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CONNECTORS

AGRICULTURAL & CONSTRUCTION MACHINES





TECHNOLOGY IN CONNECTORS™

Industry 4.0, the current trend of increasing automation and data exchange in manufacturing environments, has resulted in new demands on electronic connectors.

More data, being transferred at faster speeds, and the need for high reliability in sometimes harsh environments, has forced the development of new connectors.

CONEC's nearly 40 years of experience positions us to be a world leader in these interconnect products.

CONEC is a global player with its own subsidiaries and/or production facilities in Canada, United States, China, Czech Republic, Poland, France and UK.

At our headquarters in Lippstadt, CONEC has a large Research and Development Department, its own tooling shop, a CNC precision turnery and a plastic injection moulding plant.

CONEC Germany, Lippstadt




CONEC Canada, Brampton



CONEC USA, Garner





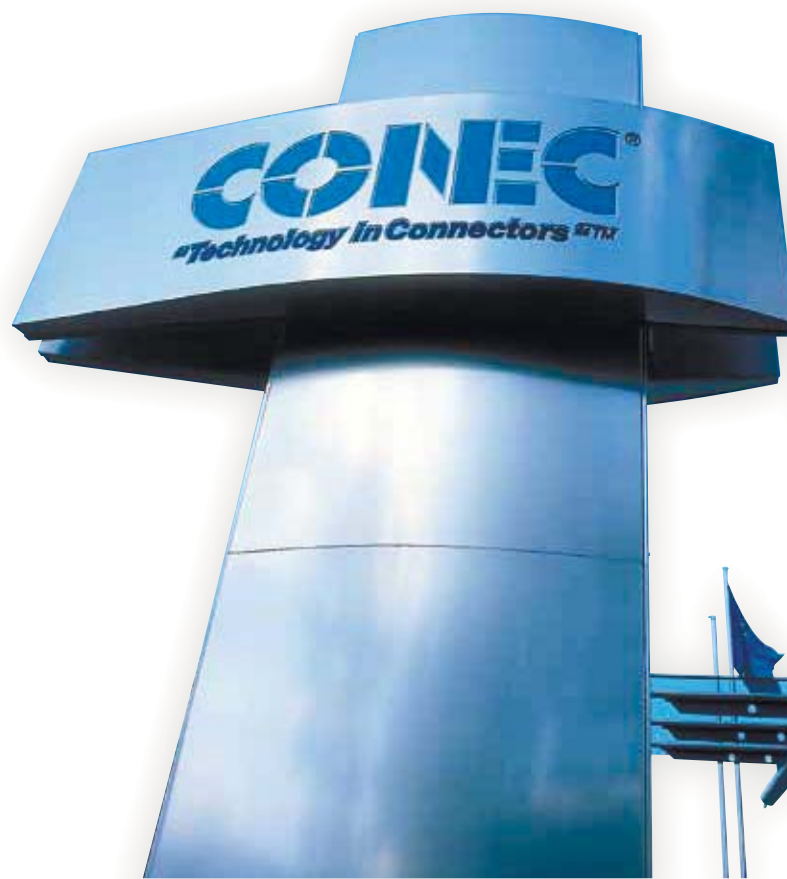
In addition to a variety of connectors for all current standards, our particular strength is the development of customized solutions.

CONEC products are used in automation, telecommunications and energy technology, mechanical engineering, agriculture and medical technology, transportation and aviation industry.

Our synchronous production system „CONEC active“ is based on the principles of lean production and is the key to our sustained success.

In particular, we consider one of our strengths to be in the field of integrated moulding of components and assemblies.

To us, absolute customer orientation means: To deliver the right product at the right time, in the right quantity and the right quality to the right place.



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SECTION 1

ISOBUS CONNECTORS





ISOBUS CONNECTORS

Nomenclature

HDP26 - 24 - 91 - S - L1 - W / 600P / 2m

Type

HDP26= Housing for socket contact
HDP24= Housing for plug contact
JPT = Housing JPT

Size

24 = HDP
= JPT

Number of poles

91 = HDP
16 = JPT

Type

S = Socket
P = Plug

Version (only HDP-series)

= without landing plate
L1 = with landing plate round
L2 = with landing plate with flats

Corrugated tube

= without corrugated tube
W = with corrugated tube

Leitung

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

Cable length

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

Connecting-cables

6m = 6 meter
9m = 9 meter
12m = 12 meter

ISOBUS CONNECTORS

Product specification

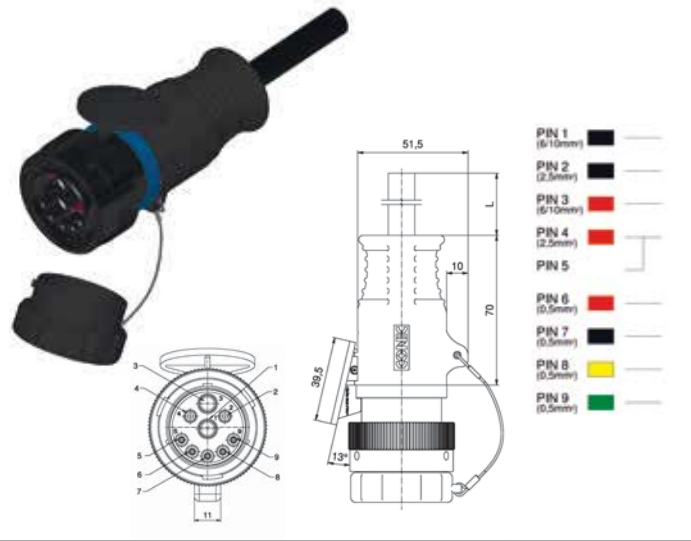
Basic material	
Contact	Copper alloy
Contact plating	HDP: Ni / JPT: Sn
Contact carrier	HDP: Thermoplast / JPT: PBT ASA GF30
Overmould	TPU, UL94 V-0, black
Landing plate (HDP)	PA6.6 UL94 V-0, black
Protective cover (HDP26)	PA6.6 UL94 V-0, black
Corrugated tube	PA6 UL94 HB, black
Sealing	Silicone
Technical Data	
Rated voltage	HDP: max. 32 V DC / JPT: max. 12 V DC
Current rating	max.: 600P altern. 1000P: 25 A at 40 °C [6 mm ²] altern. 35 A at 40 °C [10 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	HDP: -40 °C bis +85 °C / JPT: -40 °C bis +80 °C
Temperature range cable	Fixed installation: -40 °C at +80 °C Flexible installation: -20 °C at +85 °C
Terminal cross section	600P 1000P: 2 x 6 mm ² 2 x 10 mm ² + 2 x 2,5 mm ² + 2 x 2,5 mm ² + 4 x 0,5 mm ² 4 x 0,5 mm ²
Housing	HDP26 / HDP24 / JPT

ISOBUS CONNECTORS OVERMOULDED
Open end cable

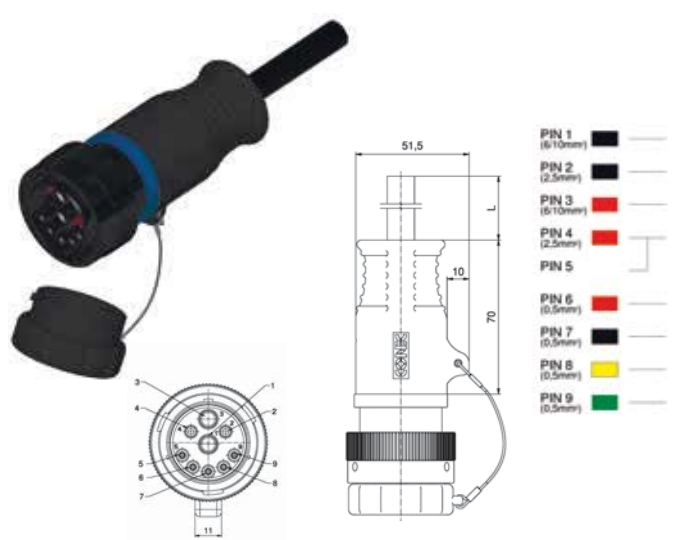
Female connector HDP

PUR hybrid cable

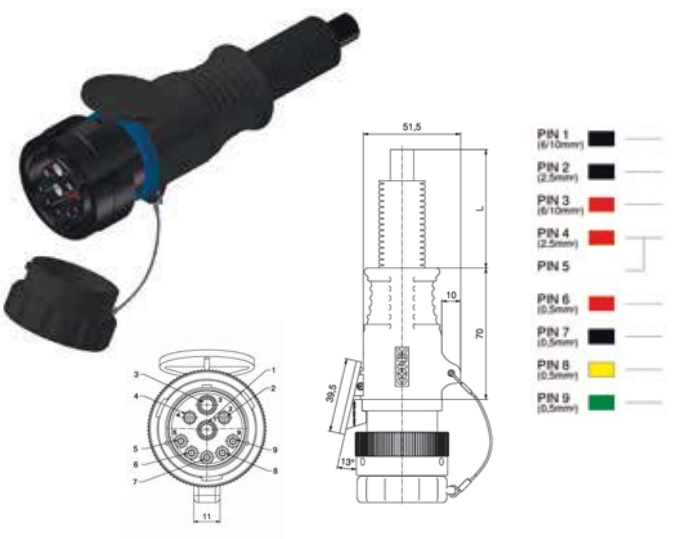
Contact assignment



PUR hybrid cable



PUR hybrid cable with corrugated tube



600P: 2 x 6 mm² [25 A] +
2 x 2.5 mm² [15 A] +
4 x 0.5 mm² [5 A]
1000P: 2 x 10 mm² [35 A] +
2 x 2.5 mm² [15 A] +
4 x 0.5 mm² [5 A]

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	✓	HDP26-24-91-S-L1/600P/2m	55-10001				
			5			HDP26-24-91-S-L1/600P/5m	55-10002				
			10			HDP26-24-91-S-L1/600P/10m	55-10003				
		1000P	2	2 x 10 2 x 2,5 4 x 0,5		HDP26-24-91-S-L1/1000P/2m	55-10007				
			5			HDP26-24-91-S-L1/1000P/5m	55-10008				
			10			HDP26-24-91-S-L1/1000P/10m	55-10009				
			9			max. 32 V DC	600P	2	✓	HDP26-24-91-S/600P/2m	55-10004
								5		HDP26-24-91-S/600P/5m	55-10005
								10		HDP26-24-91-S/600P/10m	55-10006
1000P	2	HDP26-24-91-S/1000P/2m		55-10010							
	5	HDP26-24-91-S/1000P/5m		55-10011							
	10	HDP26-24-91-S/1000P/10m		55-10012							
9	max. 32 V DC	600P	2	✓	HDP26-24-91-S-L1-W/600P/2m	55-10018					
			5		HDP26-24-91-S-L1-W/600P/5m	55-10021					
			10		HDP26-24-91-S-L1-W/600P/10m	55-10022					
		1000P	2		HDP26-24-91-S-L1-W/1000P/2m	55-10047					
			5		HDP26-24-91-S-L1-W/1000P/5m	55-10048					
			10		HDP26-24-91-S-L1-W/1000P/10m	55-10049					

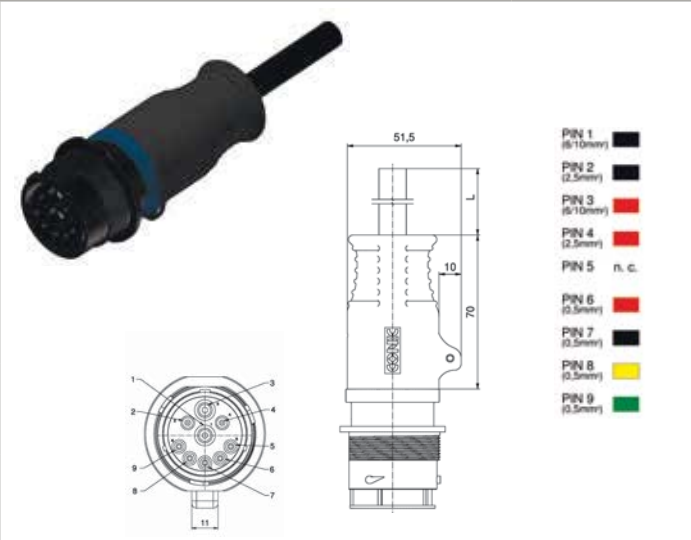
ISOBUS CONNECTORS OVERMOULDED

Open end cable

Male connector HDP

PUR hybrid cable

Contact assignment



PUR hybrid cable with corrugated tube



600P: 2 x 6 mm² [25 A] +
2 x 2.5 mm² [15 A] +
4 x 0.5 mm² [5 A]
1000P: 2 x 10 mm² [35 A] +
2 x 2.5 mm² [15 A] +
4 x 0.5 mm² [5 A]

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		HDP24-24-91-P/600P/2m	55-10023
			5			HDP24-24-91-P/600P/5m	55-10024
			10			HDP24-24-91-P/600P/10m	55-10025
		1000P	2	2 x 10 2 x 2,5 4 x 0,5		HDP24-24-91-P/1000P/2m	55-10026
			5			HDP24-24-91-P/1000P/5m	55-10027
			10			HDP24-24-91-P/1000P/10m	55-10028
			2			HDP24-24-91-P-W/600P/2m	55-10029
			5			HDP24-24-91-P-W/600P/5m	55-10030
			10			HDP24-24-91-P-W/600P/10m	55-10031
1000P	2	2 x 10 2 x 2,5 4 x 0,5		HDP24-24-91-P-W/1000P/2m	55-10032		
	5			HDP24-24-91-P-W/1000P/5m	55-10033		
	10			HDP24-24-91-P-W/1000P/10m	55-10034		

ISOBUS CONNECTORS OVERMOULDED
Connecting cable

Female connector HDP

PUR hybrid cable

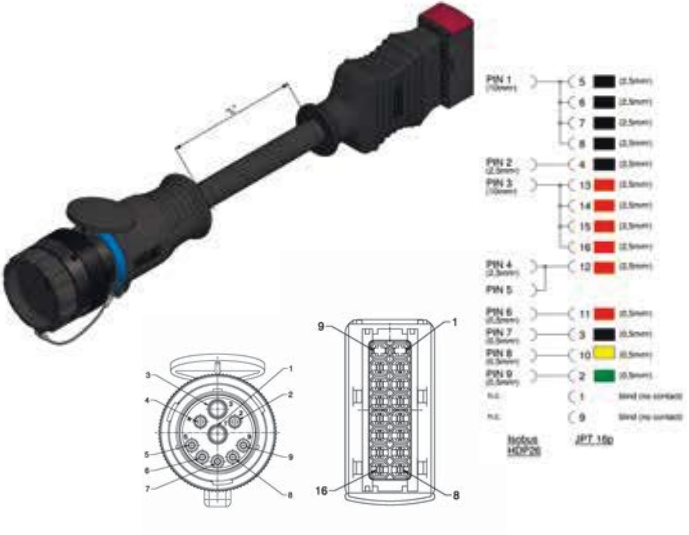
Contact assignment



PUR hybrid cable with corrugated tube

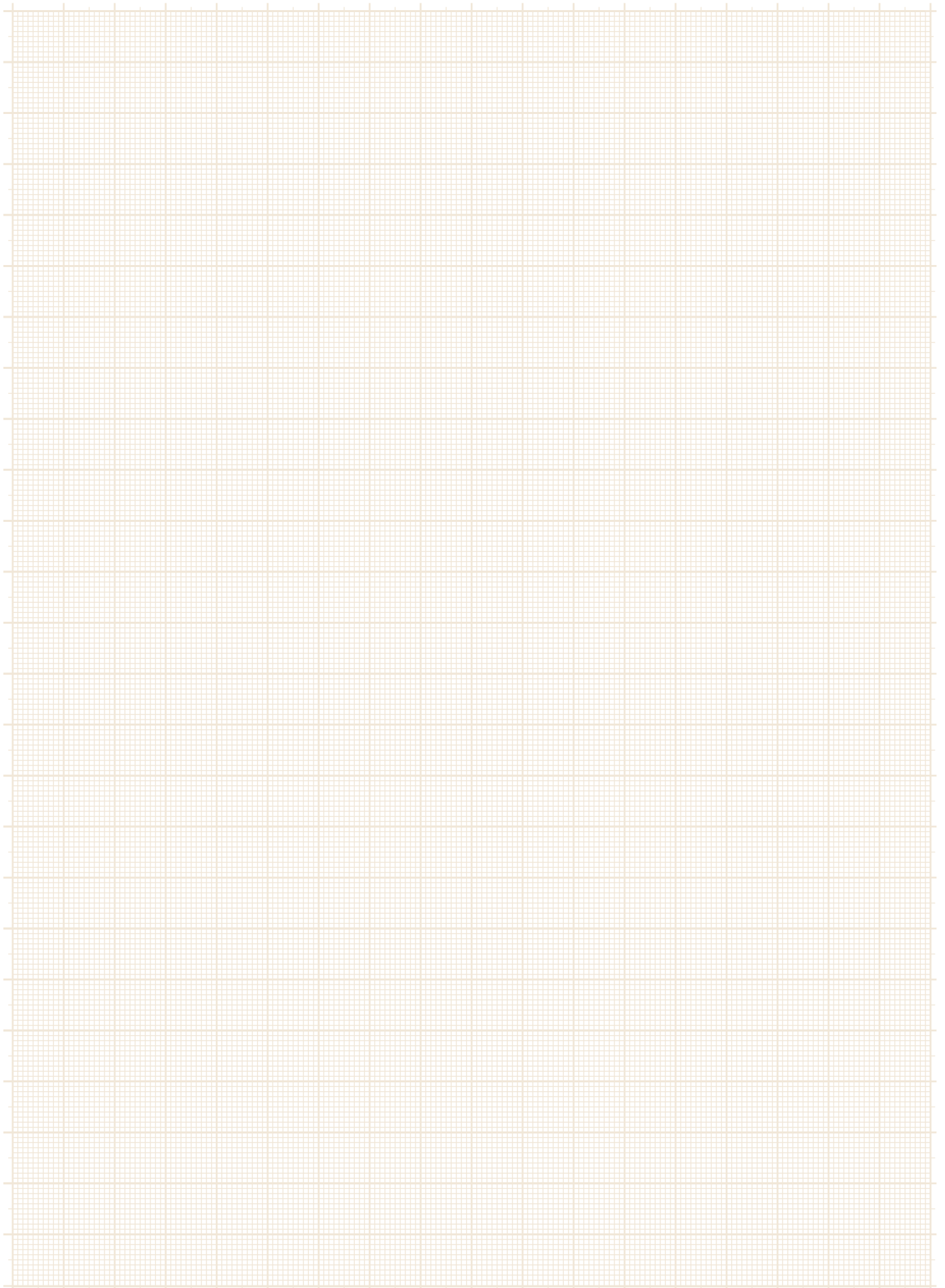


PUR hybrid cable



No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Wire cross section [mm²]	Landing plate	Description	Part No.
9	max. 32 V DC	600P	6	2 x 6 2 x 2,5 4 x 0,5	✓*	HDP26-24-91-S-L1-HDP24-24-91-P/600P/6m	55-10035
			9		✓*	HDP26-24-91-S-L1-HDP24-24-91-P/600P/9m	55-10036
			12		✓*	HDP26-24-91-S-L1-HDP24-24-91-P/600P/12m	55-10037
		1000P	6	2 x 10 2 x 2,5 4 x 0,5	✓*	HDP26-24-91-S-L1-HDP24-24-91-P/1000P/6m	55-10038
			9		✓*	HDP26-24-91-S-L1-HDP24-24-91-P/1000P/9m	55-10039
			12		✓*	HDP26-24-91-S-L1-HDP24-24-91-P/1000P/12m	55-10040
9	max. 32 V DC	600P	6	2 x 6 2 x 2,5 4 x 0,5	✓*	HDP26-24-91-S-L1-HDP24-24-91-P-W/600P/6m	55-10041
			9		✓*	HDP26-24-91-S-L1-HDP24-24-91-P-W/600P/9m	55-10042
			12		✓*	HDP26-24-91-S-L1-HDP24-24-91-P-W/600P/12m	55-10043
		1000P	6	2 x 10 2 x 2,5 4 x 0,5	✓*	HDP26-24-91-S-L1-HDP24-24-91-P-W/1000P/6m	55-10044
			9		✓*	HDP26-24-91-S-L1-HDP24-24-91-P-W/1000P/9m	55-10045
			12		✓*	HDP26-24-91-S-L1-HDP24-24-91-P-W/1000P/12m	55-10046
9 / 16	max. 12 V DC	1000P	6	2 x 10 2 x 2,5 4 x 0,5	✓*	HDP26-24-91-S-L1-JPT-16-S/1000P/6m	55-10051
			9		✓*	HDP26-24-91-S-L1-JPT-16-S/1000P/9m	55-10052
			12		✓*	HDP26-24-91-S-L1-JPT-16-S/1000P/12m	55-10053

600P: 2 x 6 mm² [25 A] +
2 x 2.5 mm² [15 A] +
4 x 0.5 mm² [5 A]
1000P: 2 x 10 mm² [35 A] +
2 x 2.5 mm² [15 A] +
4 x 0.5 mm² [5 A]
* Landing plate only female connector



SECTION 2

VALVE CONNECTORS DT-SERIES





VALVE CONNECTORS DT-SERIES

Nomenclature

DT06 - 2 S L - A / K1 / 0.75 / 2m

Type

DT06 = Housing for socket contacts
DT04 = Housing for plug contacts

No of pos.

2 = 2-pos.
3 = 3-pos.
4 = 4-pos.
6 = 6-pos.
8 = 8-pos. A-coding
12 = 12-pos. A-coding

Type

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

Cable style

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

Termination protection tube

= 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

Material cable

K1 = TPU, black, highflexible, halogenfree, UL
A1 = PVC single wire

Wire cross section

0.75 = 0.75 mm²
other types upon request

Cable length

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

VALVE CONNECTORS DT-SERIES

Product specification

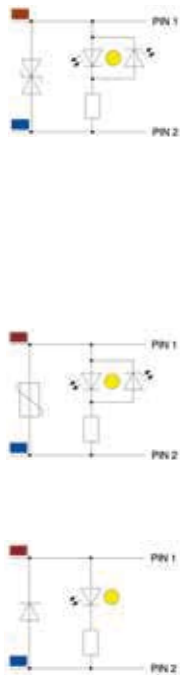
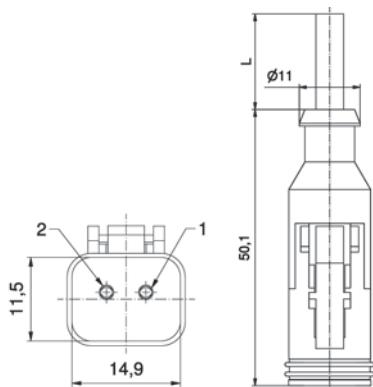
Basic material	
Contact	Copper alloy
Contact plating	Ni
Contact carrier	Thermoplast
Overmould	TPU, UL94, translucent
Sealing	Silicone
Technical Data	
Rated voltage	with LED and protection circuit [B]: max. 12 V AC/ 24 V DC with LED and protection circuit [E]: max. 24 V AC/30 V DC with LED and protection 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 +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	Deutsch DT06/DT04
Protection circuit	Suppressor diode + 2x LED yellow Varistor + 2x LED yellow Freewheeling diode + LED yellow

VALVE CONNECTORS
DT-Series

DT06, 2-pos.
Socket contacts

LED-protection circuit

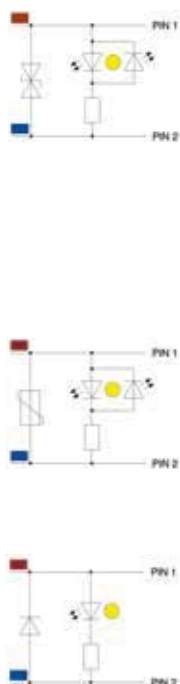
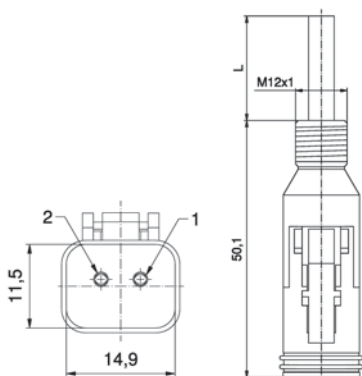
Contact assignment



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	PUR	2 x 0,75	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	PUR	2 x 0,75	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	PUR	2 x 0,75	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= Suppressordiode + 2x LED yellow
 • E= Varistor + 2x LED yellow
 • F= Freewheeling Diode + LED yellow
 Technical information look at page 56 + 57

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	PUR	2 x 0,75	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	PUR	2 x 0,75	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	PUR	2 x 0,75	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

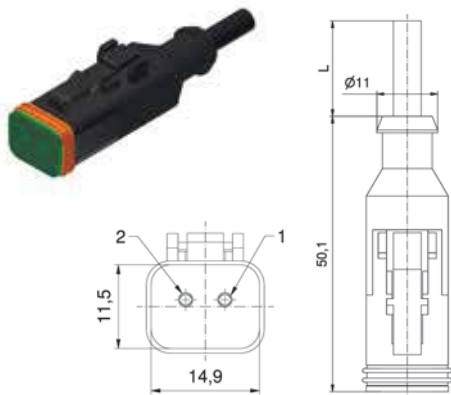
Without LED-protection circuit

Contact assignment

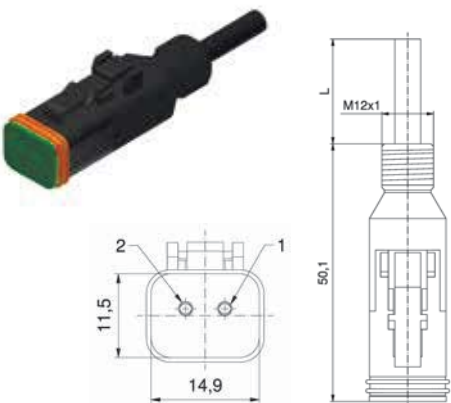
No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm ²]	Description	Part No.
2	10 - 230 V AC/ DC	8	5	PUR	2 x 0,75	DT06-2S-A/K1/0.75/2m	55-00388
						DT06-2S-A/K1/0.75/5m	55-00389
						DT06-2S-A/K1/0.75/10m	55-00390

Without LED-protection circuit, M12 thread

2	10 - 230 V AC/ DC	8	5	PUR	2 x 0,75	DT06-2SG-A/K1/0.75/2m	55-00391
						DT06-2SG-A/K1/0.75/5m	55-00392
						DT06-2SG-A/K1/0.75/10m	55-00393



PIN 1 ■
PIN 2 ■


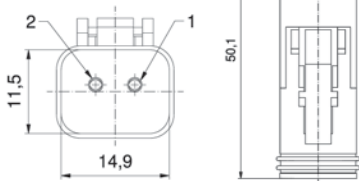
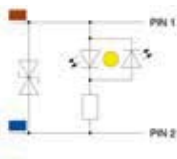

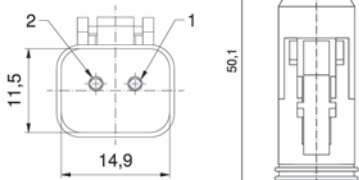
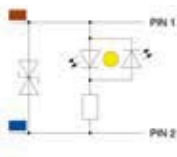


PIN 1 ■
PIN 2 ■

VALVE CONNECTORS
DT-Series

DT06, 2-pos.
Socket contacts, single wire

Type of protection circuit DT06 2-pos. single wire:
• B= Suppressordiode + 2x LED yellow
Additional types of protection circuit upon request
Technical information look at page 56 + 57

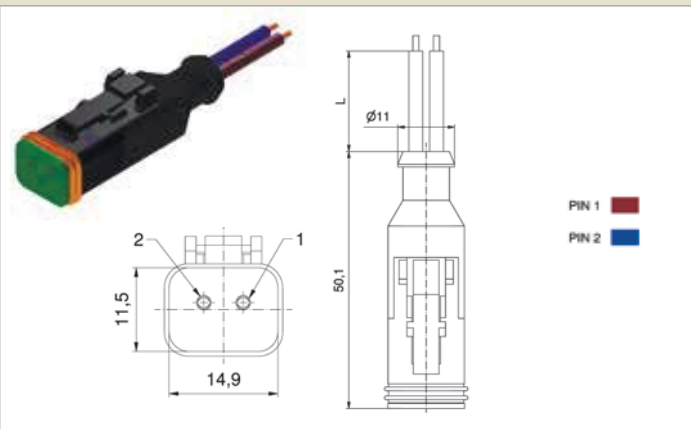
LED-protection circuit		Contact assignment	No. of poles	Type of protection circuit	Rated voltage [A]	Current rating [A]	Wire length = L [m]	Wire quality	Wire cross section [mm ²]	Description	Part No.
 		2	B	12 V AC / 24 V DC	8	2	PVC	2 x 0,75	DT06-2SL-B/A1/0.75/0,5m	55-00560	
									DT06-2SL-B/A1/0.75/2m	55-00482	
									DT06-2SL-B/A1/0.75/5m	55-00561	
LED-protection circuit, M12 thread											
 		2	B	12 V AC / 24 V DC	8	2	PVC	2 x 0,75	DT06-2SLG-B/A1/0.75/0,5m	55-00562	
									DT06-2SLG-B/A1/0.75/2m	55-00483	
									DT06-2SLG-B/A1/0.75/5m	55-00563	

VALVE CONNECTORS
DT-Series

DT06, 2-pos.
Socket contacts, single wire

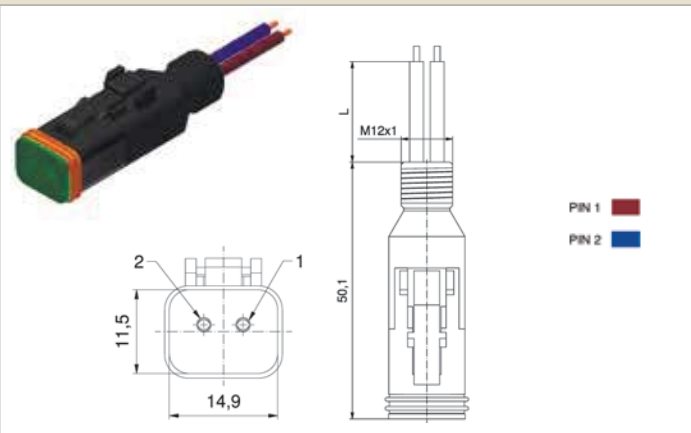
Without LED-protection circuit

Contact assignment



No. of poles	Rated voltage [A]	Current rating [A]	Wire length = L [m]	Wire quality	Wire cross section [mm ²]	Description	Part No.
2	10 - 230 V AC/ DC	8	2	PVC	2 x 0,75	DT06-2SL-A/A1/0.75/0,5m	55-00564
						DT06-2SL-A/A1/0.75/2m	55-00565
						DT06-2SL-A/A1/0.75/5m	55-00566

Without LED-protection circuit, M12 thread



2	10 - 230 V AC/ DC	8	2	PVC	2 x 0,75	DT06-2SLG-A/A1/0.75/0,5m	55-00567
						DT06-2SLG-A/A1/0.75/2m	55-00568
						DT06-2SLG-A/A1/0.75/5m	55-00569

VALVE CONNECTORS
DT-Series

DT04, 2-pos.
Plug contacts

Protection circuits DT04 (2-, 3-pos.) upon request
Technical information look at page 56 + 57

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.
		2	10 - 230 V AC/ DC	8	5	PUR	2 x 0,75	DT04-2PA/K1/0.75/2m	55-00448	
								DT04-2PA/K1/0.75/5m	55-00449	
								DT04-2PA/K1/0.75/10m	55-00450	
Without LED-protection circuit, M12 thread										
		2	10 - 230 V AC/ DC	8	5	PUR	2 x 0,75	DT04-2PG-A/K1/0.75/2m	55-00451	
								DT04-2PG-A/K1/0.75/5m	55-00452	
								DT04-2PG-A/K1/0.75/10m	55-00453	


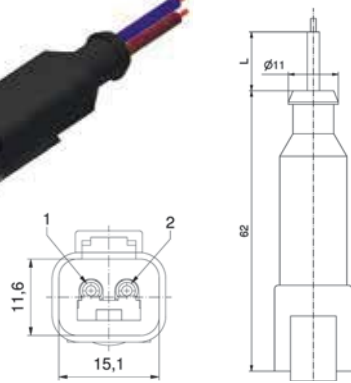
VALVE CONNECTORS
DT-Series

DT04, 2-pos.
Plug contacts, single wire


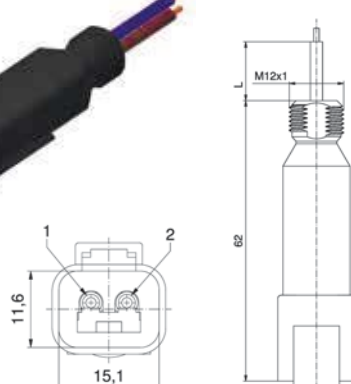
Protection circuits DT04 (2-, 3-pos.) upon request
Technical information look at page 56 + 57

Without LED-protection circuit

Contact assignment

		No. of poles	Rated voltage [A]	Current rating [A]	Wire length = L [m]	Wire quality	Wire cross section [mm ²]	Description	Part No.
  <p>PIN 1 ■ PIN 2 ■</p>	2	10 - 230 V AC/ DC	8	2	PVC	2 x 0,75	0.5	DT04-2PL-A/A1/0.75/0,5m	55-00576
							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

  <p>PIN 1 ■ PIN 2 ■</p>	2	10 - 230 V AC/ DC	8	2	PVC	2 x 0,75	0.5	DT04-2PLG-A/A1/0.75/0,5m	55-00579
							2	DT04-2PLG-A/A1/0.75/2m	55-00580
							5	DT04-2PLG-A/A1/0.75/5m	55-00581

VALVE CONNECTORS
DT-Series

DT06, 3-pos.
Socket contacts

LED-protection circuit

Contact assignment

Types of protection circuit DT06 (2-, 3-pos.):
 • B/G= Suppressordiode + 2x LED yellow
 • E= Varistor + 2x LED yellow
 • F= Freewheeling Diode + LED yellow
 Technical information look at page 56 + 57

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	PUR	3 x 0,75	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	PUR	3 x 0,75	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	PUR	3 x 0,75	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

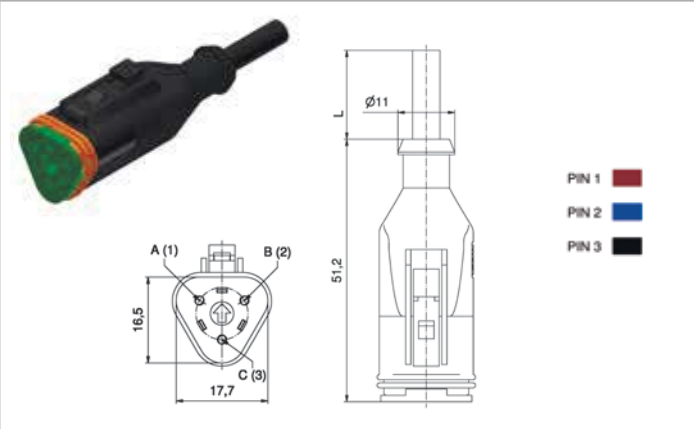
3	B	12 V AC / 24 V DC	8	2	PUR	3 x 0,75	DT06-3SG-B/K1/0.75/2m	55-00853
				5			DT06-3SG-B/K1/0.75/5m	55-00854
				10			DT06-3SG-B/K1/0.75/10m	55-00855
	G	8 - 22 V AC / 32 V DC	4	2	PUR	3 x 0,75	DT06-3SG-G/K1/0.75/2m	55-00775
				5			DT06-3SG-G/K1/0.75/5m	55-00776
				10			DT06-3SG-G/K1/0.75/10m	55-00777
	E	8 - 24 V AC / 30 V DC	4	2	PUR	3 x 0,75	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	PUR	3 x 0,75	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

VALVE CONNECTORS
DT-Series

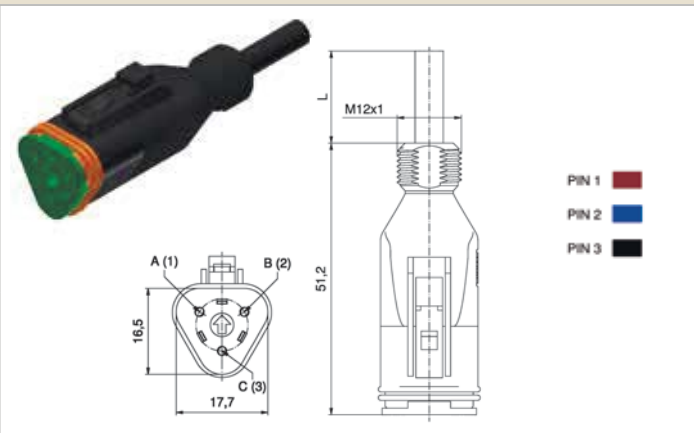
DT06, 3-pos.
Socket contacts

Without LED-protection circuit

Contact assignment

		No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm ²]	Description	Part No.
	3	10 - 230 V AC/ DC	8	5	PUR	3 x 0,75	2	DT06-3S-A/K1/0.75/2m	55-00826
							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

	3	10 - 230 V AC/ DC	8	5	PUR	3 x 0,75	2	DT06-3SG-A/K1/0.75/2m	55-00829
							5	DT06-3SG-A/K1/0.75/5m	55-00830
							10	DT06-3SG-A/K1/0.75/10m	55-00831

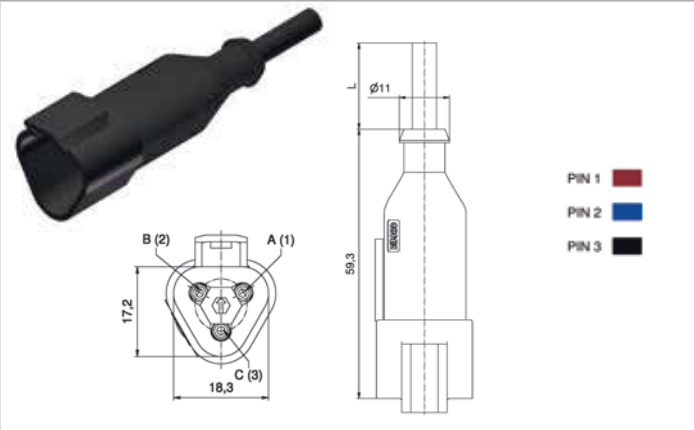
VALVE CONNECTORS
DT-Series

DT04, 3-pos.
Plug contacts

Protection circuits DT04 (2-, 3-pos.) upon request
Technical information look at page 56 + 57

Without LED-protection circuit

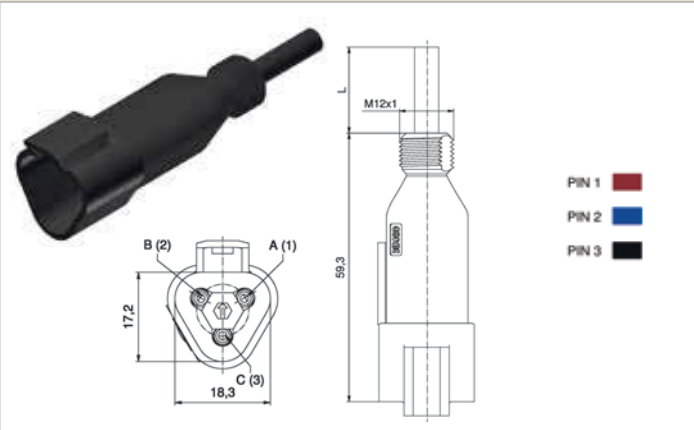
Contact assignment



No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm ²]
3	10 - 230 V AC/ DC	8	2	PUR	3 x 0,75
			5		
			10		

Description	Part No.
DT04-3P-A/K1/0.75/2m	55-00832
DT04-3P-A/K1/0.75/5m	55-00833
DT04-3P-A/K1/0.75/10m	55-00834

Without LED-protection circuit, M12 thread



No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm ²]
3	10 - 230 V AC/ DC	8	2	PUR	3 x 0,75
			5		
			10		

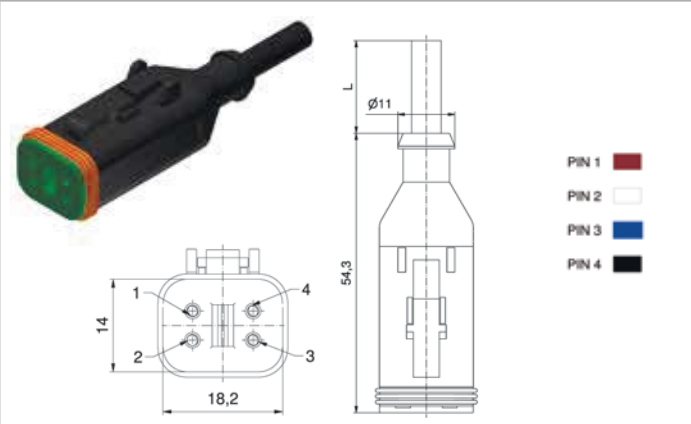
Description	Part No.
DT04-3PG-A/K1/0.75/2m	55-00835
DT04-3PG-A/K1/0.75/5m	55-00836
DT04-3PG-A/K1/0.75/10m	55-00837

VALVE CONNECTORS
DT-Series

DT06, 4-pos.
Socket contacts

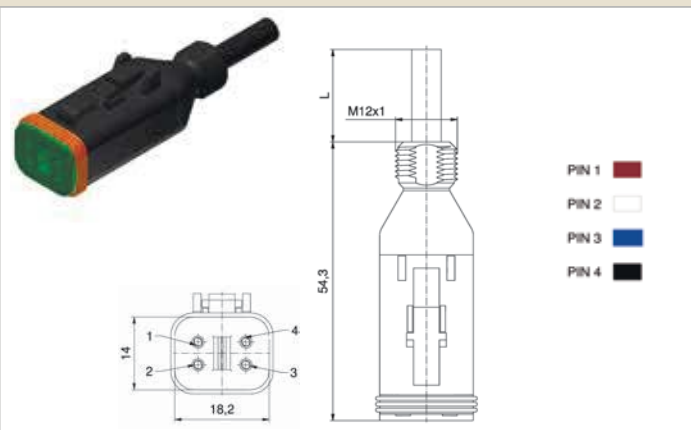
Without LED-protection circuit

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
			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



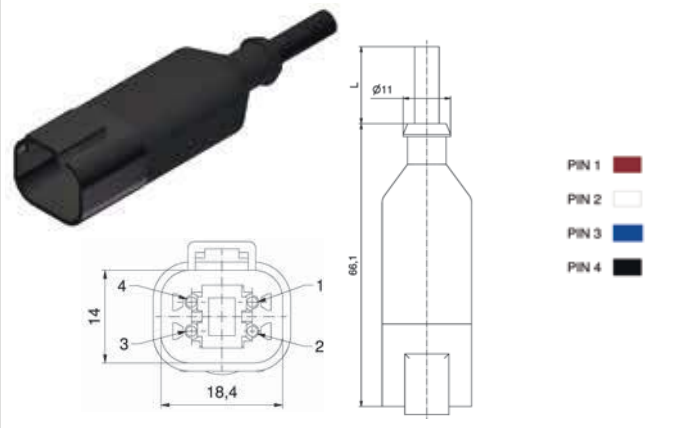
4	10 - 230 V AC/ DC	7	2	PUR	4 x 0,75	DT06-4SG-A/K1/0.75/2m	55-00841
			5			DT06-4SG-A/K1/0.75/5m	55-00842
			10			DT06-4SG-A/K1/0.75/10m	55-00843

VALVE CONNECTORS
DT-Series

DT04, 4-pos.
Plug contacts

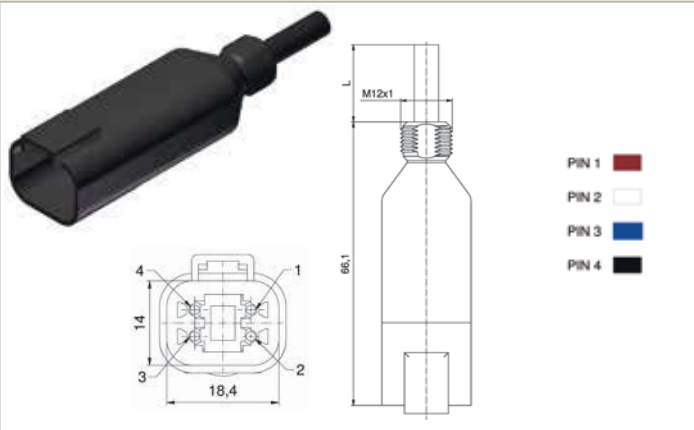
Without LED-protection circuit

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.
4	10 - 230 V AC/ DC	7	2	PUR	4 x 0,75	DT04-4P-A/K1/0.75/2m	55-00844
			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



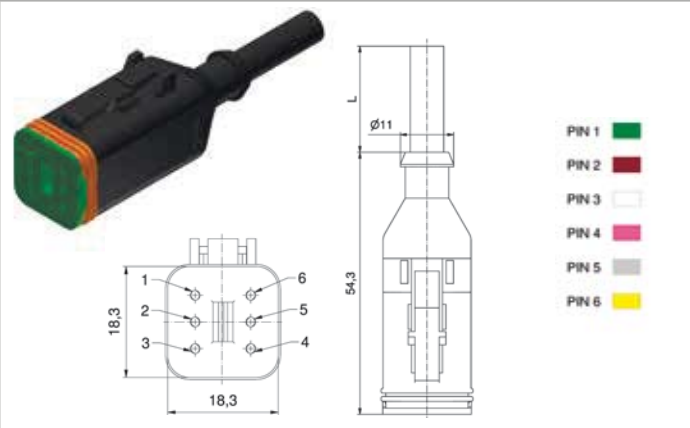
4	10 - 230 V AC/ DC	7	2	PUR	4 x 0,75	DT04-4PG-A/K1/0.75/2m	55-00847
			5			DT04-4PG-A/K1/0.75/5m	55-00848
			10			DT04-4PG-A/K1/0.75/10m	55-00849

VALVE CONNECTORS
DT-Series

DT06, 6-pos.
Socket contacts

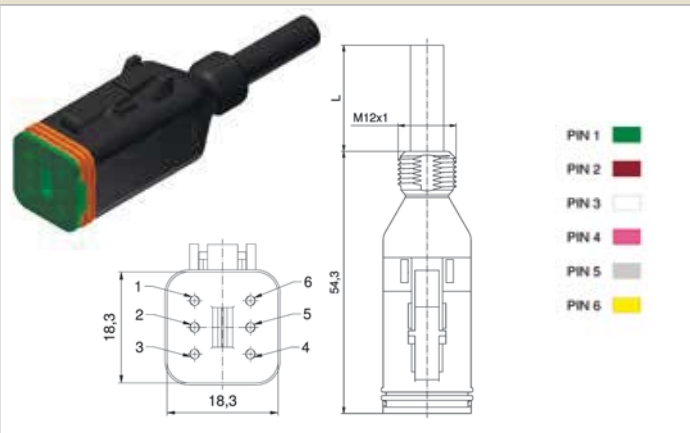
Without LED-protection circuit

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.
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



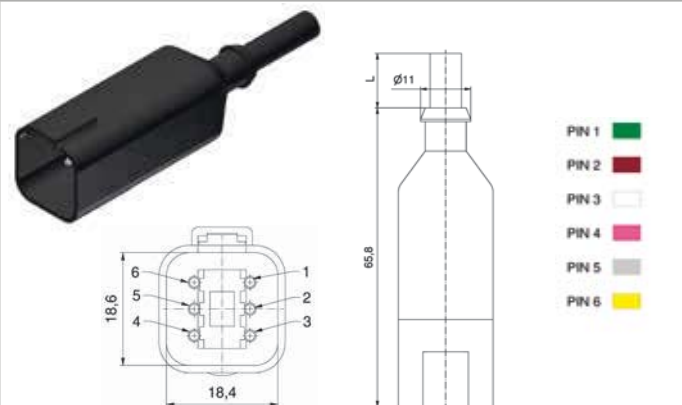
6	10 - 230 V AC/ DC	6	2	PUR	6 x 0,75	DT06-6SG-A/K1/0.75/2m	55-00504
			5			DT06-6SG-A/K1/0.75/5m	55-00505
			10			DT06-6SG-A/K1/0.75/10m	55-00506

VALVE CONNECTORS
DT-Series

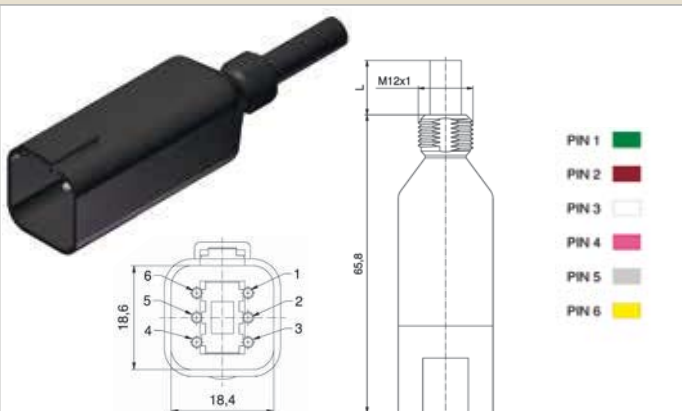
DT04, 6-pos.
Plug contacts

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.
	2	6	10 - 230 V AC/ DC	6	5	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

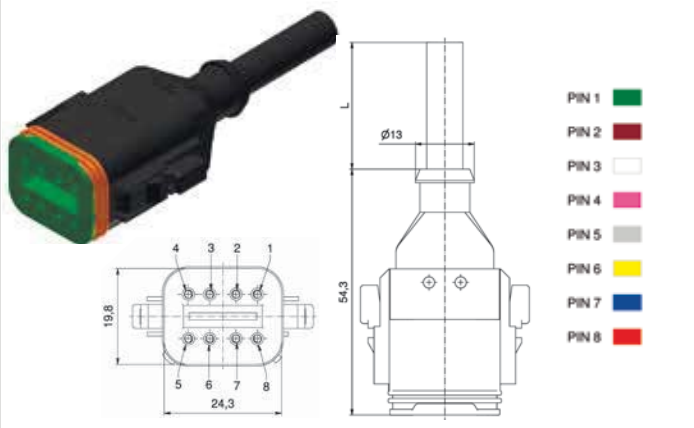
	2	6	10 - 230 V AC/ DC	6	5	PUR	6 x 0,75	DT04-6PG-A/K1/0.75/2m	55-00510
	5							DT04-6PG-A/K1/0.75/5m	55-00511
	10							DT04-6PG-A/K1/0.75/10m	55-00512

VALVE CONNECTORS
DT-Series

DT06, 8-pos.
Socket contacts

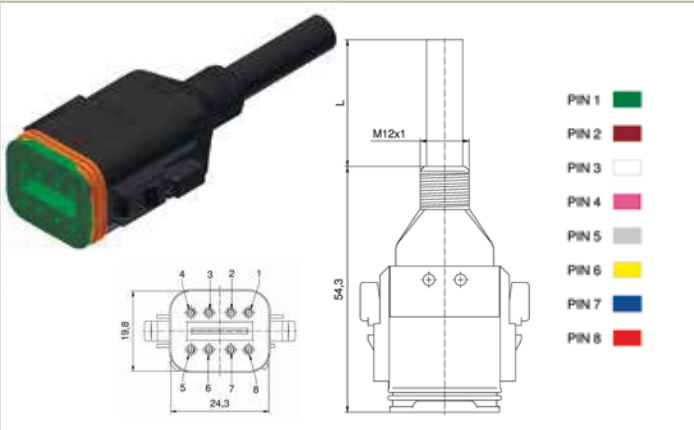
Without LED-protection circuit

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	6	2	PUR	8 x 0,75	DT06-8AS-A/K1/0.75/2m	55-00526
			5			DT06-8AS-A/K1/0.75/5m	55-00527
			10			DT06-8AS-A/K1/0.75/10m	55-00528

Without LED-protection circuit, M12 thread



8	10 - 230 V AC/ DC	6	2	PUR	8 x 0,75	DT06-8ASG-A/K1/0.75/2m	55-00532
			5			DT06-8ASG-A/K1/0.75/5m	55-00533
			10			DT06-8ASG-A/K1/0.75/10m	55-00534

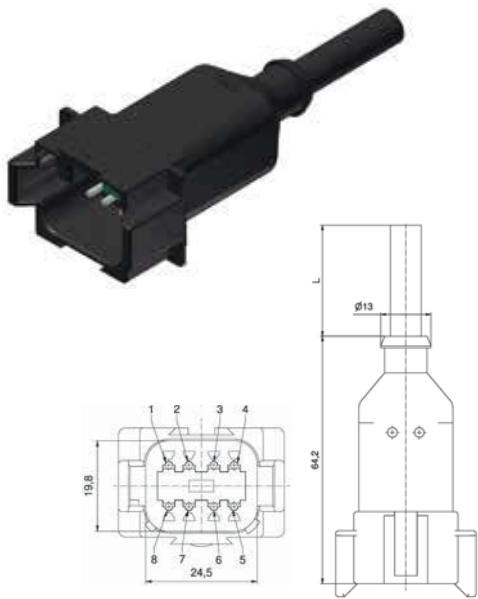
VALVE CONNECTORS
DT-Series

DT04, 8-pos.
Plug contacts

Without LED-protection circuit

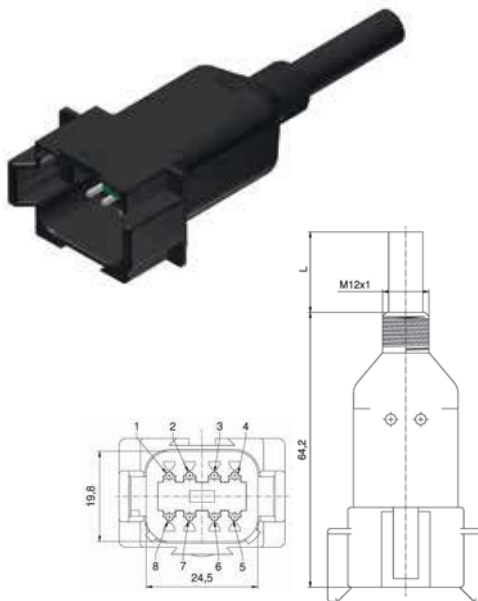
Contact assignment

No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm ²]	Description	Part No.
8	10 - 230 V AC/ DC	6	5	PUR	8 x 0,75	DT04-8AP-A/K1/0.75/2m	55-00529
						DT04-8AP-A/K1/0.75/5m	55-00530
						DT04-8AP-A/K1/0.75/10m	55-00531



Without LED-protection circuit, M12 thread

8	10 - 230 V AC/ DC	6	5	PUR	8 x 0,75	DT04-8APG-A/K1/0.75/2m	55-00535
						DT04-8APG-A/K1/0.75/5m	55-00536
						DT04-8APG-A/K1/0.75/10m	55-00537

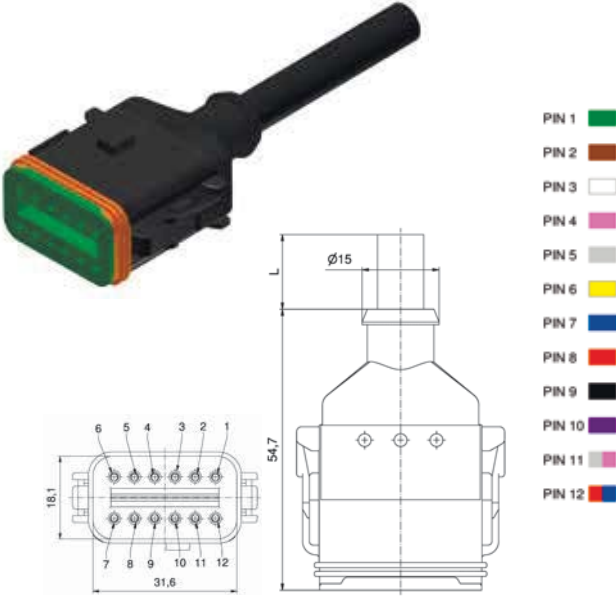


VALVE CONNECTORS
DT-Series

DT06, 12-pos.
Socket contacts

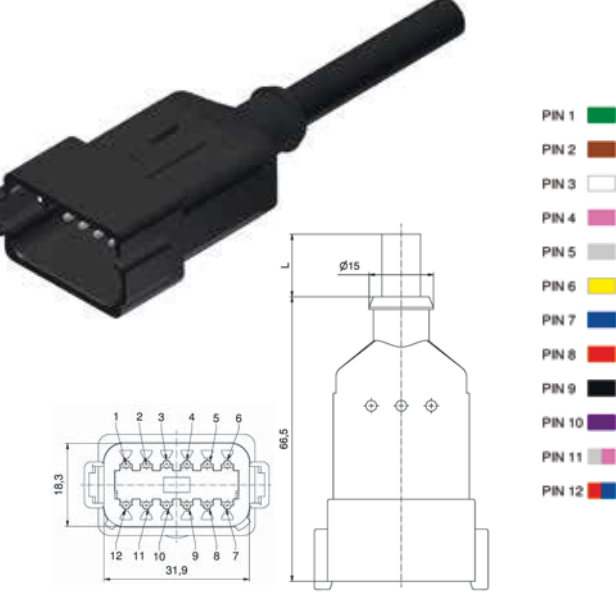
Without LED-protection circuit

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.
		12	10 - 230 V AC/ DC	5	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

DT04, 12-pos.
Plug contacts

Without LED-protection circuit

		12	10 - 230 V AC/ DC	5	2	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

SECTION 3

VALVE CONNECTORS SUPERSEAL-SERIE



ES



VALVE CONNECTORS SUPERSEAL-SERIES

Nomenclature

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

Type
VSS1.5

No of pos.

- 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 tube

- = Standard

Protection circuit

- A = without protection circuit

Material cable

- K1 = TPU, black, highflexible, halogenfree, UL
 - A1 = PVC single wire
- other types upon request

Wire cross section

- 0.75 = 0.75 mm²
- other wire cross section upon request

Cable length

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

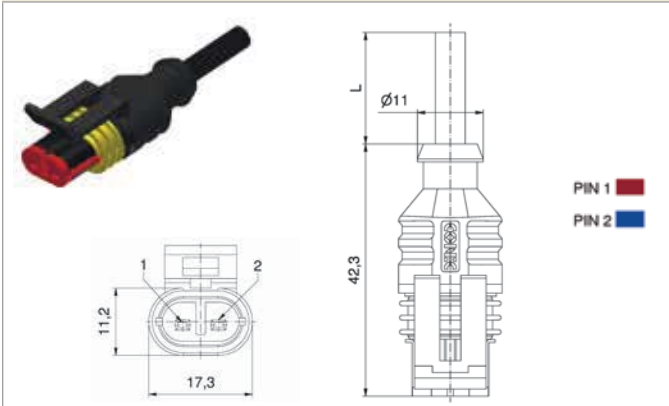
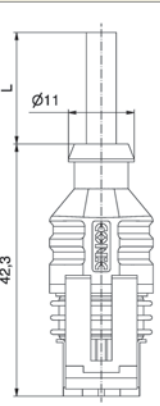
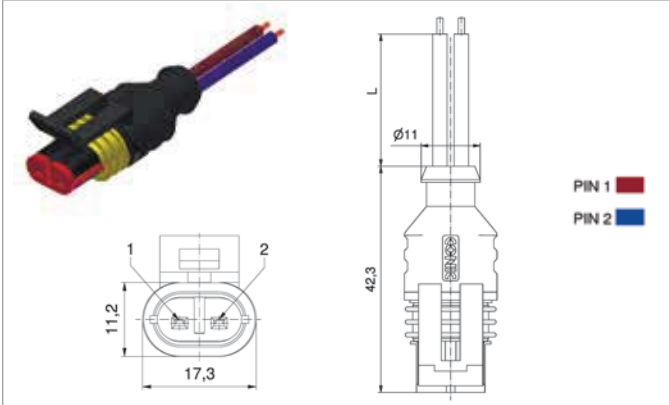
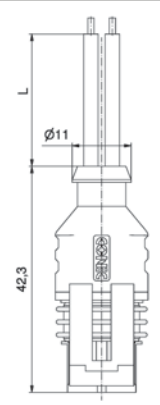
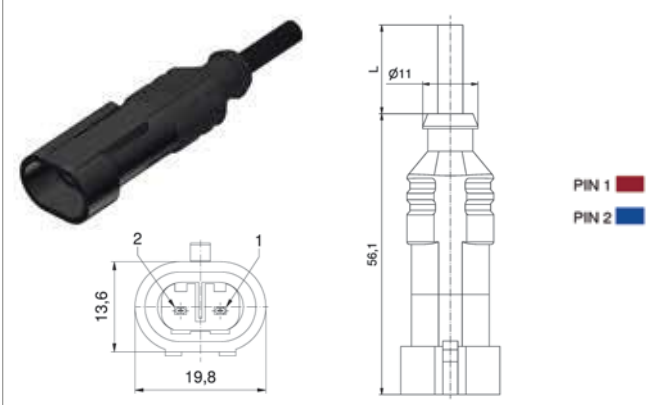
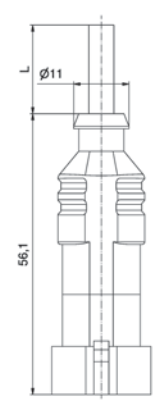
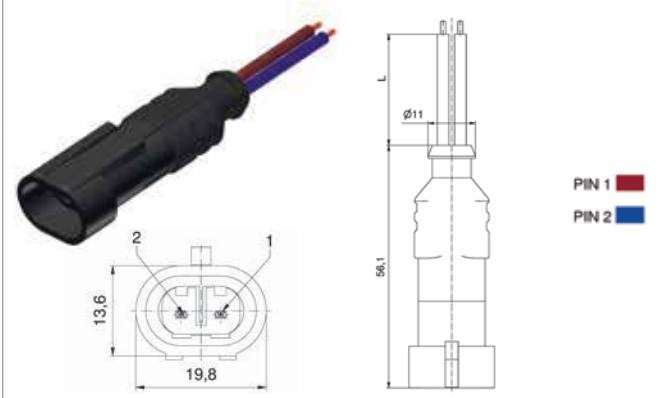
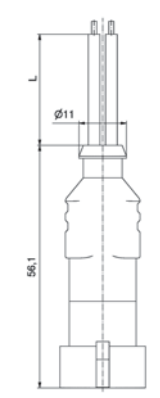
VALVE CONNECTORS SUPERSEAL-SERIES

Product specification

Basic material	
Contact	Copper alloy
Contact plating	Sn
Contact carrier	PA 6.6 GF
Overmould	TPU, UL94, black
Sealing	Silicone
Technical Data	
Rated voltage	max. 24 V DC
Current rating	8 A at 40 °C [2-, 3-pos.] 7 A at 40 °C [4-, 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.

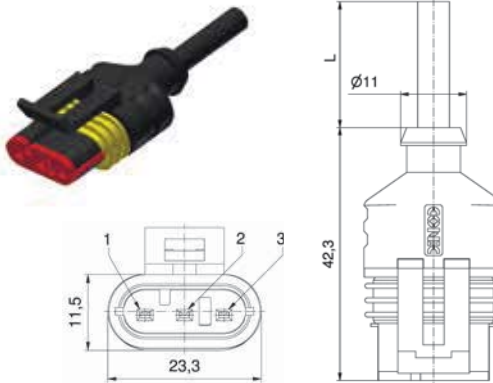
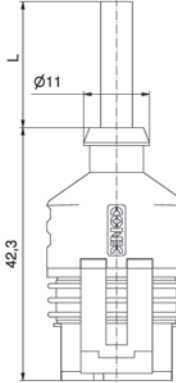

Contact assignment		No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm ²]	Description	Part No.
		2	max. 24 V DC	8	2	PUR	2 x 0,75	VSS1.5-2S-A/K1/0.75/2m	55-00470
					5			VSS1.5-2S-A/K1/0.75/5m	55-00471
					10			VSS1.5-2S-A/K1/0.75/10m	55-00472
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
					2			VSS1.5-2SL-A/A1/0.75/2m	55-00583
					5			VSS1.5-2SL-A/A1/0.75/5m	55-00584
Plug contacts									
		2	max. 24 V DC	8	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	8	0.5	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

VALVE CONNECTORS
Superseal-Series

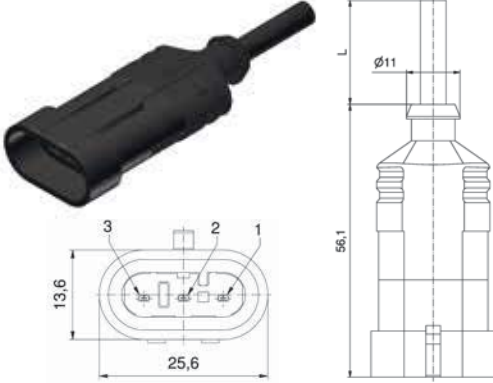
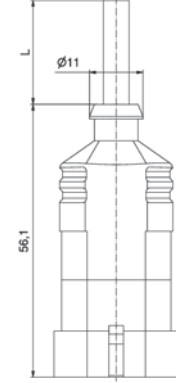

VSS 1.5
3-pos.

Socket contacts

Contact assignment

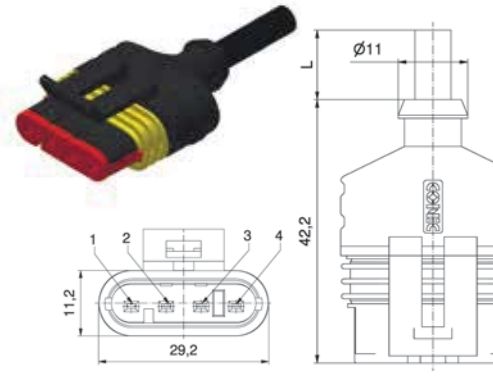
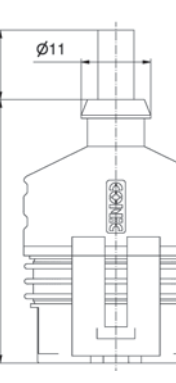

Socket contacts		Contact assignment		No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm ²]	Description	Part No.
			3	max. 24 V DC	8	5	PUR	3 x 0,75	VSS1.5-3S-A/K1/0.75/2m	55-00478	
									VSS1.5-3S-A/K1/0.75/5m	55-00479	
									VSS1.5-3S-A/K1/0.75/10m	55-00480	

Plug contacts

			3	max. 24 V DC	8	5	PUR	3 x 0,75	VSS1.5-3P-A/K1/0.75/2m	55-00474
									VSS1.5-3P-A/K1/0.75/5m	55-00475
									VSS1.5-3P-A/K1/0.75/10m	55-00476

VSS 1.5
4-pos.

Socket contacts


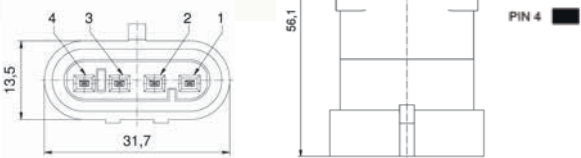
			4	max. 24 V DC	7	5	PUR	4 x 0,75	VSS1.5-4S-A/K1/0.75/2m	55-00595
									VSS1.5-4S-A/K1/0.75/5m	55-00596
									VSS1.5-4S-A/K1/0.75/10m	55-00597

VALVE CONNECTORS
Superseal-Series

VSS 1.5
4-pos.


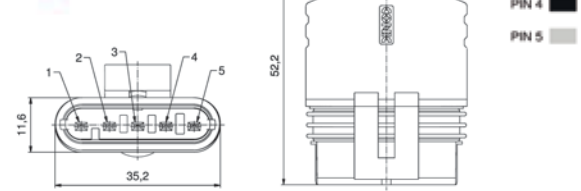
Plug contacts

Contact assignment


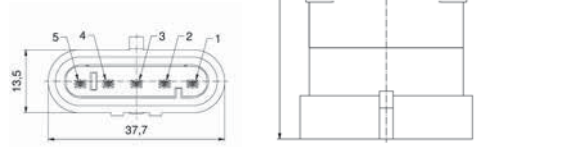
		No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm ²]	Description	Part No.
 	2	4	max. 24 V DC	7	5	PUR	4 x 0,75	VSS1.5-4P-A/K1/0.75/2m	55-00598
	5							VSS1.5-4P-A/K1/0.75/5m	55-00599
	10							VSS1.5-4P-A/K1/0.75/10m	55-00600

VSS 1.5
5-pos.

Socket contacts

 	2	5	max. 24 V DC	7	5	PUR	5 x 0,75	VSS1.5-5S-A/K1/0.75/2m	55-00641
	5							VSS1.5-5S-A/K1/0.75/5m	55-00642
	10							VSS1.5-5S-A/K1/0.75/10m	55-00643

Plug contacts

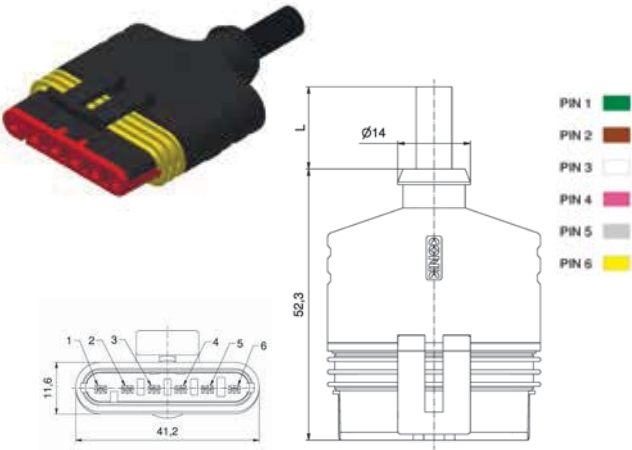
 	2	5	max. 24 V DC	7	5	PUR	5 x 0,75	VSS1.5-5P-A/K1/0.75/2m	55-00644
	5							VSS1.5-5P-A/K1/0.75/5m	55-00645
	10							VSS1.5-5P-A/K1/0.75/10m	55-00646

VALVE CONNECTORS
Superseal-Series

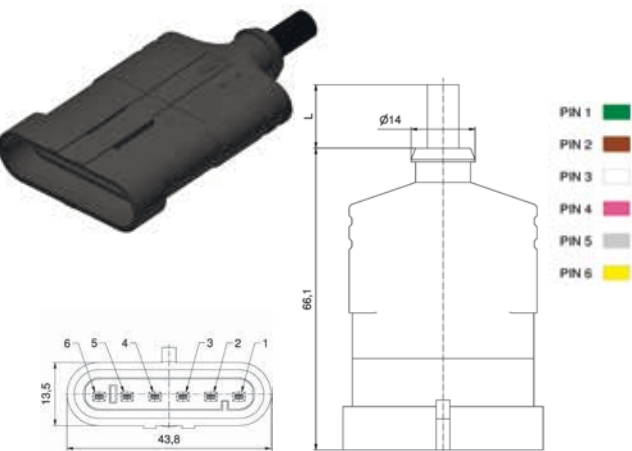
VSS 1.5
6-pos.

Socket contacts

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.
	2	6	max. 24 V DC	6	5	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

Plug contacts

	2	6	max. 24 V DC	6	5	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

SECTION 4

M12x1 CONNECTORS OVERMOULDED



WITH PLASTIC COUPLING SCREW/NUT



M12x1 CONNECTORS OVERMOULDED WITH PLASTIC COUPLING SCREW/NUT

Nomenclature

SAL - 12 - R K W K 4 - 2 / K1 / 075

SAL
Sensor Actor Line

Installation size
Coupling element

Type
R = Circular connectors

Gender
K = Female connector
S = Male connector

Configuration
= Axial
W = Angled

Screw locking
K = plastic coupling screw/nut

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

Cable length
xx = Length [m]

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

Wire cross section
075 = 0.75 mm²

M12x1 CONNECTORS OVERMOULDED WITH PLASTIC COUPLING SCREW/NUT

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 screw/nut	PA GF, UL 94 HB, black
Technical Data	
Rated voltage	250 V / 60 V
Current rating	4 A
Degree of protection	IP68
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
Plastic coupling nut

Female connector
axial

TPU, UL, black, Li9Y11Y

Contact assignment

No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Wire cross section [mm ²]
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Additional wire cross sections and double ended variants on request

					Description	Part No.		
		4	250 V	4	2	SAL-12-RKK4-2/K1/075	43-20337	
					5	0.75	SAL-12-RKK4-5/K1/075	43-20339
					10		SAL-12-RKK4-10/K1/075	43-20340

TPU, UL, black, Li9Y11Y

		5	60 V	4	2	SAL-12-RKK5.1-2/K1/075	43-20345	
					5	0.75	SAL-12-RKK5.1-5/K1/075	43-20347
					10		SAL-12-RKK5.1-10/K1/075	43-20348

Female connector
angled

TPU, UL, black, Li9Y11Y

		4	250 V	4	2	SAL-12-RKWK4-2/K1/075	43-20353	
					5	0.75	SAL-12-RKWK4-5/K1/075	43-20355
					10		SAL-12-RKWK4-10/K1/075	43-20356

TPU, UL, black, Li9Y11Y

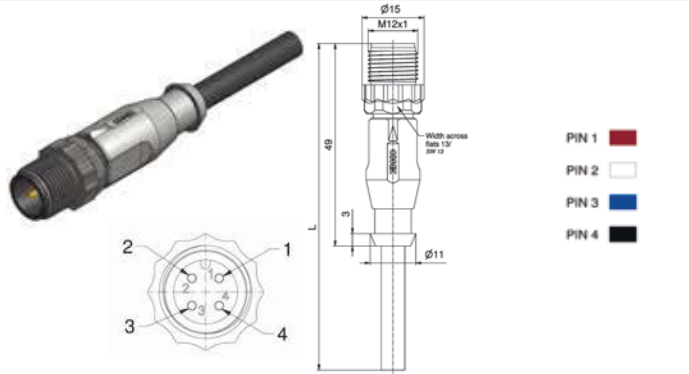
		5	60 V	4	2	SAL-12-RKWK5.1-2/K1/075	43-20361	
					5	0.75	SAL-12-RKWK5.1-5/K1/075	43-20363
					10		SAL-12-RKWK5.1-10/K1/075	43-20364

M12X1 CONNECTORS OVERMOULDED
Plastic coupling screw

Male connector axial

TPU, UL, black, Li9Y11Y

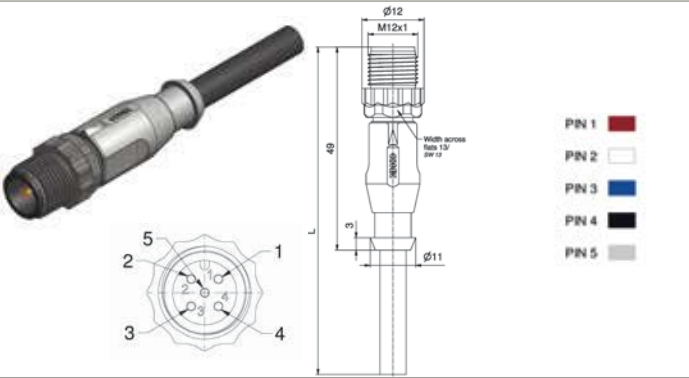
Contact assignment



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

Additional wire cross sections and double ended variants on request

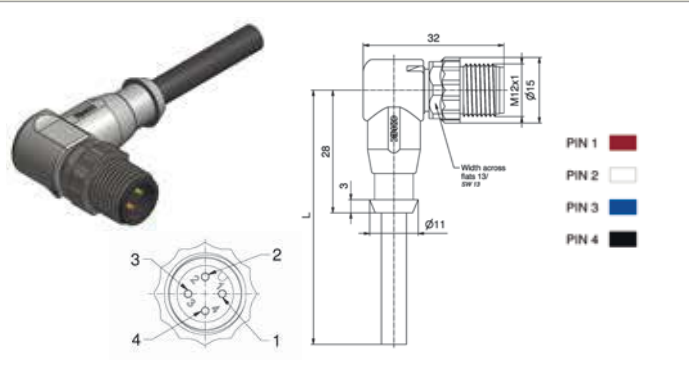
TPU, UL, black, Li9Y11Y



5	60 V	4	5	0.75	SAL-12-RSK5.1-2/K1/075	43-20349
					SAL-12-RSK5.1-5/K1/075	43-20351
					SAL-12-RSK5.1-10/K1/075	43-20352

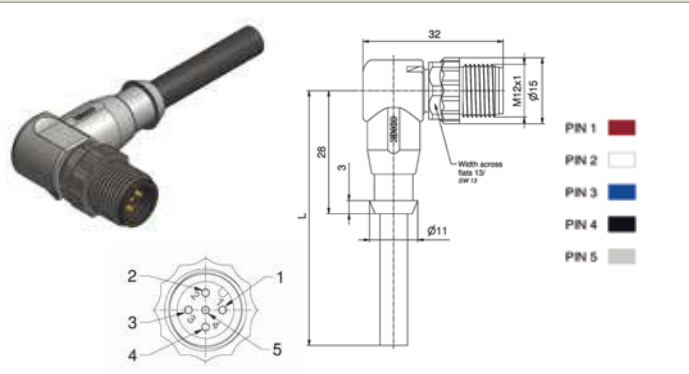
Male connector angled

TPU, UL, black, Li9Y11Y



4	250 V	4	5	0.75	SAL-12-RSWK4-2/K1/075/A1090	43-20357
					SAL-12-RSWK4-5/K1/075/A1090	43-20359
					SAL-12-RSWK4-10/K1/075/A1090	43-20360

TPU, UL, black, Li9Y11Y



5	60 V	4	5	0.75	SAL-12-RSWK5.1-2/K1/075/A1090	43-20365
					SAL-12-RSWK5.1-5/K1/075/A1090	43-20367
					SAL-12-RSWK5.1-10/K1/075/A1090	43-20368

SECTION 5

JUNCTION SYSTEM TYPE S, M, L _____





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 junction systems (S, M and L).



Example: Selection light system








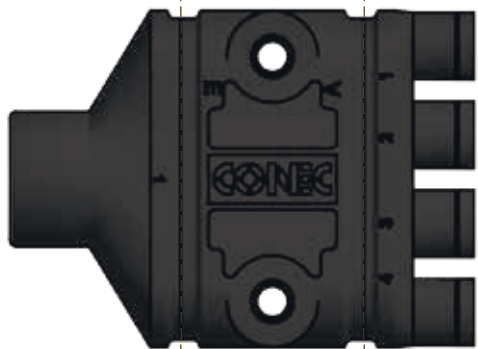

Characteristics	Type S	Type M	Type L
Dimensions (L x W x H mm)	66 x 30 x 15	66 x 40 x 15	76 x 55 x 22
Cable entry	1, 2	1, 2, 3	1
Cable exit	1, 2	1, 2, 3	3, 4

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 max. 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

Suitabel series	Input	Output	Suitabel series
 <p>VSS - Series Type: S, M, L</p>	<p>1, 2</p> <p>Type S</p> 	<p>1, 2</p>	 <p>M8 - Series Type: S, M, L</p>
 <p>DT - Series Type: S, M, L</p>	<p>1, 2, 3</p> <p>Type M</p> 	<p>1, 2, 3</p>	 <p>M12 - Series Type: S, M, L</p>
 <p>ISOBUS - Series Type: L</p>	<p>1 (ISOBUS)</p> <p>Type L</p> 	<p>3, 4</p>	 <p>D-SUB - Series Type: S, M, L</p>

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
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	8 mm	17 mm
Max. cable diameter exit	8 mm	8 mm	13 mm (3 exits) 8 mm (4 exits)
Degree of protection	IP67	IP67	IP67

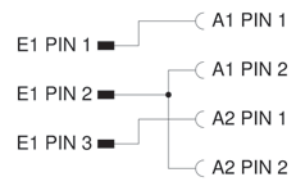
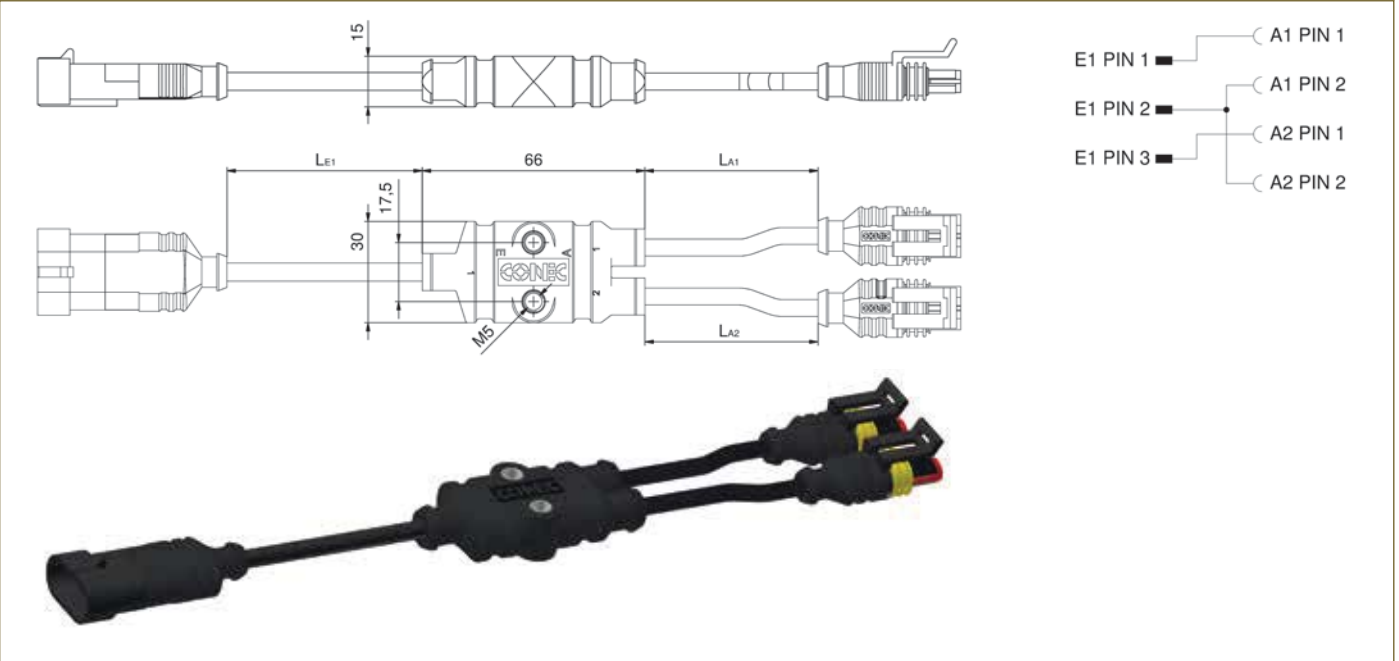
* Other cable qualities on request

JUNCTION SYSTEM Example

Type S

1 Entry / 2 Exits

Contact Assignment

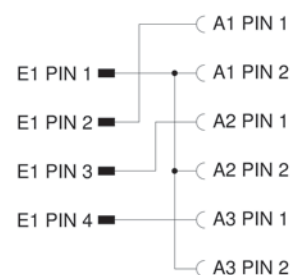
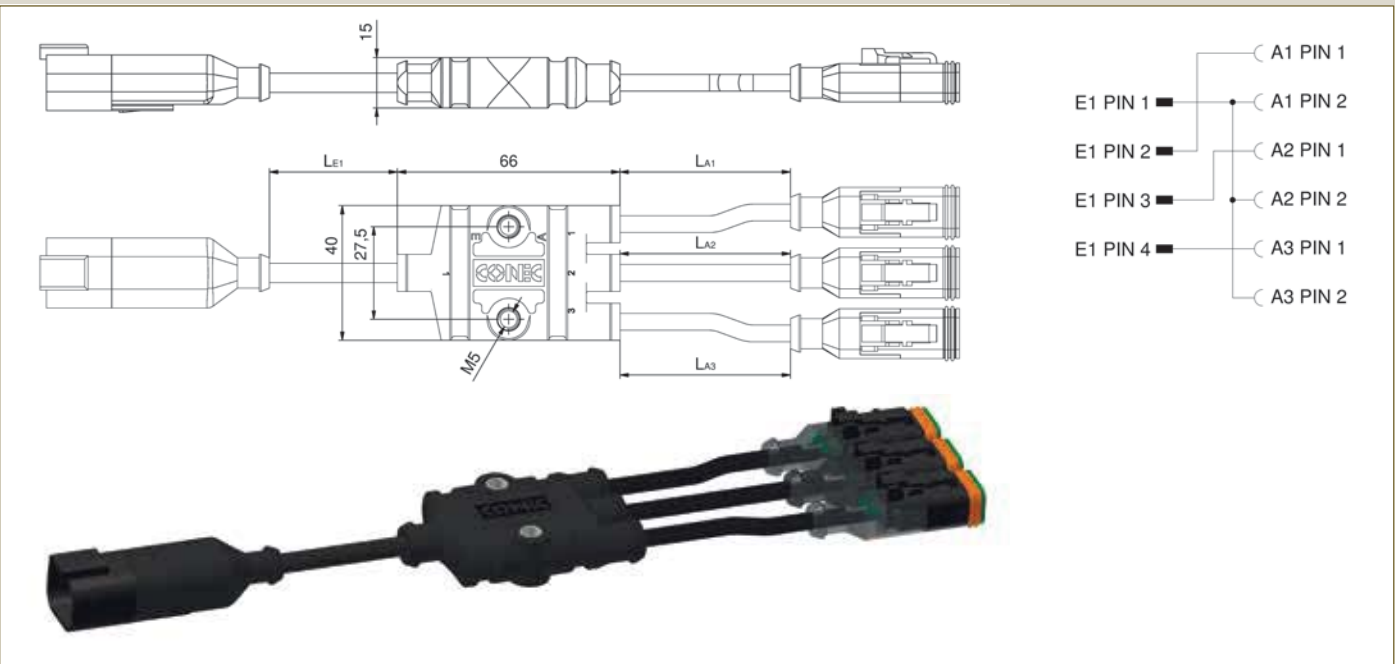


Entry E_{1-2}	Type	Length L_{E1-2} [m]	Distribution type	Exit A_{1-2}	Type	Length L_{A1-2} [m]	Article
E1	VSS1.5-3P-A	0,6	S	A1	VSS1.5-2S-A	0,6	55-20001
E2	-	-		A2	VSS1.5-2S-A	0,6	

Type M

1 Entry / 3 Exits

Contact Assignment

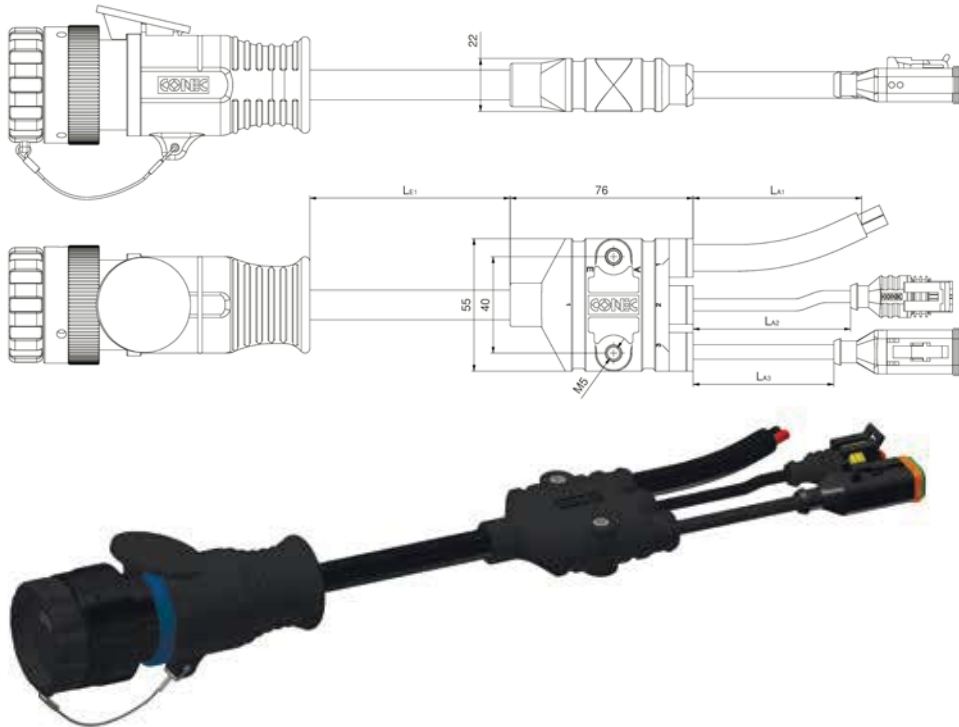


Entry E_{1-3}	Type	Length L_{E1-3} [m]	Distribution type	Exit A_{1-3}	Type	Length L_{A1-3} [m]	Article
E1	DT04-4P-A	0,6	M	A1	DT06-2S-B	0,6	55-20002
E2	-	-		A2	DT06-2S-B	0,6	
E3	-	-		A3	DT06-2S-B	0,6	

Type L

1 Entry / 3 Exits

Contact Assignment

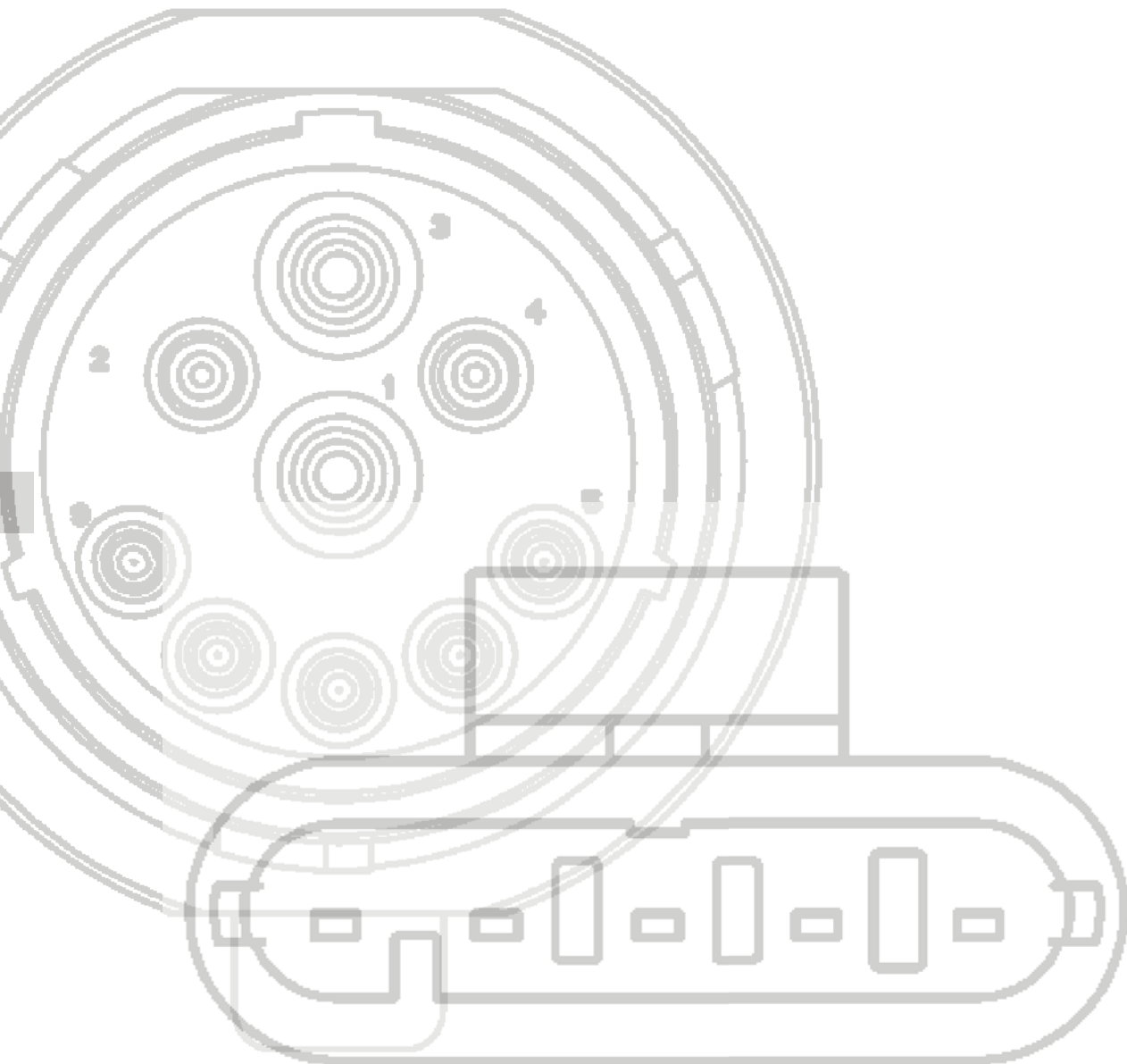


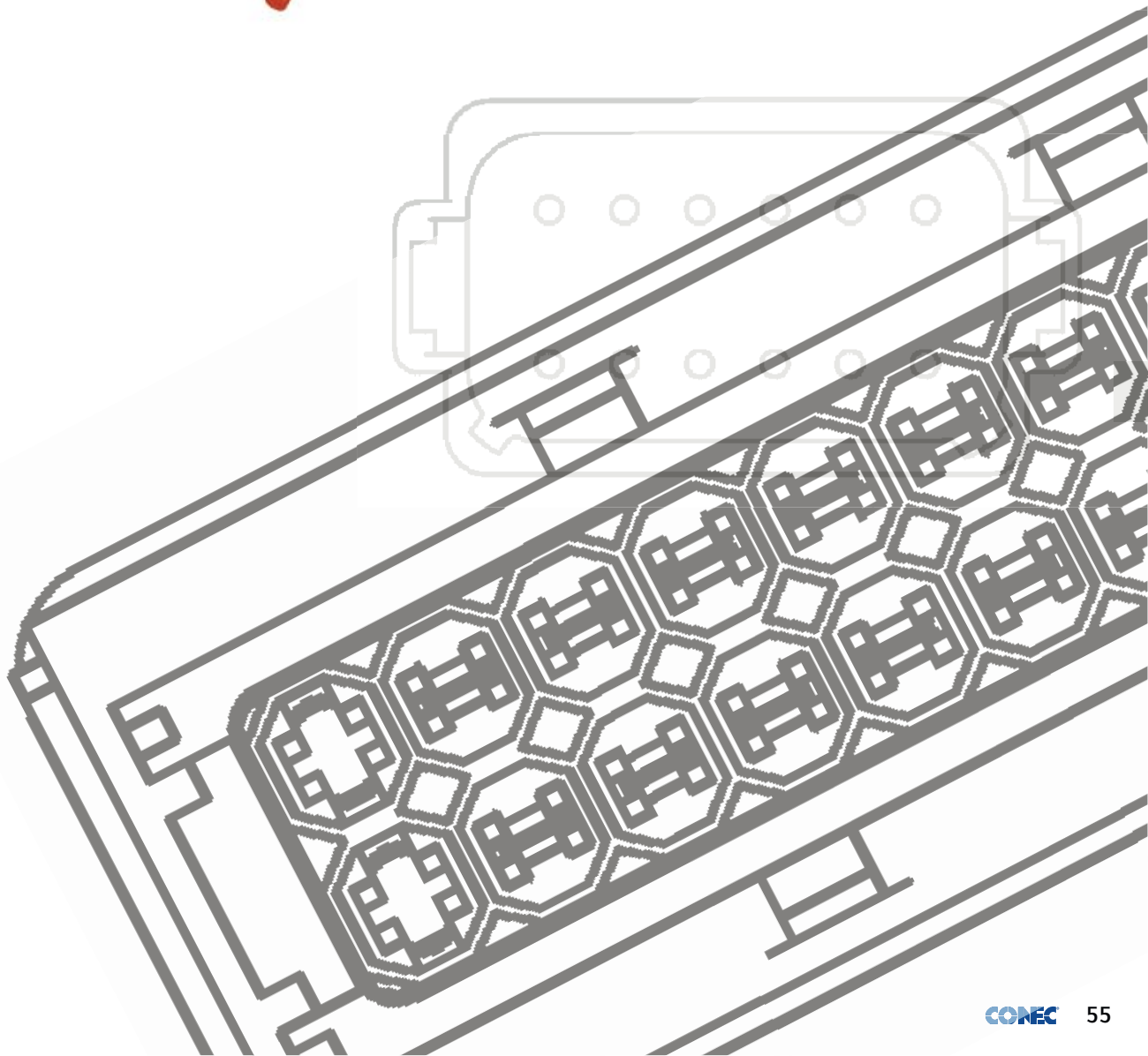
- E1 PIN 1 (6mm²) — A1 PIN 1 (6mm²)
- E1 PIN 2 (2,5mm²) — A1 PIN 2 (2,5mm²)
- E1 PIN 3 (6mm²) — A2 PIN 1 (6mm²)
- E1 PIN 4 (2,5mm²) — A2 PIN 2 (2,5mm²)
- E1 PIN 5 (0,5mm²) — A3 PIN 1 (0,5mm²)
- E1 PIN 6 (0,5mm²) — A3 PIN 2 (0,5mm²)
- E1 PIN 7 (0,5mm²) — A3 PIN 3 (0,5mm²)
- E1 PIN 8 (0,5mm²) — A3 PIN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

Entry _{E1}	Type	Length $L_{E1,3}$ [m]	Distribution type	Exit _{A1-4}	Type	Length $L_{A1,4}$ [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 6

TECHNICAL INFORMATION





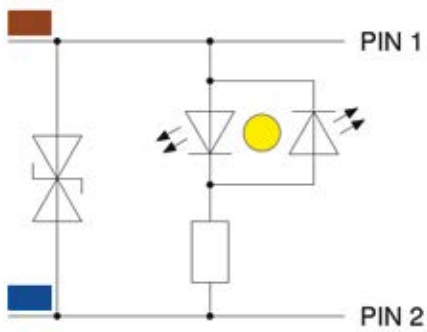
Protection circuits
2- and 3-pos. DT connectors

Protection circuits are currently available in 3 different versions.

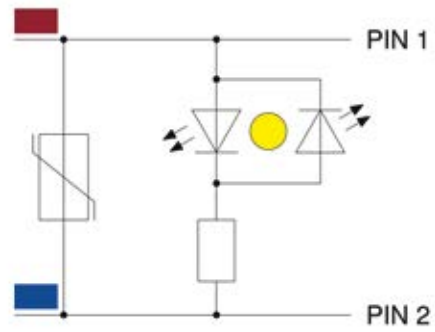
- 1) Protection circuit with suppressor diode + 2 LEDs (yellow)
- 2) Protection circuit with varistor + 2 LEDs (yellow)
- 3) Protection circuit with freewheeling diode + 1 LED (yellow)

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.

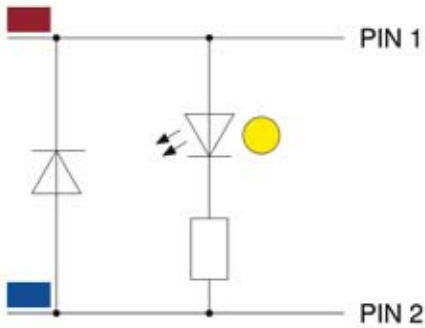
As a result of the faster response, suppressor diodes are perfectly suitable in areas of input / output interfaces and sensitive circuits.

Varistors are preferably used on supply lines and inductive loads.

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 	Directly on <ul style="list-style-type: none"> • Relays • Solenoid valves

TECHNICAL INFORMATION
Cable qualities

Cable unshielded
DT/Superseal Series

TPU, halogenfree, for drag chain applications

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



Wire cross section [mm ²]	Number of wires	Color cable jacket	Certification	Wire colors	Datasheet No.
0.75	2	black	cULus 20549	BN - BU	781- K1 7200
			cULus 20549	BN - BU - GN/YE	781- K1 7300
	3		cULus 20549	BN - BU - BK	781- K1 730G
			cULus 20549	BN - BU - BK - GN/YE	781- K1 7400
	4		cULus 20549	BN - WH - BU - BK	781- K1 740G
			cULus 20549	BR - WS - BL - SW - GR	781- K1 7500
	5		cULus 20549	BR - WS - BL - SW - GR	781- K1 750G
			cULus 20549	WS - BR - GN - GE - GR - RS	781- K1 7600
	6		cULus 20549	WS - BR - GN - GE - GR - RS	781- K1 7600
	8		cULus 20549	WS - BR - GN - GE - GR - RS - BL - RT	781- K1 7800
12	cULus 20549	BN - BU - WH - GN - PK - YE - BK - GY - RD - VT - GY/PK - RD/BU	781- K1 7120		

Hybrid cable shielded
ISOBUS

TPU



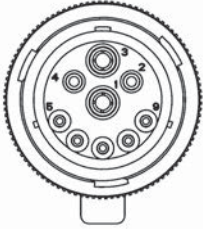
4x0.50 + 2x2.50 + 2x10.00	4x2x2	black	yes	BK - YE - GN - RD - BK - RD - BK - RD	ISO 600P: 781-BS0097
4x0.50 + 2x2.50 + 2x6.00	4x2x2		yes	BK - YE - GN - RD - BK - RD - BK - RD	ISO 1000P: 781-BS0098

TECHNICAL INFORMATION

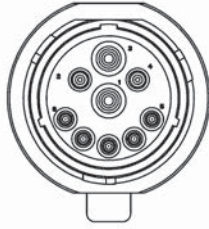
Overview pin assignment

ISOBUS - Connectors overmoulded, female/male

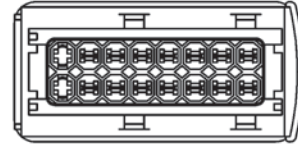
JPT - Connector



Female
9-pos.

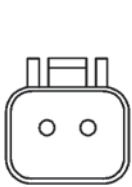


Male
9-pos.

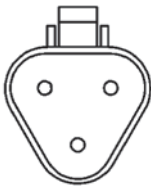


Female
16-pos.

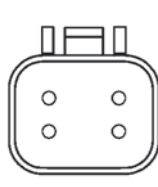
DT-Series 06 (Housing for socket contacts)



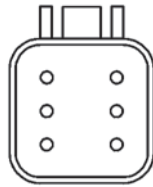
2-pos.



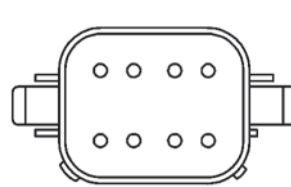
3-pos.



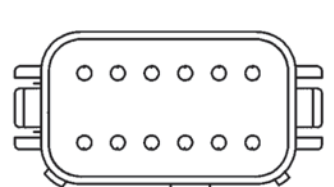
4-pos.



6-pos.



8-pos.
A-coded



12-pos.
A-coded

DT-Series 04 (Housing for plug contacts)



2-pos.



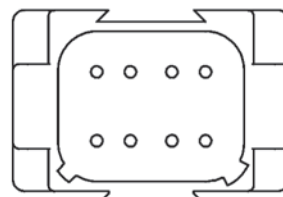
3-pos.



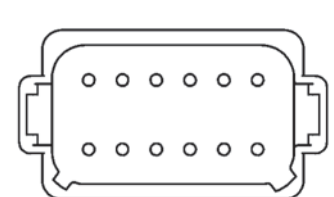
4-pos.



6-pos.



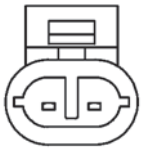
8-pos.
A-coded



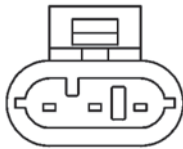
12-pos.
A-coded

Overview pin assignment

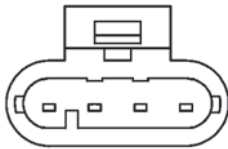
Superseal-series VSS1.5 (Housing for socket contacts)



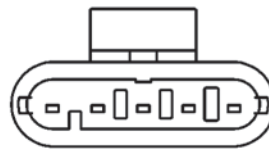
2-pos.



3-pos.



4-pos.

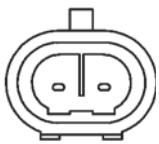


5-pos.

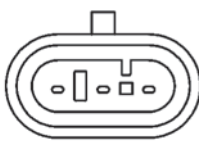


6-pos.

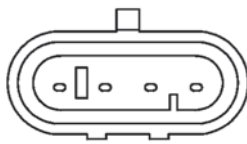
Superseal-series VSS1.5 (Housing for plug contacts)



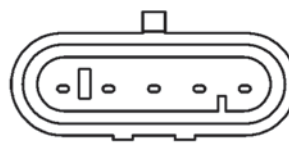
2-pos.



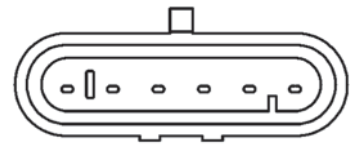
3-pos.



4-pos.

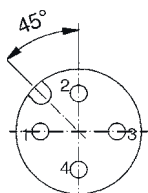


5-pos.

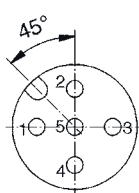


6-pos.

12x1 connectors overmoulded, female, plastic coupling nut

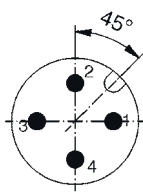


Female connector
4-pos.

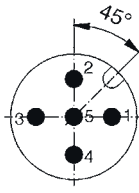


Female connector
4-pos.

12x1 connectors overmoulded, male, plastic coupling screw



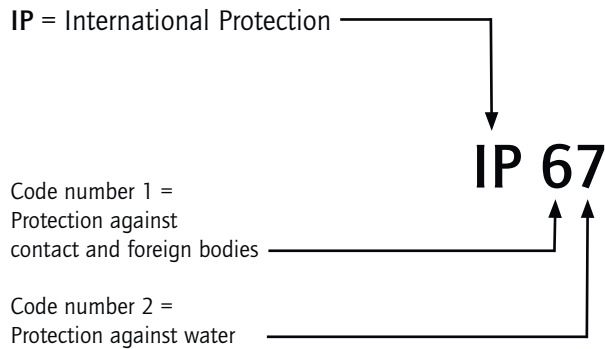
Male connector
5-pos.



Male connector
5-pos.

Protection classes

Norm IEC 60529



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

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

PROTECTION CLASS OVERVIEW

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

Electrotechnical information

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.

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 $175 \leq \text{CTI} < 400$

Electrotechnical information

American Wire Gauges

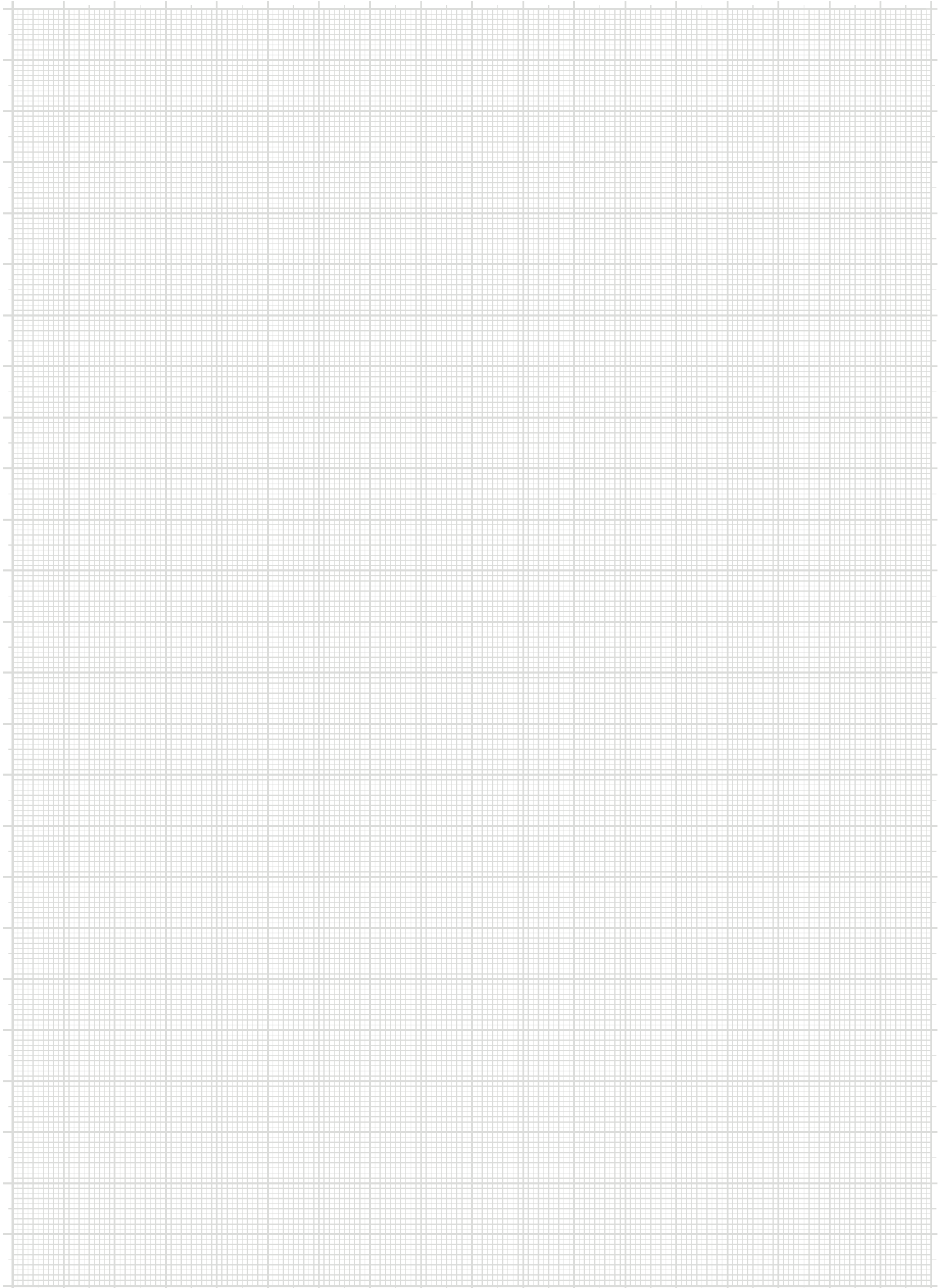
The American Wire Gauge AWG is also found in various areas of the automation industry use .
The following table is used for the conversion of AWG Supports at in mm² .

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 7

ADDITIONAL PRODUCT CATEGORIES





ADDITIONAL CONEC PRODUCT CATEGORIES

CONEC SuperCon Power Hybrid connectors



Details

- Size: B12, B17, B23
- Coding: 1, 2, 3
- Number of poles power: 2, 3, 4, 5, 6,
- Number of poles data: 4 (transmission according IEC11801 Cat5e)
- Configuration: Connector axial overmoulded, Connector axial field attachable, sockets axial
- Bayonet locking
- Degree of protection: IP67

Benefits

- Space-saving by transmitting data and power with one connector
- Quick and secure connection by bayonet locking
- Application-related cable qualities
- Compact and robust design

Circular connectors overmoulded



Details

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

Benefits

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

ADDITIONAL CONEC PRODUCT CATEGORIES

Circular connectors field attachable



Details

- Size: M8x1, M12x1, 7/8", Rund24
- Coding: A, B, D, P, X
- 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 (M8, M12)
- Easy field attachable without special tools
- M12x1 cable cross section 1.5 mm²
- Vibration proof screw lock

Sockets



Details

- Size: M8x1, M12x1, 7/8"
- Coding: A, B, D, L, P, S, T, X
- Number of poles: 3, 4, 5, 6, 8, 12, 2+PE, 3+PE, 4+FE, 4+PE
- Male socket, female socket
- Configuration: axial or angled
- Degree of protection: IP67
- Field attachable crimp version
- Assembly: Protection cap

Benefits

- Front and back panel mounting
- 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



Details

- Size: M8x1 SMT/THR, M12x1 SMT
- Coding: A, B, D, X
- Number of poles: 3, 4, 5, 8
- Male socket, female socket
- Configuration: axial or angled, shielded or unshielded
- Degree of protection: IP67

Benefits

- Front and back panel mounting
- 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 on minimum space requirements
- Different codings
- Mating can be controlled with torque wrench
- Defined tightening torque
- Polarity reversal prevented with coded insulators

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: A, B, D, P, X
- Number of poles: 4, 5, 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
- Application-related coloring of cables and contact insulators

Junction systems



Details

- Size: M8x1, M12x1, 7/8"
- Number of poles: 3, 4, 5, 8, 4+PE
- 1:1 wiring
- Signal distribution
- Degree of protection: IP67
- Assembly: retaining clip, protection caps

Benefits

- Robust design with minimum space requirements
- Signals and power are transmitted by standardized plug systems
- Back-to-back assembly with retaining clip
- Protection of unused interfaces

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
- Easy and secure 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
- Adapters
- Degree of protection: IP20 (patch cord), IP67

Benefits

- Use in harsh environments
- Easy and secure locking by bayonet lock
- Front- and back panel mounting
- UV resistant material
- USB Memory Stick 2 GB integrated into protection cap
- 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
- UTP Cat 5e, STP Cat 5e, S/STP Cat 6A
- Degree of protection: IP20 (patch cord) IP67

Benefits

- Use in harsh environments
- Easy and secure locking by bayonet lock
- Front- and back panel mounting
- UV resistant material for outdoor use
- Light-weight versions
- Colored interface encoding available

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
- Easy and secure 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
- 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-adapter 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
- Termination: solder pin straight/angled, solder cup
- Degree of protection: IP67

Benefits

- Use in harsh environments
- Front- and back panel mounting
- Increased corrosion protection
- Precision machined contacts

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

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

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
- UV resistant material for use outdoors
- Assembly without special tools

ADDITIONAL CONEC PRODUCT CATEGORIES

PCB connectors



Overview

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

Customized products



Many things are possible

Are you looking for application-specific solutions?

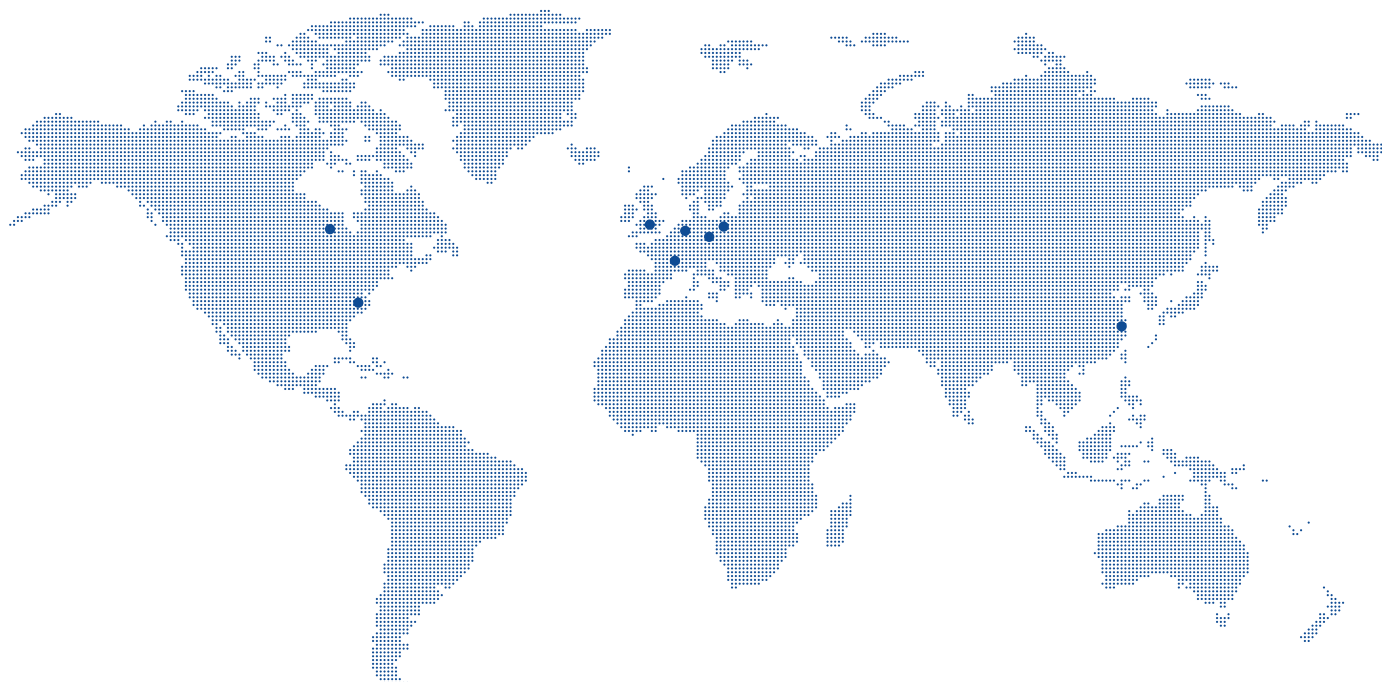
Please contact us – our expert team will support you from the product concept up to optimised serial production.

- Special interconnect solutions to customer specifications
- Prototypes and small series production batches
- Connectors with increased IP ratings for harsh environments
- Enclosure technology for industrial use

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