Entry / 3 Exits

Contact Assignment

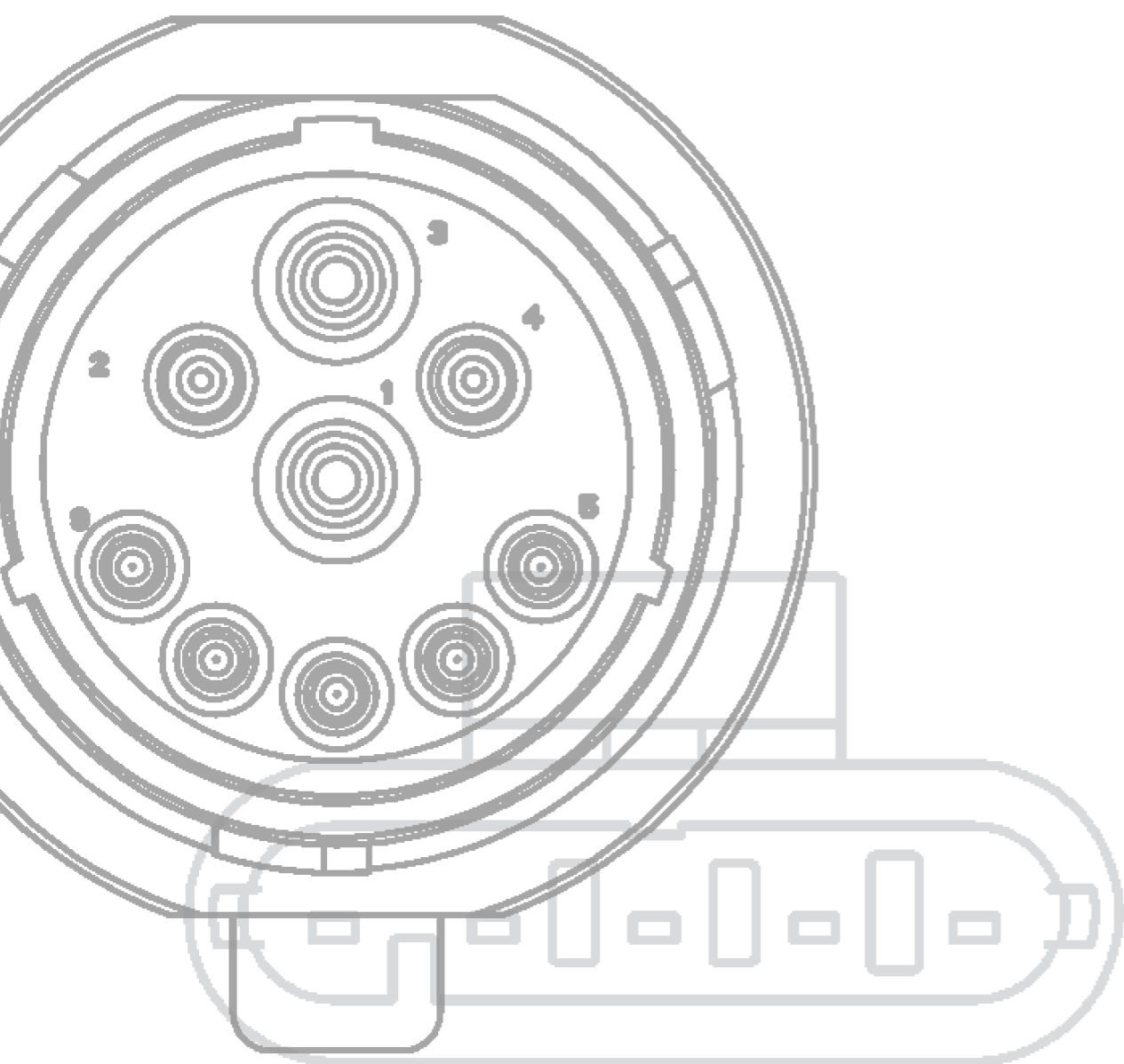


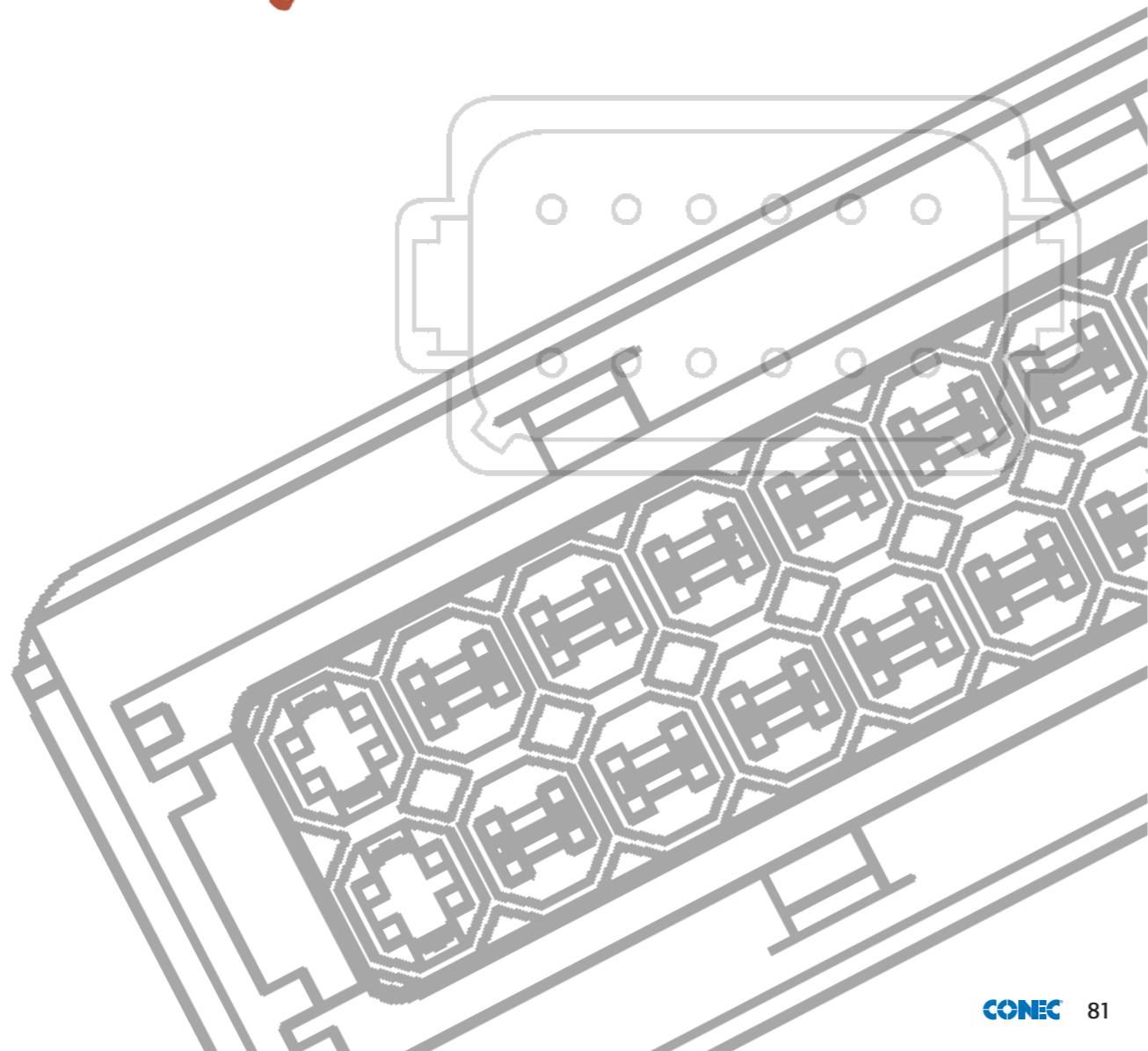
- E1 PIN 1 (6mm²) — A1 PIN 1
- E1 PIN 2 (2,5mm²) — A1 PIN 2
- E1 PIN 3 (6mm²) — A2 PIN 1
- E1 PIN 4 (2,5mm²) — A2 PIN 2
- E1 PIN 5 —
- E1 PIN 6 (0,5mm²) — A3 PIN 1
- E1 PIN 7 (0,5mm²) — A3 PIN 2
- E1 PIN 8 (0,5mm²) — A3 PIN 3
- E1 PIN 9 (0,5mm²) — A3 PIN 4

| Entry E_1 | Type | Length L_{E_1-3} [m] | Distribution type | Exit A_{1-4} | Type | Length L_{A_1-4} [m] | Article |
|-------------|-------|------------------------|-------------------|----------------|-------------|------------------------|----------|
| E1 | HDP26 | 2,5 | L | A1 | Leitung | 1,2 | 55-20003 |
| | | | | A2 | VSS1.5-2S-A | 1,0 | |
| | | | | A3 | DT06-4S-A | 1,0 | |
| | | | | A4 | - | - | |

SECTION 7

TECHNICAL INFORMATION





TECHNICAL INFORMATION

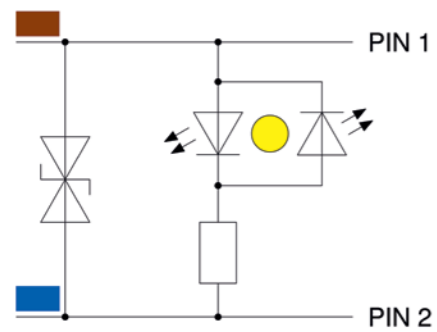
Protection circuits 2- and 3-pos. DT connectors

Protection circuits are currently available in 3 different versions.

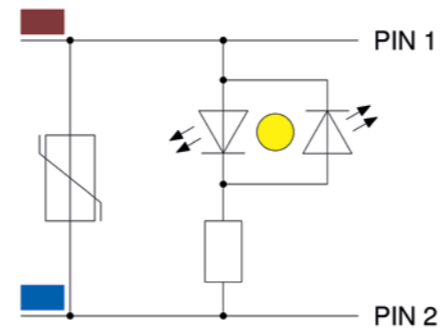
- 1) Protection circuit with suppressor diode + 2 LEDs (yellow)
- 2) Protection circuit with varistor + 2 LEDs (yellow)
- 3) Protection circuit with freewheeling diode + 1 LED (yellow)

Protection circuits with suppressor diode or varistor:

With suppressor diode:



With varistor:



The protection circuits with suppressor diode and varistor are designed bi-directionally. Thus, they can be operated both with DC and AC voltage regardless of the polarity.

These two circuit versions are used to protect downstream electronic circuits against temporary overvoltages. Such overvoltages may be caused by switching operations in the system and the resulting voltage pulses may be of negative as well as of positive nature. The pulses are limited by the respective protection element to defined voltages above the operating voltage of the protection element.

The protective circuits with varistor and suppressor diode differ in the technical specifications shown below:

| | Suppressor diode | Varistor |
|-------------------|------------------|----------|
| Response | + | - |
| Breakthrough area | + | - |
| Energy absorption | - | + |

In general, suppressor diodes respond slightly faster than varistors and in a closer breakthrough area, which is closer to the operating voltage of the protection element breakthrough area. However, varistors are able to absorb higher amounts of energy than suppressor diodes.

As a result of the faster response, suppressor diodes are perfectly suitable in areas of input / output interfaces and sensitive circuits.

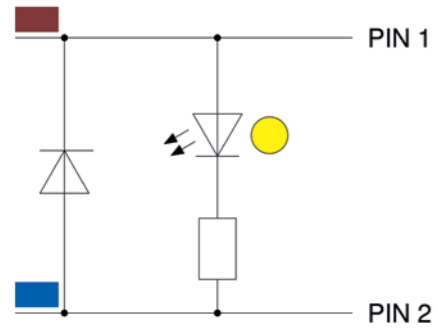
Varistors are preferably used on supply lines and inductive loads.

TECHNICAL INFORMATION

Protection circuits 2- and 3-pos. DT connectors

Protective circuit with freewheeling diode:

With freewheeling diode:



In contrast to the aforementioned circuits, the protective circuit with freewheeling diode is unipolar and may be operated with DC voltage only with defined polarity. It serves to protect against negative voltage peaks which may occur when switching off inductive loads. Positive overvoltages, however, are not limited by this circuit.

Summary

Due to the bi-directional design of suppressor diode and varistor, these protection circuits allow for protection against negative as well as against positive overvoltage. However, with these designs, the reverse voltage is higher than the forward voltage of a freewheeling diode.

The forward voltage of a freewheeling diode is below the operating voltage of the system. The overvoltage pulse may be limited with a freewheeling diode to values below 1 VDC, which is not possible with the bi-directional behavior of suppressor diode and varistor.

Typical applications:

| Circuit design | |
|---|--|
| Suppressor diode / Varistor | Freewheeling diode |
| <ul style="list-style-type: none">• Drive technology• Engine management• Safety equipment such as airbags and stability control• Entertainment and comfort accessories• Controllers | <ul style="list-style-type: none">• Directly on• Relays• Solenoid valves |

TECHNICAL INFORMATION
Cable qualities

Cable unshielded
DT/Superseal/CPC Series

TPU, halogenfree, for drag chain applications

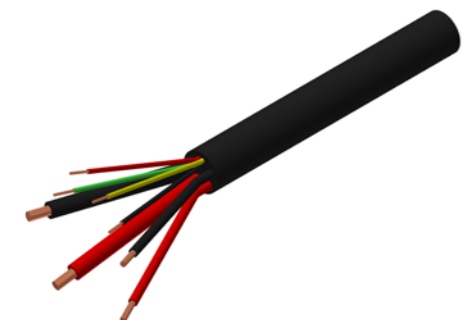
K1 = Li9Y11Y, 300 V, halogenfree, for drag chain applications



| | Wire cross section [mm²] | Number of wires | Color cable jacket | Certification | Wire colors | Datasheet No. | |
|--|--------------------------|-----------------|--------------------|---------------|---|---------------------|---------------------|
| | 0.75 | 2 | black | cULus 20549 | BN - BU | 781- K1 7200 | |
| | | 3 | | cULus 20549 | BN - BU - GN/YE | 781- K1 7300 | |
| | | | | cULus 20549 | BN - BU - BK | 781- K1 730G | |
| | | 4 | | cULus 20549 | BN - BU - BK - GN/YE | 781- K1 7400 | |
| | | | | cULus 20549 | BN - WH - BU - BK | 781- K1 740G | |
| | | 5 | | cULus 20549 | BN - WH - BU - BK - GN/YE | 781- K1 7500 | |
| | | | | cULus 20549 | BN - WH - BU - BK - GY | 781- K1 750G | |
| | | 6 | | cULus 20549 | WH - BN - GN - YE - GY - PK | 781- K1 7600 | |
| | | 8 | | cULus 20549 | WH - BN - GN - YE - GY - PK - BL - RD | 781- K1 7800 | |
| | | 12 | | cULus 20549 | BN - BU - WH - GN - PK - YE - BK - GY - RD - VT - GY/PK - RD/BU | 781- K1 7120 | |
| | | 1,5 | | 3 | cULus 20549 | BN - BU - GN/YE | 781- K1 8300 |
| | | | | | cULus 20549 | BN - BU - BK | 781- K1 830G |

Hybrid cable
ISOBUS

TPU



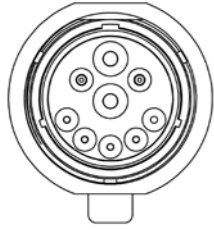
| | | | | | | |
|--|---------------------------|-------|-------|-----|---------------------------------------|--------------------------|
| | 4x0.50 + 2x2.50 + 2x6.00 | 4x2x2 | black | yes | BK - YE - GN - RD - BK - RD - BK - RD | ISO 600P: 781-BS0097 |
| | 4x0.50 + 2x2.50 + 2x10.00 | 4x2x2 | | | BK - YE - GN - RD - BK - RD - BK - RD | ISO 1000P: 781-BS0177 |
| | 4x0.50 + 2x2.50 + 2x16.00 | 4x2x2 | | | BK - YE - GN - RD - BK - RD - BK - RD | ISO 1600P: 781-BS0119 |

TECHNICAL INFORMATION

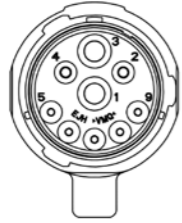
Overview pin assignment

ISOBUS - Connectors overmoulded, female/male

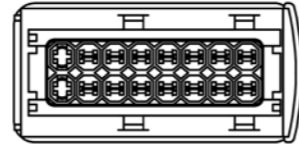
JPT - Connector



Female
9-pos.

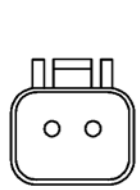


Male
9-pos.

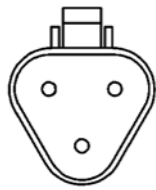


Female
16-pos.

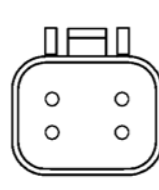
DT-Series 06 (Housing for socket contacts)



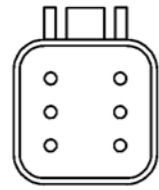
2-pos.



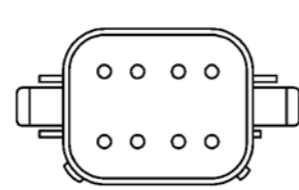
3-pos.



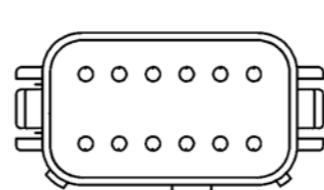
4-pos.



6-pos.



8-pos.
A-coded



12-pos.
A-coded

DT-Series 04 (Housing for plug contacts)



2-pos.



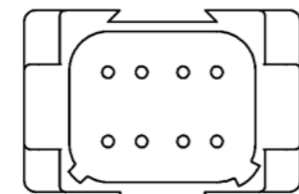
3-pos.



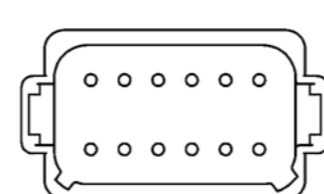
4-pos.



6-pos.



8-pos.
A-coded

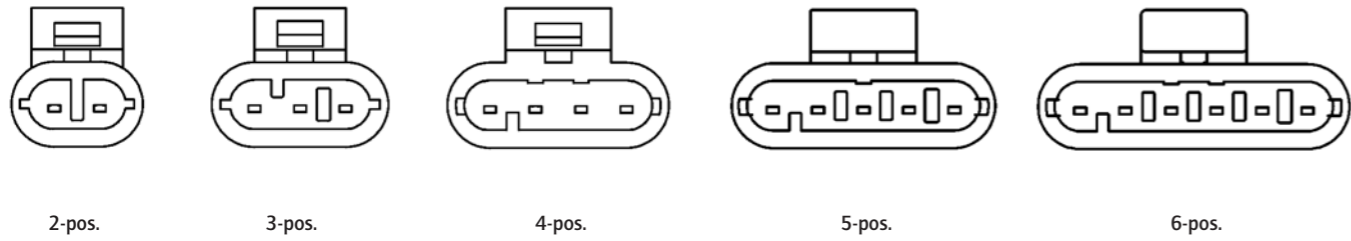


12-pos.
A-coded

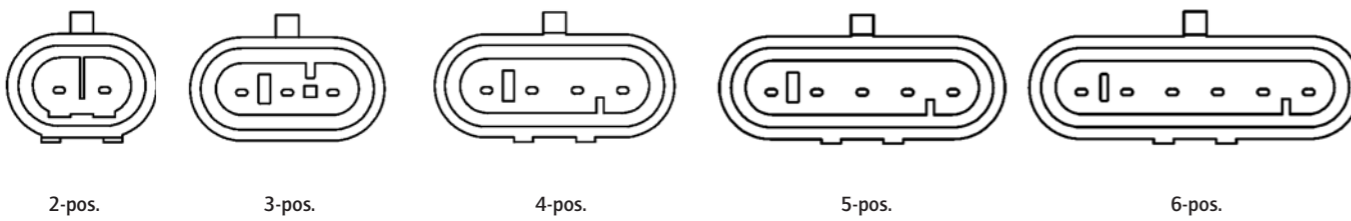
TECNICAL INFORMATION

Overview pin assignment

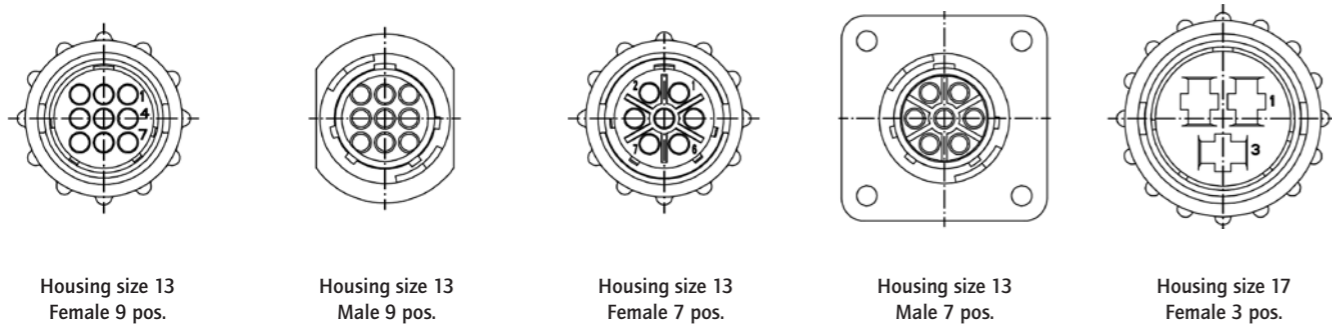
Superseal-series VSS1.5 (Housing for socket contacts)



Superseal-series VSS1.5 (Housing for plug contacts)



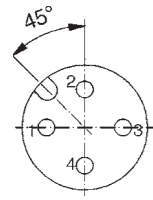
CPC-Series housing size 13 + 17



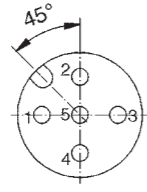
TECNICAL INFORMATION

Overview pin assignment

12x1 connectors overmoulded, female

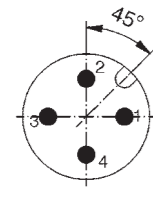


Female connector
4-pos.
A-cod.

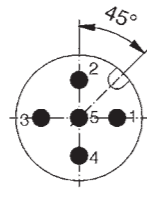


Female connector
5-pos.
A-cod.

12x1 connectors overmoulded, male



Male connector
4-pos.
A-cod.



Male connector
5-pos.
A-cod.



TECHNICAL INFORMATION

Protection classes

Norm IEC 60529

IP = International Protection

Code number 1 =
Protection against
contact and foreign bodies










Code number 2 =
Protection against water

IP 67

For safety reasons, connectors have to be protected against external influences like dust, foreign objects, direct contact, moisture and water. For industrial connectors, this protection is provided by their housings with their latching devices and sealed cable entries. The protection classes are also called IP Codes. The abbreviation IP stands for "ingress protection". Standard IEC 60529 specifies and divides the degree of protection into several classes.

The protection classes refer to protection against contact and ingress of solid foreign objects and dust (indicated by the first code digit of the IP Code) as well as against damaging ingress of water (indicated by the second code digit of the IP Code)

PROTECTION CLASS OVERVIEW

| First code digit | Protection against ingress of foreign objects Protection against contact | Second code digit | Protection against water | Examples |
|------------------|---|-------------------|--|---|
| 0 | Not protected | 0 | Not protected | |
| 1 | Protection against ingress of solid foreign objects with diameters > than 50 mm Protected against access with the back of the hand | 1 | Protection against vertically dripping water |  |
| 2 | Protection against ingress of solid foreign objects with diameters > than 12.5 mm Protected against access with a finger | 2 | Protection against dripping water with 15° inclination |  |
| 3 | Protection against ingress of solid foreign objects with diameters > than 2.5 mm Protected against access with a tool | 3 | Protection against spray water inclined up to 60° |  |
| 4 | Protection against ingress of solid foreign objects with diameters > than 1 mm Protected against access with a wire | 4 | Protection against splashing water |  |
| 5 | Protected against dust in harmful quantities Complete protection against contact | 5 | Protection against jet water |  |
| 6 | Dust-proof Complete protection against contact | 6 | Protection against powerful jets of water |  |
| | | 7 | Protection against temporary immersion (max. water depth 1 m) |  |
| | | 8 | Protection against constant immersion beyond 1 m An additionally indicated number stands for the maximum immersion depth in meters. |  |
| | | 9K | Protection against very strong jets of water, e.g. from high-pressure steam jet cleaners for vehicles. |  |

TECHNICAL INFORMATION

Electrotechnical information

Voltage grading of connectors (insulation coordination)

Clearances and creepage distances are the base of voltage grading of connectors.

The following standard apply for this:

IEC 60664-1

Insulation coordination for equipment within low-voltage systems

Insulation coordination comprises the selection of the electrical insulation performances of an equipment (e.g. connector), taking into account the expected use and its environment.

Explanation of some terms:

– Rated voltage

The value of voltage assigned by the manufacturer to the connector and to which operation and performance characteristics are referred.

– Rated impulse voltage

The value of an impulse withstand voltage assigned by the manufacturer to the connector characterising the specified withstand capability of its insulation against transient overvoltages.

– Clearance

The shortest distance in air between two conductive parts.

– Creepage distance

The shortest distance along the surface of the insulating material between two conductive parts.

– Pollution degree

The expected pollution around the equipment (e.g. connector) was established in the standard in four degrees:

Pollution degree 1

No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.

Examples: The inside of electrical measuring instruments, electronic measuring devices.

Pollution degree 2

Only non-conductive pollution occurs. Except that occasionally a temporary conductivity caused by condensation is to be expected.

Examples: Household appliances, installation material, lamps, power supplies of office equipment.

Pollution degree 3

Conductive pollution occurs or dry non-conductive pollution occurs which becomes conductive due to condensation which is to be expected.

Examples: Electrical equipment of machine tools and processing machines, low voltage switches at machine tools.

Pollution degree 4

The pollution generates persistent conductivity caused by conductive dust or by rain or snow.

Examples: Equipment on wagon roofs and beneath wagons at electrical locomotives, rail cars, trolley busses. Equipment at electrical locomotives underground.

Additional remarks:

If connectors being defined for pollution degree 1 and overvoltage categorie 1 are applied for other conditions (higher pollution degree and higher overvoltage category), voltage levels reduce correspondingly. But the connectors can be used without any problems at reduced maximum voltages.

It has to be noted that for a connector with a degree of protection of at least IP54 the parts inside the enclosure may be dimensioned for a lower pollution degree. This also applies to mated connectors whose enclosure is ensured through the connector housing and which may only be disengaged for test and maintenance purposes.

TECHNICAL INFORMATION

Electrotechnical information

Voltage grading of connectors (insulation coordination)

– Overvoltage categories

The standard has divided the possible overvoltages into four categories. The three categories which relate to connectors are shortly described below:

Overvoltage category I

Equipment (e.g. connectors) intended for the use in applications or parts of installations in which no overvoltage can occur.

Examples are low voltage equipments.

Overvoltage category II

Equipment (e.g. connectors) intended for the use in installations or parts of it, in which lightning overvoltages do not need to be considered, however switching overvoltages generated by the equipment. Examples are household appliances.

Overvoltage category III

Equipment (e.g. connectors) intended for the use in installations or parts of it in which lightning overvoltages do not need to be considered, however switching overvoltages generated by the equipment, and for cases where the reliability and the availability of the equipment (e.g. connectors) or its dependent circuits are subject to special requirements. Examples are protecting means, switches and sockets.

–Material groups

For the dimensioning of the creepage distance, the tracking formation of the insulating material used by the manufacturer has to be considered. The materials are separated into three groups according to their CTI values (Comparative Tracking Index):

Material group I $600 \leq \text{CTI}$

Material group II $400 \leq \text{CTI} < 600$

Material group III $175 \leq \text{CTI} < 400$

TECHNICAL INFORMATION

Electrotechnical information

American Wire Gauges

The American Wire Gauge AWG is also found in various areas of the automation industry use .

The following table is used for the conversion of AWG Supports at in mm² .

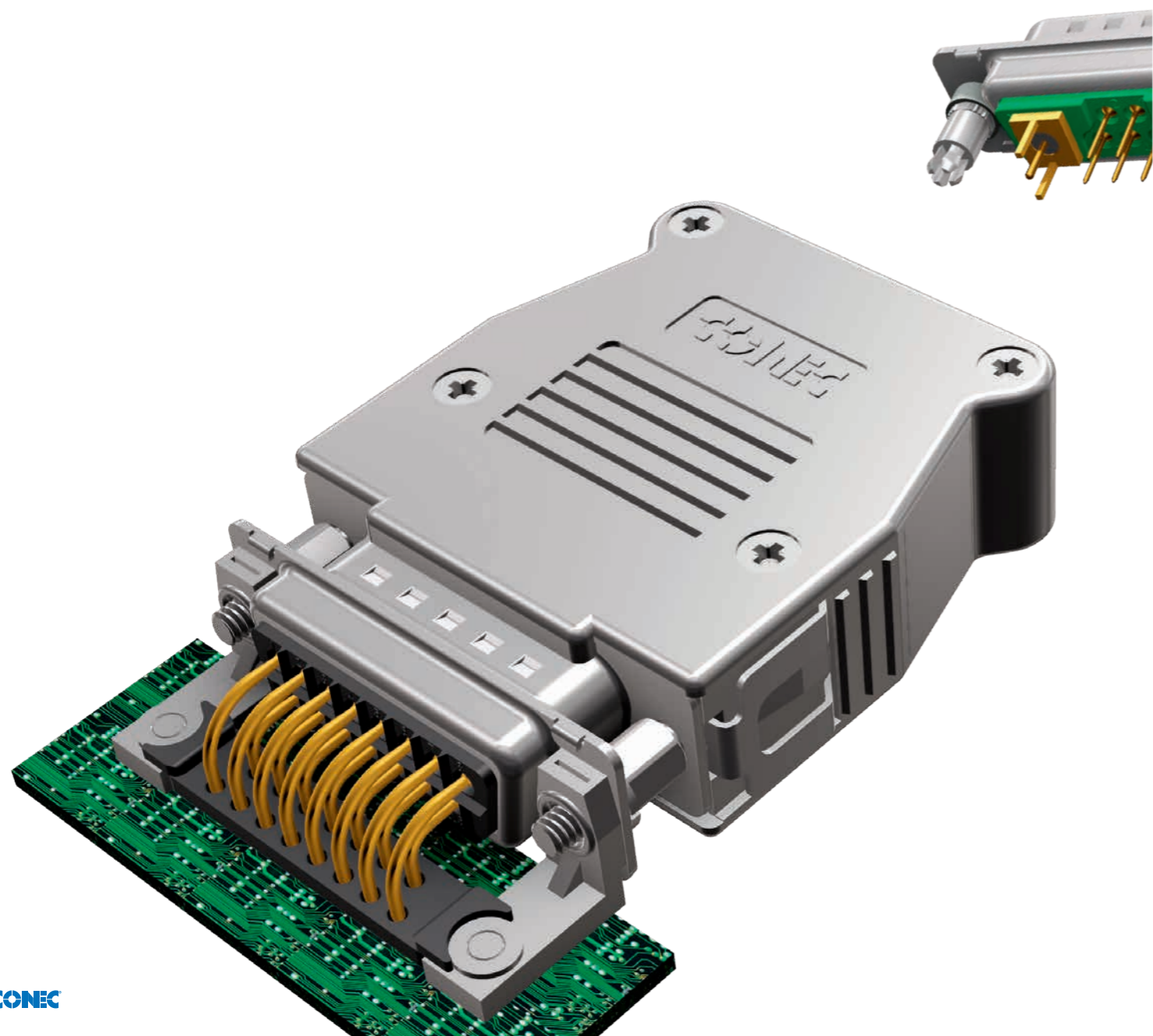
| AWG | Wire composition [mm] | Wire-Ø [mm] | Wire cross section [mm ²] |
|-----|-----------------------|-------------|---------------------------------------|
| 30 | 1 x 0.25 | 0.25 | 0.05 |
| | 7 x 0.10 | 0.36 | 0.06 |
| 28 | 1 x 0.32 | 0.32 | 0.08 |
| | 7 x 0.13 | 0.38 | 0.09 |
| 26 | 1 x 0.40 | 0.4 | 0.13 |
| | 7 x 0.16 | 0.48 | 0.14 |
| | 19 x 0.10 | 0.51 | 0.15 |
| 24 | 1 x 0.51 | 0.51 | 0.21 |
| | 7 x 0.20 | 0.61 | 0.22 |
| | 19 x 0.13 | 0.64 | 0.25 |
| 22 | 1 x 0.51 | 0.64 | 0.33 |
| | 7 x 0.20 | 0.76 | 0.34 |
| | 19 x 0.13 | 0.81 | 0.38 |
| 20 | 1 x 0.81 | 0.81 | 0.52 |
| | 7 x 0.32 | 0.97 | 0.56 |
| | 19 x 0.20 | 1.02 | 0.6 |
| 18 | 1 x 1.02 | 1.02 | 0.82 |
| | 19 x 0.25 | 1.27 | 0.93 |
| 16 | 19 x 0.29 | 1.44 | 1.25 |
| 14 | 19 x 0.36 | 1.8 | 1.93 |
| 12 | 19 x 0.46 | 2.29 | 3.16 |
| 10 | 19 x 0.40 | 3.1 | 4.65 |

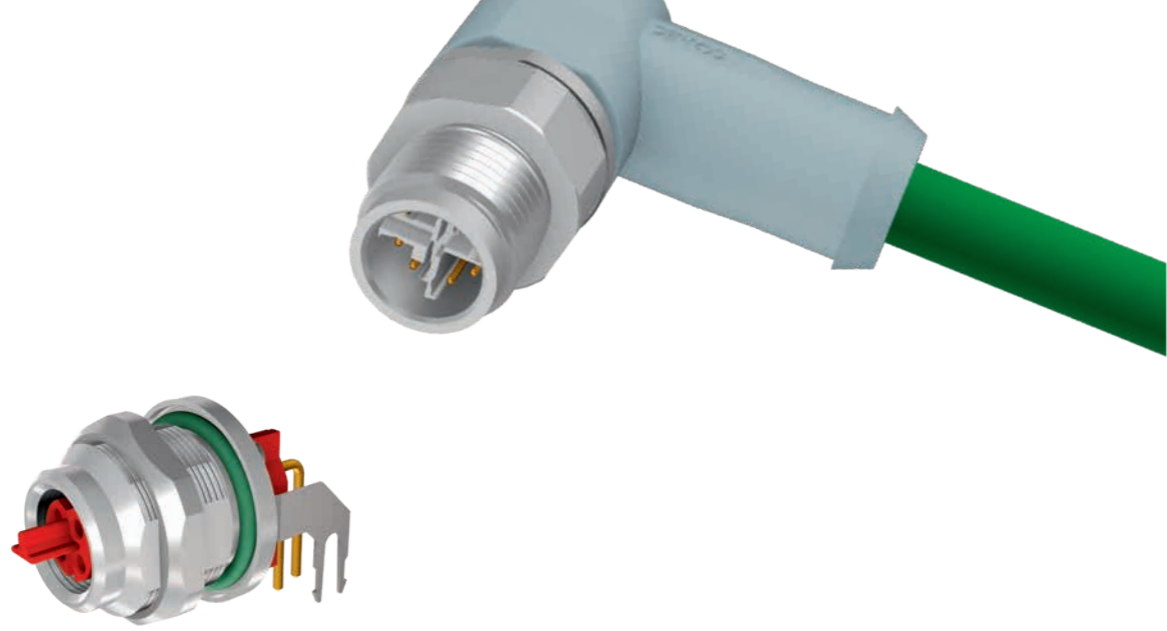
Note: Due to different Core structure at the same AWG creates a different.

Construction and dimension for standard copper cable according IEC 60228

| Wire cross section [mm ²] | Wire composition [mm] | Wire-Ø [mm] |
|---------------------------------------|-----------------------|-------------|
| 0.09 | 12 x 0.10 | 0.5 |
| 0.14 | 18 x 0.10 | 0.5 |
| 0.25 | 14 x 0.16 | 0.7 |
| | 32 x 0.10 | 0.7 |
| 0.34 | 19 x 0.16 | 0.8 |
| | 42 x 0.10 | 0.9 |
| 0.5 | 7 x 0.30 | 1 |
| | 16 x 0.21 | 1.1 |
| | 28 x 0.16 | 1.1 |
| 0.75 | 7 x 0.37 | 1.2 |
| | 24 x 0.21 | 1.2 |
| | 42 x 0.16 | 1.3 |
| 1.0 | 7 x 0.43 | 1.4 |
| | 32 x 0.21 | 1.4 |
| | 56 x 0.16 | 1.5 |
| 1.5 | 7 x 0.52 | 1.6 |
| | 30 x 0.26 | 1.7 |
| | 84 x 0.16 | 1.8 |
| 2.5 | 7 x 0.67 | 2.2 |
| | 50 x 0.26 | 2.3 |
| | 140 x 0.16 | 2.3 |
| 4.0 | 7 x 0.85 | 2.7 |
| | 56 x 0.31 | 2.8 |
| | 224 x 0.16 | 2.9 |

SECTION 8
ADDITIONAL PRODUCT CATEGORIES __





ADDITIONAL CONEC PRODUCT CATEGORIES

CONEC Hybrid connectors



Details

- Size: B12, B17, B23, B40
- Coding: 1, 2, 3, 4, 5, 6
- Number of poles power: 2, 2+PE, 3+PE, 4+PE, 3+PE+2
- Number of poles data: 4 (transmission according IEC11801 Cat 5)
- Configuration: Connector axial overmoulded, Connector axial field attachable, sockets axial, sockets angled rotatable (B23)
- Bayonet locking
- Degree of protection: IP67

Benefits

- Space-saving by transmitting data and power with one connector
- Quick and secure connection by bayonet locking
- Compact and robust design
- Adjustable direction of outlet (B23 receptacle angled)

Circular connectors overmoulded (signal transmission)



Details

- Size: M8x1, M12x1, 7/8", Rund24
- Coding: A, B, C
- Number of poles: 3, 4, 5, 6, 8, 12, 2+PE, 3+PE, 4+PE
- Configuration: axial or angled, shielded or unshielded
- Optional with LED
- Termination: screw-, snap-, screw-/snap-termination
- Degree of protection: IP67

Benefits

- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Application-related cable qualities

ADDITIONAL CONEC PRODUCT CATEGORIES

Circular connectors field attachable (signal transmission)



Details

- Size: M8x1, M12x1, 7/8", Rund24
- Coding: A
- Number of poles: 3, 4, 5, 8, 2+PE, 3+PE, 4+PE, 6+PE
- Configuration: axial or angled, shielded or unshielded
- Termination: solder-, clamp-, screw-, crimp termination
- Degree of protection: IP67

Benefits

- Mating can be controlled with torque wrench
- Easy field attachable without special tools
- M12x1 cable cross section 1.5 mm² (Crimp max. 1.0 mm²)
- Vibration proof screw lock

Sockets (signal transmission)



Details

- Size: M8x1, M12x1, 7/8"
- Coding: A, B
- Number of poles: 3, 4, 5, 6, 8, 12, 2+PE, 4+PE
- Male socket, female socket
- Configuration: axial or angled
- Field attachable crimp version
- Assembly: Protection cap
- Front and back panel mounting
- Degree of protection: IP67

Benefits

- Colored contact insulators to avoid wrong plugging
- High number of poles with minimum space requirements
- Direct circuit board mounting
- Protection of unused interfaces



ADDITIONAL CONEC PRODUCT CATEGORIES

Sockets SMT/THR (signal transmission)



Details

- Size: M8x1 SMT/THR, M12x1 SMT
- Coding: A, B
- Number of poles: 3, 4, 5, 8
- Male socket, female socket
- Configuration: axial, shielded or unshielded
- Front and back panel mounting
- Degree of protection: IP67

Benefits

- Automated assembly (SMT)
- High number of poles with minimum space requirements
- Low forces on the board
- Low contact resistance on the shielding
- Large tolerance compensation between board and housing

Panel plugs



Details

- Size: M8x1, M12x1
- Coding: A
- Number of poles: 3, 4, 5, 8
- With LED preparation
- Configuration: axial
- Housing configuration: Plastic, metal, metal/plastic transparent
- Termination: solder-, print termination
- Degree of protection: IP67

Benefits

- Easy installation in housing by pushing in
- Low installation height
- Various connection possibilities

ADDITIONAL CONEC PRODUCT CATEGORIES

Power connectors



Details

- Size: M12x1, 7/8", Rund24
- Coding: L, S, T
- Number of poles: 3, 4, 2+PE, 3+PE, 4+PE, 4+FE, 6+PE
- Configuration: axial or angled
- Degree of protection: IP67

Benefits

- Transmission of high currents
- Mating can be controlled with torque wrench
- Defined tightening torque
- Polarity reversal prevented with coded insulators
- Robust design with minimum space requirements

High Temperature/Food & Beverage connectors



Details

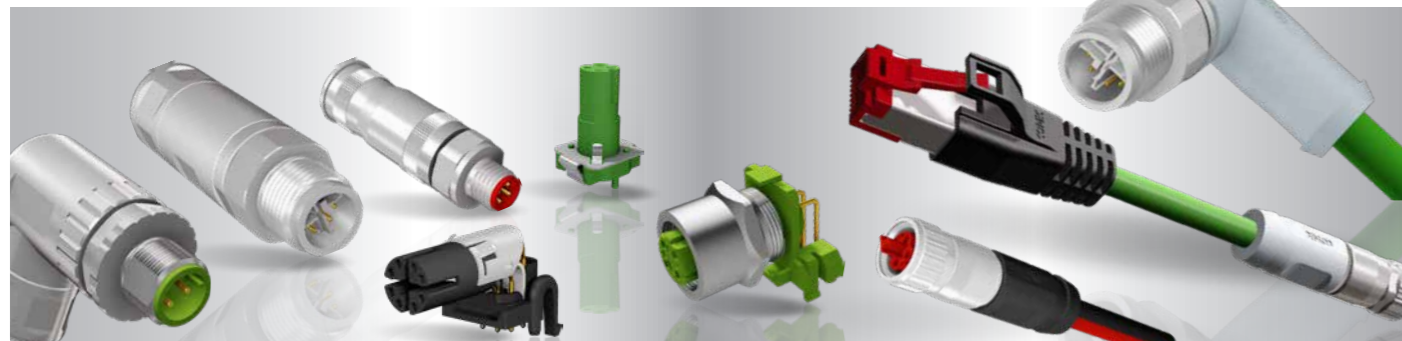
- Size: M8x1, M12x1
- Coding: A
- Number of poles: 3, 4, 5
- Female connector, male connector
- Optional with LED
- Temperature-resistant up to 125 °C (HT)
- Degree of protection: IP65 (HT), IP67/IP69K (F&B)

Benefits

- Resistance to commercial aggressive cleaning agents
- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Use in constantly high ambient temperatures

ADDITIONAL CONEC PRODUCT CATEGORIES

Connectors for BUS-Systems



Details

- Size: M8x1, M12x1, 7/8", RJ45
- Coding: B, D, P, X
- Number of poles: 4, 8
- Profibus DP
- DeviceNet
- Industrial Ethernet 100 MHz
- EtherCAT P
- 10 Gigabit Ethernet
- Configuration: axial or angled

Benefits

- Robust design with minimum space requirements
- Vibration proof screw lock
- SMT versions for automatic placement
- High data transmission up to 10 Gbit/s (X-cod.)
- Flexible cabling in the field by field attachable variants

Junction systems



Details

- Size: M8x1, M12x1
- Number of poles: 3, 4, 5, 8, 4+PE
- 1:1 wiring
- Signal distribution
- Assembly: retaining clip, protection caps
- Degree of protection: IP67

Benefits

- Reduction of installation costs
- Space saving design
- Robust design with minimum space requirements
- Signals and power are transmitted by standardized plug systems
- Back-to-back assembly with retaining clip

ADDITIONAL CONEC PRODUCT CATEGORIES

IP67 Power Bayonet



Details

- No. of poles: 2, 2+PE
- Receptacle male and female
- Cable connector male and female
- Degree of protection: IP67

Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Cable to cable connection available
- High current carrying capability

IP67 Mini USB, USB 2.0, USB 3.0 connectors



Details

- Type: USB 3.0 Type A
- Type: USB 2.0 Type A, Mini USB Type A
- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet, M28
- Termination: soldering, PCB
- Front- and back panel mounting
- Adapters
- Degree of protection: IP67
- Degree of protection: IP20 (patch cord)

Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Light-weight versions ideal for portable devices

ADDITIONAL CONEC PRODUCT CATEGORIES

IP67 RJ45 Industrial Ethernet connectors



Details

- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet, M28
- Termination: soldering, IDC, screw
- Front- and back panel mounting
- UTP Cat 5e, STP Cat 5e, S/STP Cat 6A
- Degree of protection: IP67
- Degree of protection: IP20 (patch cord)

Benefits

- Use in harsh environments
- Easy and secure locking by bayonet lock
- Front- and back panel mounting
- Light-weight versions
- Colored interface encoding available
- Cat. 6 A variants up to 10 GBit /s

IP67 Fiber Optic LC Duplex



Details

- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet
- Single Mode, Multi Mode, APC Single Mode
- Front- and back panel mounting
- Degree of protection: IP67

Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Extended temperature range
- Interference-free safe data transmission
- Cost efficiency by integrated IP67 protection

ADDITIONAL CONEC PRODUCT CATEGORIES

D-SUB connectors standard/high density/combination



Details

- Shell: steel tin plated, brass tin plated, stainless steel
- Termination: solder pin straight/angled, press-fit straight, solder cup, wire wrap, crimp
- Quality class: up to quality class 1

Benefits

- One interface for power, RF and control signals
- Space saving
- Cost saving – all in one connectors
- Low magnetic versions possible
- Customer-specific solutions possible
- Quick and easy locking and unlocking (SnapLock)

D-SUB filter standard/high density/combination



Details

- Shell: steel tin plated, brass tin plated
- Termination: solder pin, solder cup
- Filter type: C-Filter, LC-Filter, Pi-Filter
- High DWV

Benefits

- Filtering directly at interface
- Can be used without PCB Redesign
- Filter-adaptor for retrofitting existing systems
- Up to 3-step low-pass filters
- Selective filtering
- Mixed capacitance
- Low magnetic versions
- Space saving on PCB

ADDITIONAL CONEC PRODUCT CATEGORIES

D-SUB hoods



Details

- Shell size: 1-5
- Shell: plastic, plastic metallized, metal
- Cable entry: straight, lateral, multiple
- CONEC SnapLock version

Benefits

- Large space for combination D-SUB
- Screw latching or slide locking
- Quick and easy locking (CONEC SnapLock)
- Touch protection of termination side
- For round and flat ribbon cables

IP67 D-SUB connectors standard/ high density/combination



Details

- Shell: brass tin plated, stainless steel
- One-piece shell (Solid Body): zinc die-cast
- One-piece shell (CONEC SlimCon): zinc die-cast, small installation space requirements
- Front- and back panel mounting
- Frame design: zinc die-cast nickel plated
- Termination: solder pin straight/angled, solder cup
- Degree of protection: IP67

Benefits

- Use in harsh environments
- Precision machined contacts
- Suitable for post overmolding (solder cup CONEC SlimCon)
- Flexible mounting options

ADDITIONAL CONEC PRODUCT CATEGORIES

IP67 D-SUB filter standard/high density



Details

- Shell: brass tin plated
- Termination: solder pin, solder cup
- Filter type: C-Filter up to 1300 pF (D-SUB) up to 1000 pF (HD-SUB)
- Degree of protection: IP67
- CONEC SlimCon variants for small space requirements

Benefits

- Filtering directly at interface
- Can be used without PCB redesign
- Use in harsh environments
- Selective filtering
- Mixed capacitance
- Low magnetic versions
- Space saving on PCB
- EMC gasket for SlimCon variants available

IP67 D-SUB hoods



Details

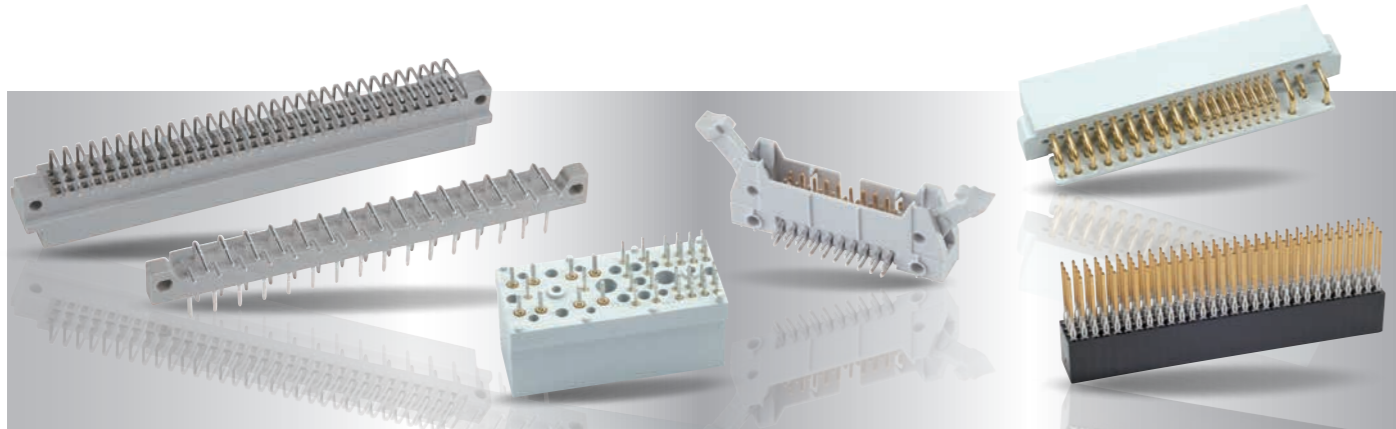
- Shell size: 1-5
- Shell: plastic, plastic metallized
- Degree of protection: IP67

Benefits

- Compact design
- Integrated cable gland
- Large space for combination D-SUB
- With shield connection
- Assembly without special tools

ADDITIONAL CONEC PRODUCT CATEGORIES

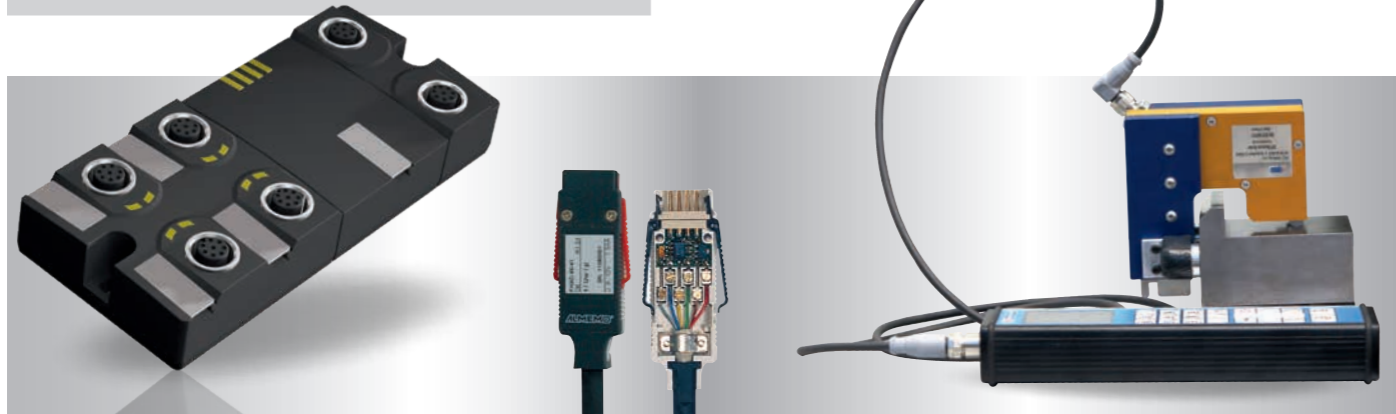
PCB connectors



Overview

- DIN EN 60603-2
- DIN 41617
- AdvancedTCA
- Flat cable connector
- CompactPCI
- PC104/PC104Plus

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- Prototypes and small series production batches
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