

CONNECTORS

AGRICULTURAL & CONSTRUCTION MACHINES

CONEC[®]

TECHNOLOGY IN CONNECTORS[™]





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

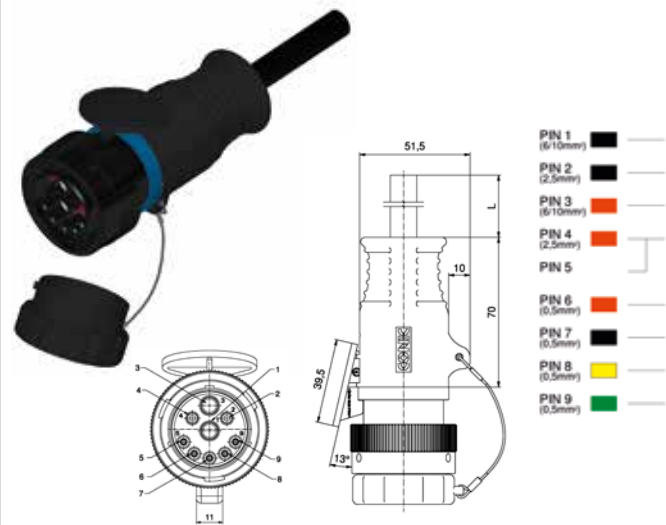
Basic material									
Contact	Copper alloy								
Contact plating	HDP: Ni / JPT: Sn								
Contact carrier	HDP: Thermoplast / JPT: PBT ASA GF30								
Overmould	TPU, UL94 V-0, black								
Landing plate (HDP)	PA6.6 UL94 V-0, black								
Protective cover (HDP26)	PA6.6 UL94 V-0, black								
Corrugated 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	<table> <tr> <td>600P</td><td>1000P:</td></tr> <tr> <td>2 x 6 mm²</td><td>2 x 10 mm² +</td></tr> <tr> <td>2 x 2,5 mm² +</td><td>2 x 2,5 mm² +</td></tr> <tr> <td>4 x 0,5 mm²</td><td>4 x 0,5 mm²</td></tr> </table>	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
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

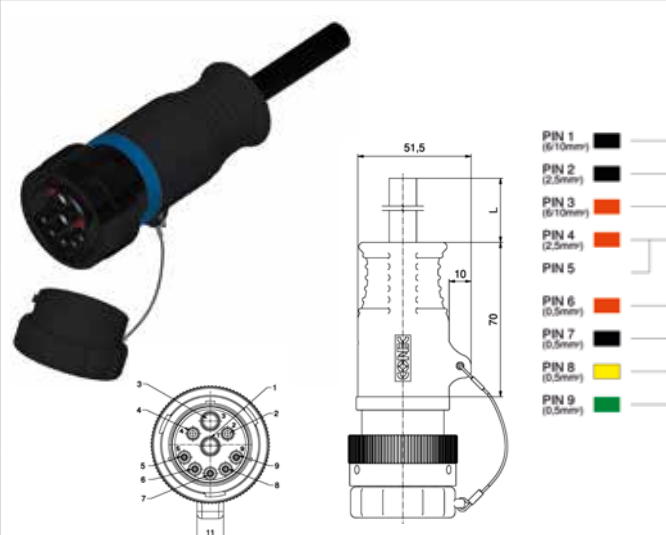
Contact assignment



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	2	2x6 2x2,5 4x0,5	✓	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	HDP26-24-91-S-L1/1000P/2m		55-10007	
			5	2x10 2x2,5 4x0,5		HDP26-24-91-S-L1/1000P/5m	55-10008
			10	HDP26-24-91-S-L1/1000P/10m		55-10009	

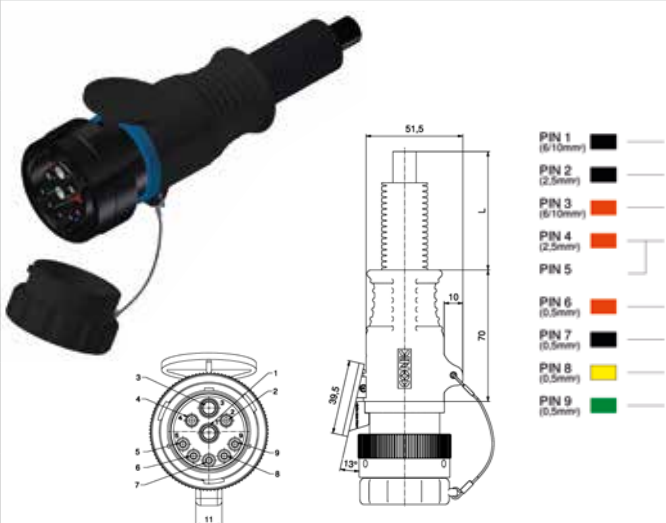
600P: 2 x 6 mm² [25 A] +
2 x 2.5 mm² [15 A] +
4 x 0.5 mm² [5 A]
1000P: 2 x 10 mm² [35 A] +
2 x 2.5 mm² [15 A] +
4 x 0.5 mm² [5 A]

PUR hybrid cable



9	max. 32 V DC	600P	2	2x6 2x2,5 4x0,5	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	2x10 2x2,5 4x0,5	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

PUR hybrid cable with corrugated tube



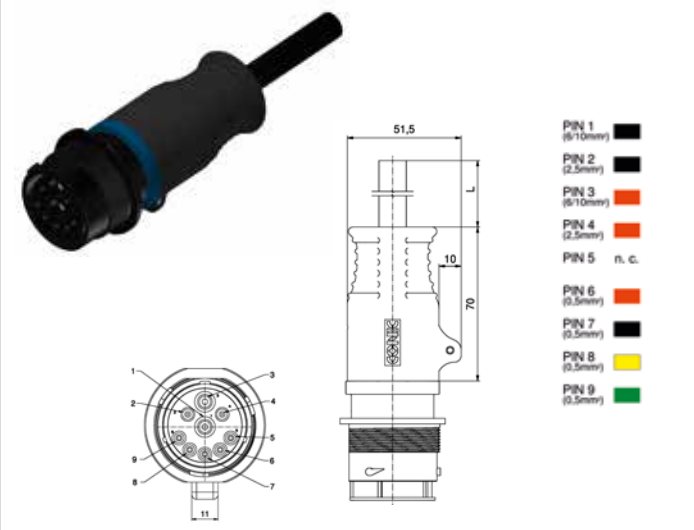
9	max. 32 V DC	600P	2	✓	HDP26-24-91-S-L1-W/600P/2m	55-10018	
			5		2x6 2x2,5 4x0,5	HDP26-24-91-S-L1-W/600P/5m	55-10021
			10		HDP26-24-91-S-L1-W/600P/10m	55-10022	
		1000P	2		HDP26-24-91-S-L1-W/1000P/2m	55-10047	
			5		2x10 2x2,5 4x0,5	HDP26-24-91-S-L1-W/1000P/5m	55-10048
			10		HDP26-24-91-S-L1-W/1000P/10m	55-10049	

ISOBUS CONNECTORS OVERMOULDED Open end cable

Male connector HDP

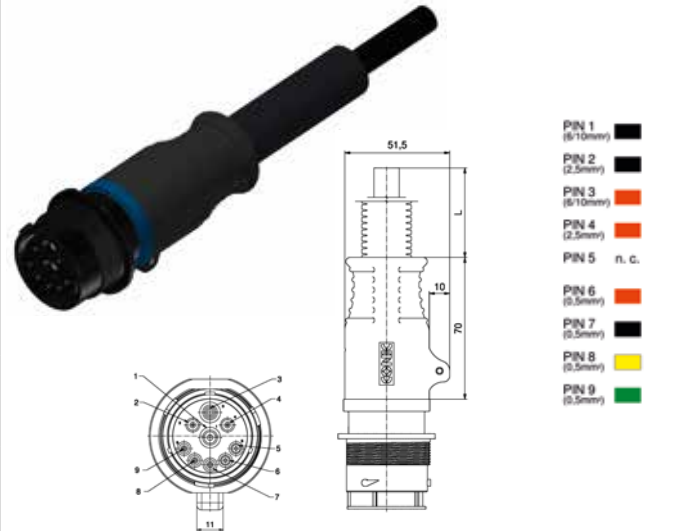
PUR hybrid cable

Contact assignment

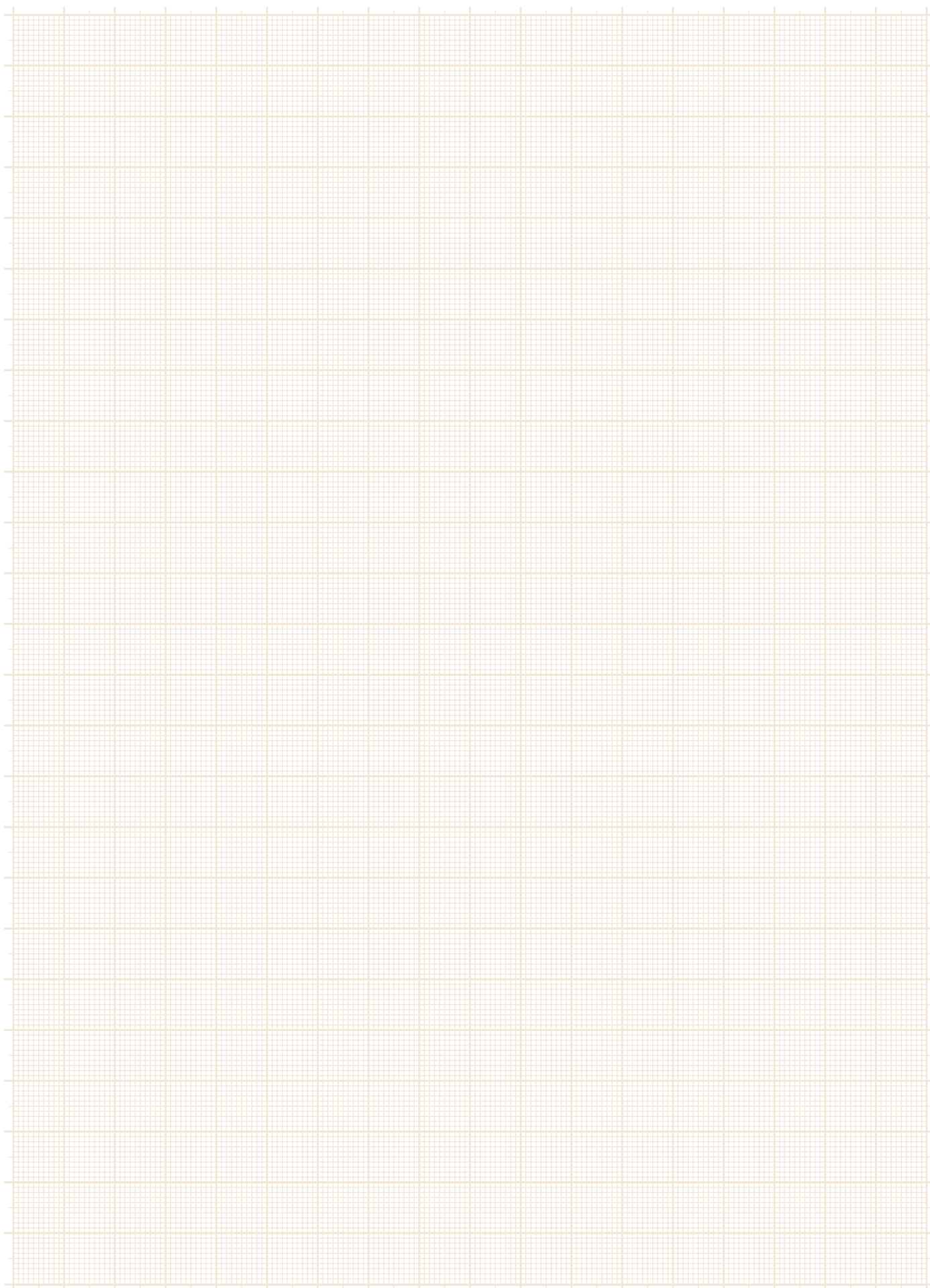


No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Wire cross section [mm²]	Landing plate		
						Description	Part No.
9	max. 32 V DC	600P	2	2x6 2x2,5 4x0,5	600P: 2 x 6 mm² [25 A] + 2 x 2.5 mm² [15 A] + 4 x 0.5 mm² [5 A] 1000P: 2 x 10 mm² [35 A] + 2 x 2.5 mm² [15 A] + 4 x 0.5 mm² [5 A]	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	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	

PUR hybrid cable with corrugated tube



9	max. 32 V DC	600P	2		HDP24-24-91-P-W/600P/2m	55-10029
			5	2 x 6 2 x 2,5 4 x 0,5	HDP24-24-91-P-W/600P/5m	55-10030
			10		HDP24-24-91-P-W/600P/10m	55-10031
		1000P	2		HDP24-24-91-P-W/1000P/2m	55-10032
			5	2 x 10 2 x 2,5 4 x 0,5	HDP24-24-91-P-W/1000P/5m	55-10033
			10		HDP24-24-91-P-W/1000P/10m	55-10034



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

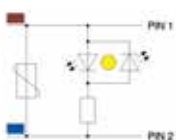
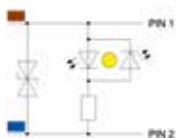
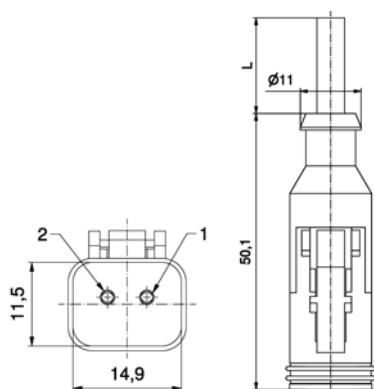
Basic material	
Contact	Copper alloy
Contact plating	Ni
Contact carrier	Thermoplast
Overmould	TPU, UL94, translucent
Sealing	Silicone
Technical Data	
Rated voltage	with LED and protection circuit [B]: max. 12 V AC/ 24 V DC with LED and protection circuit [E]: max. 24 V AC/30 V DC with LED and protection 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



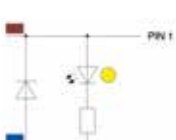
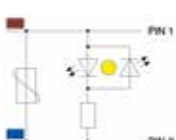
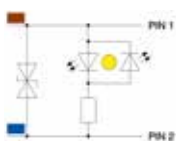
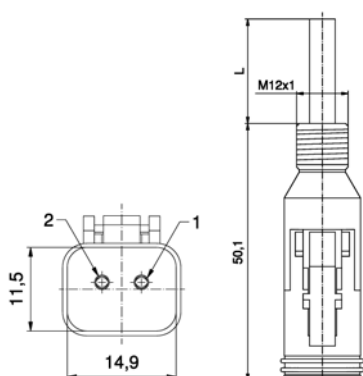
No. of poles	Type of protection circuit	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm ²]	Description	Part No.
2	B	12 V AC / 24 V DC	8	2	PUR 2 x 0,75		DT06-2S-B/K1/0.75/2m	55-00376
				5			DT06-2S-B/K1/0.75/5m	55-00377
				10			DT06-2S-B/K1/0.75/10m	55-00378
	G	8 - 22 V AC / 32 V DC		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		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= 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



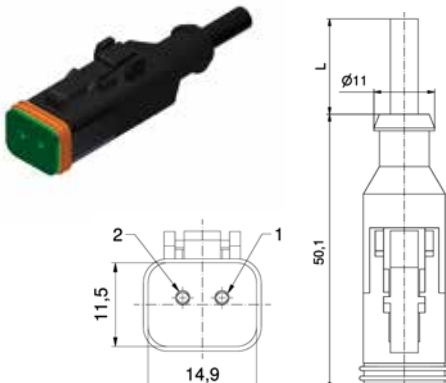
2	B	12 V AC / 24 V DC	8	2	PUR 2 x 0,75		DT06-2SG-B/K1/0.75/2m	55-00379
				5			DT06-2SG-B/K1/0.75/5m	55-00380
				10			DT06-2SG-B/K1/0.75/10m	55-00381
	G	8 - 22 V AC / 32 V DC		2			DT06-2SG-G/K1/0.75/2m	55-00763
				5			DT06-2SG-G/K1/0.75/5m	55-00764
				10			DT06-2SG-G/K1/0.75/10m	55-00765
	E	8 - 24 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		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

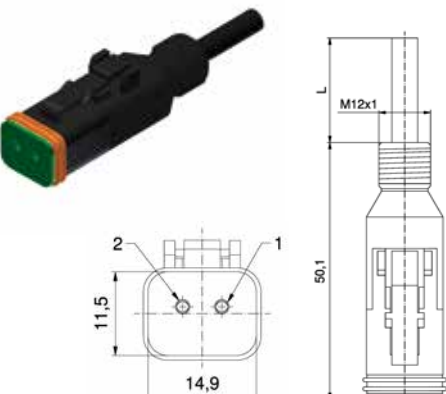
DT06, 2-pos.
Socket contacts

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	8	2	PUR	2 x 0,75	DT06-2S-A/K1/0.75/2m	55-00388
					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

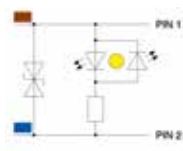
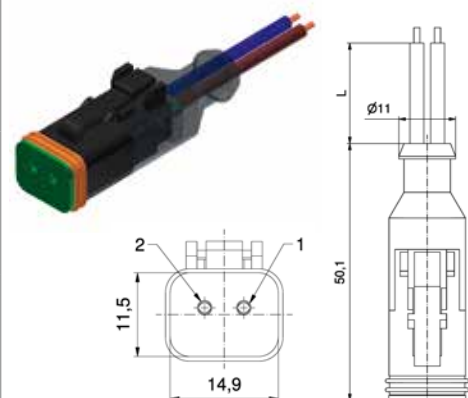
		2	10 - 230 V AC/ DC	8	2	PUR	2 x 0,75	DT06-2SG-A/K1/0.75/2m	55-00391
					5			DT06-2SG-A/K1/0.75/5m	55-00392
					10			DT06-2SG-A/K1/0.75/10m	55-00393

VALVE CONNECTORS DT-Series

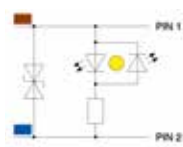
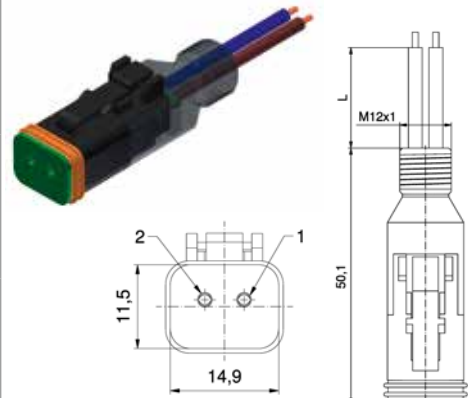
DT06, 2-pos.
Socket contacts, single wire

LED-protection circuit

Contact assignment



LED-protection circuit, M12 thread



No. of poles	Type of protection circuit	Rated voltage [V]	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
				5			DT06-2SL-B/A1/0.75/5m	55-00561
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
				5			DT06-2SLG-B/A1/0.75/5m	55-00563

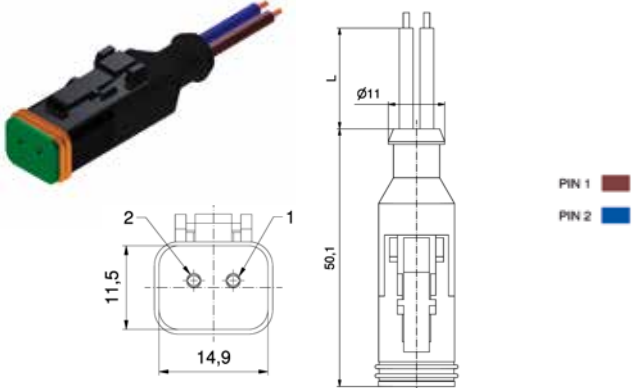
Type of protection circuit DT06 2-pos.
single wire:
• B= Suppressordiode + 2x LED yellow
Additional types of protection circuit upon
request
Technical information look at page 56 + 57

VALVE CONNECTORS DT-Series

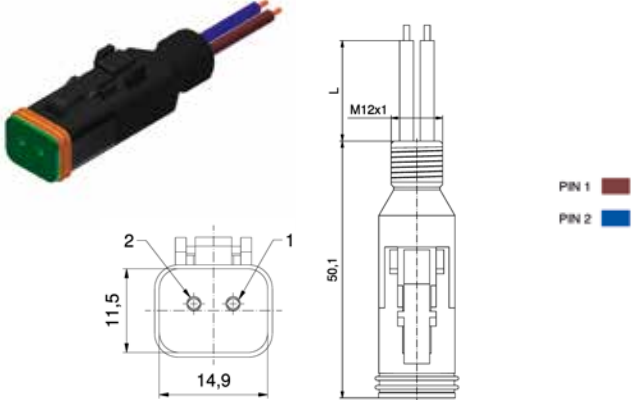
DT06, 2-pos.
Socket contacts, single wire

Without LED-protection circuit

Contact assignment

		No. of poles	Rated voltage [A]	Current rating [A]	Wire length = L [m]	Wire quality	Wire cross section [mm²]	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

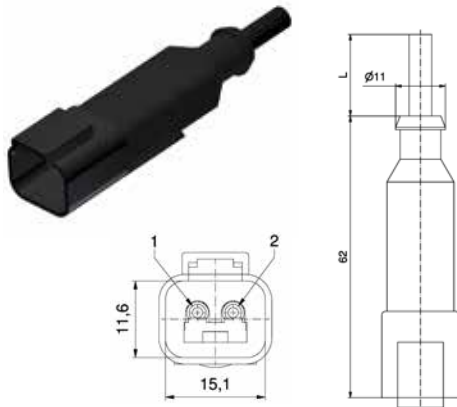
Without LED-protection circuit, M12 thread

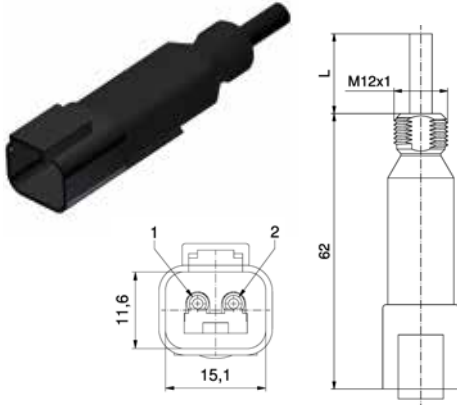
	2	10 - 230 V AC/ DC	8	2	PVC	2 x 0,75		DT06-2SLG-A/A1/0.75/0,5m	55-00567
								DT06-2SLG-A/A1/0.75/2m	55-00568
								DT06-2SLG-A/A1/0.75/5m	55-00569

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.	Rat.	Cur	Cab.	Cab.	Wir.	Description	Part No.
		2	10 - 230 V AC/ DC	8	5	PUR	2 x 0,75	DT04-2P-A/K1/0.75/2m	55-00448	
								DT04-2P-A/K1/0.75/5m	55-00449	
								DT04-2P-A/K1/0.75/10m	55-00450	

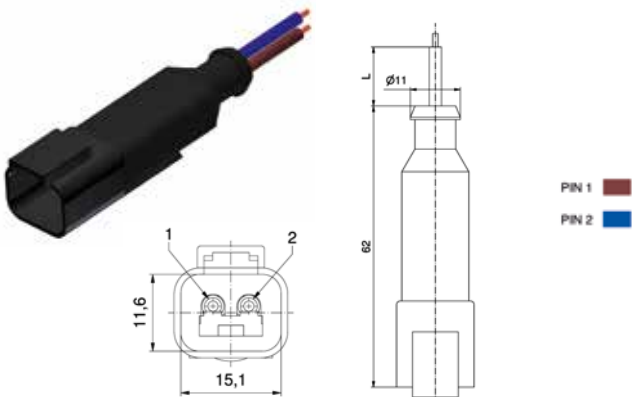
Without LED-protection circuit, M12 thread										
		2	10 - 230 V AC/ DC	8	5	PUR	2 x 0,75	DT04-2PG-A/K1/0.75/2m	55-00451	
								DT04-2PG-A/K1/0.75/5m	55-00452	
								DT04-2PG-A/K1/0.75/10m	55-00453	

VALVE CONNECTORS DT-Series

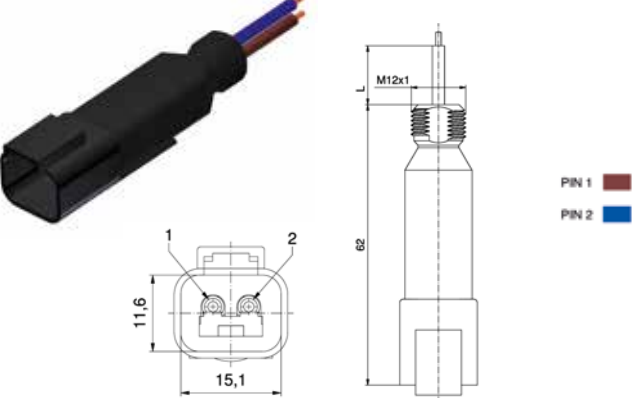
DT04, 2-pos.
Plug contacts, single wire

Without LED-protection circuit

Contact assignment

Description		Part No.
	DT04-2PL-A/A1/0.75/0,5m	55-00576
	DT04-2PL-A/A1/0.75/2m	55-00577
	DT04-2PL-A/A1/0.75/5m	55-00578

Without LED-protection circuit, M12 thread

	DT04-2PLG-A/A1/0.75/0,5m	55-00579
	DT04-2PLG-A/A1/0.75/2m	55-00580
	DT04-2PLG-A/A1/0.75/5m	55-00581

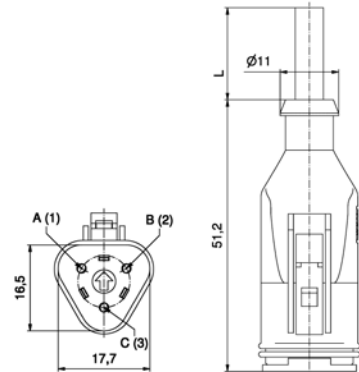
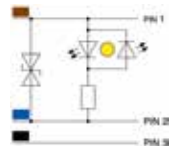
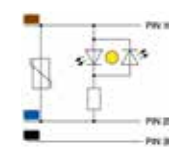
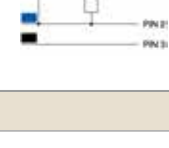
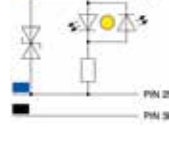
Protection circuits DT04 (2-, 3-pos.) upon request
Technical information look at page 56 + 57

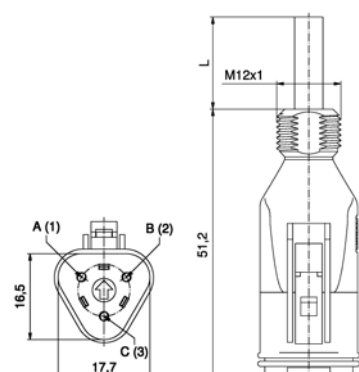
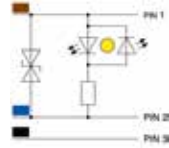
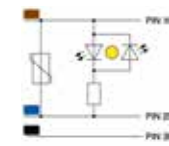
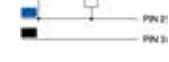
VALVE CONNECTORS DT-Series

DT06, 3-pos. Socket contacts

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	Contact assignment	No.	Type	Rate	Cur	Cab	Cab	Wire	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	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	
		3	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	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	

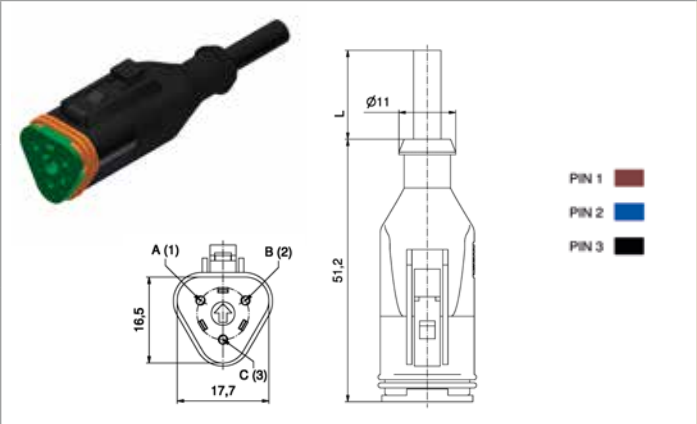
LED-protection circuit, M12 thread										
 	   	3	B	12 V AC / 24 V DC	8	2	PUR	3 x 0,75	DT06-3SG-B/K1/0.75/2m	55-00853
						5			DT06-3SG-B/K1/0.75/5m	55-00854
						10			DT06-3SG-B/K1/0.75/10m	55-00855
			G	8 - 22 V AC / 32 V DC	2	DT06-3SG-G/K1/0.75/2m			55-00775	
					5	DT06-3SG-G/K1/0.75/5m			55-00776	
					10	DT06-3SG-G/K1/0.75/10m			55-00777	
		3	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	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	

VALVE CONNECTORS DT-Series

DT06, 3-pos. Socket contacts

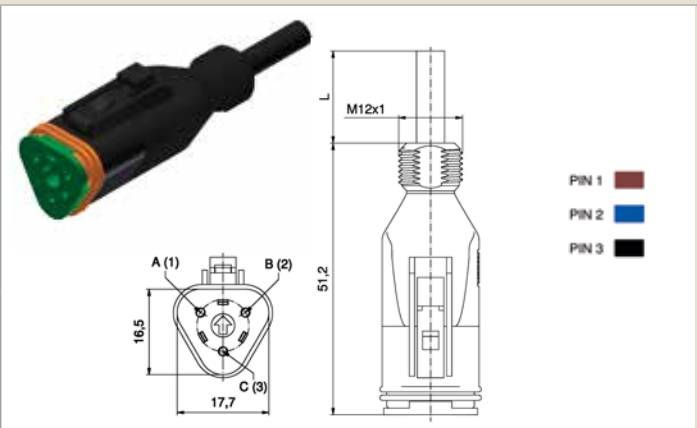
Without LED-protection circuit

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	8	2	PUR	3 x 0,75	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



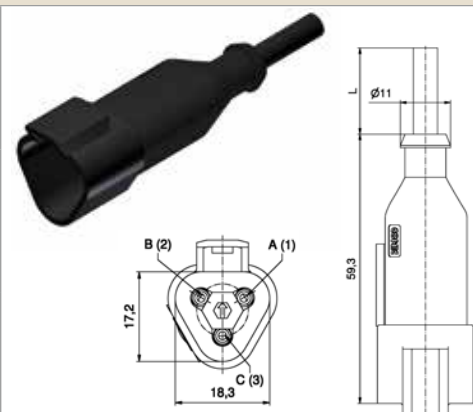
3	10 - 230 V AC/ DC	8	2	PUR	3 x 0,75	DT06-3SG-A/K1/0.75/2m	55-00829
			5			DT06-3SG-A/K1/0.75/5m	55-00830
			10			DT06-3SG-A/K1/0.75/10m	55-00831

VALVE CONNECTORS DT-Series

DT04, 3-pos. Plug contacts

Without LED-protection circuit

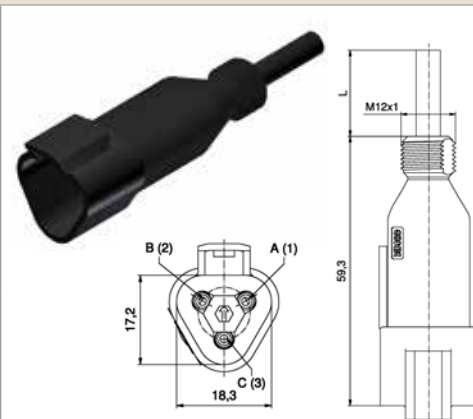
Contact assignment



PIN 1
PIN 2
PIN 3

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

Without LED-protection circuit, M12 thread



PIN 1
PIN 2
PIN 3

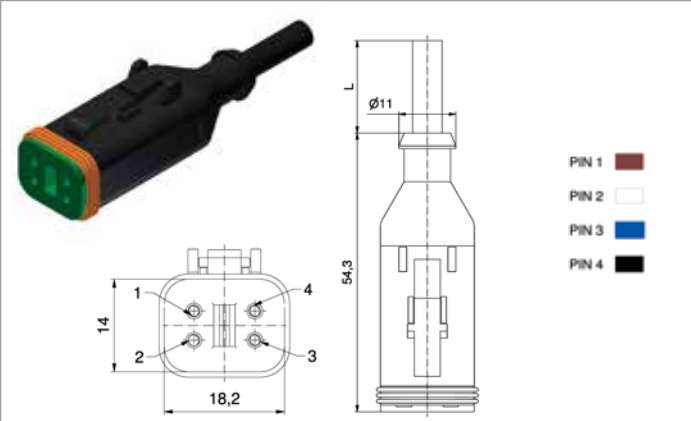
No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]	Description	Part No.
3	10 - 230 V AC/ DC	8	2	PUR	3 x 0,75	DT04-3P-A/K1/0.75/2m	55-00832
			5			DT04-3P-A/K1/0.75/5m	55-00833
			10			DT04-3P-A/K1/0.75/10m	55-00834
3	10 - 230 V AC/ DC	8	2	PUR	3 x 0,75	DT04-3PG-A/K1/0.75/2m	55-00835
			5			DT04-3PG-A/K1/0.75/5m	55-00836
			10			DT04-3PG-A/K1/0.75/10m	55-00837

VALVE CONNECTORS DT-Series

DT06, 4-pos.
Socket contacts

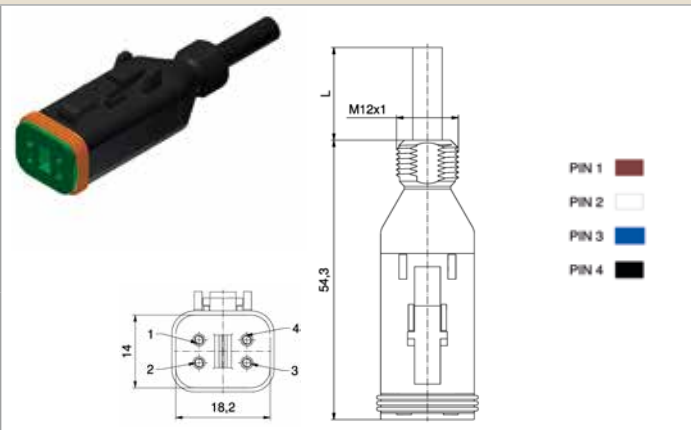
Without LED-protection circuit

Contact assignment



No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]	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



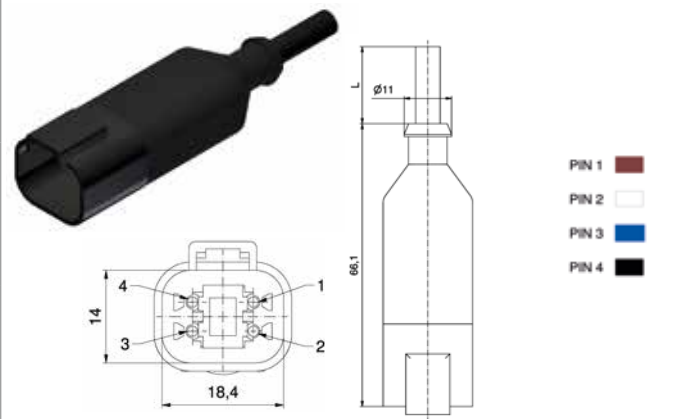
4	10 - 230 V AC/ DC	7	2	PUR	4 x 0,75	DT06-4SG-A/K1/0.75/2m	55-00841
			5			DT06-4SG-A/K1/0.75/5m	55-00842
			10			DT06-4SG-A/K1/0.75/10m	55-00843

VALVE CONNECTORS DT-Series

DT04, 4-pos. Plug contacts

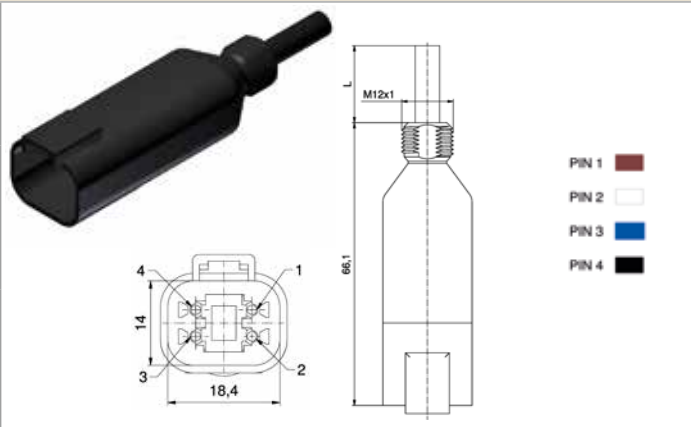
Without LED-protection circuit

Contact assignment



No. of poles	Rated voltage [V]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]	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



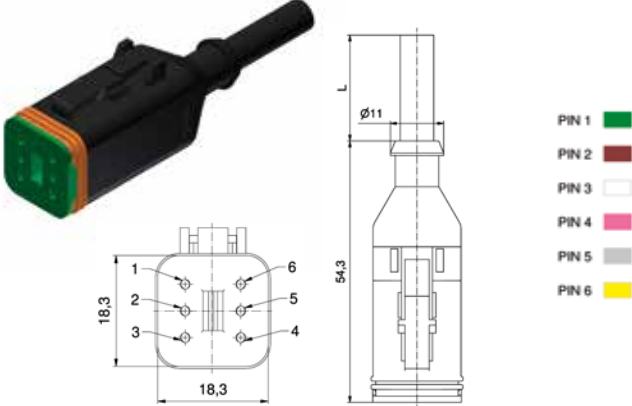
4	10 - 230 V AC/ DC	7	2	PUR	4 x 0,75	DT04-4PG-A/K1/0.75/2m	55-00847
			5			DT04-4PG-A/K1/0.75/5m	55-00848
			10			DT04-4PG-A/K1/0.75/10m	55-00849

VALVE CONNECTORS DT-Series

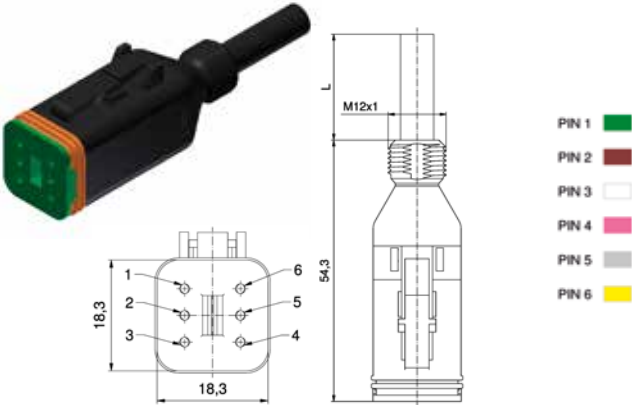
DT06, 6-pos. Socket contacts

Without LED-protection circuit

Contact assignment

		No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]	Description	Part No.
	6	10 - 230 V AC/ DC	6	5	PUR	6 x 0,75		DT06-6S-A/K1/0.75/2m	55-00501
								DT06-6S-A/K1/0.75/5m	55-00502
								DT06-6S-A/K1/0.75/10m	55-00503

Without LED-protection circuit, M12 thread

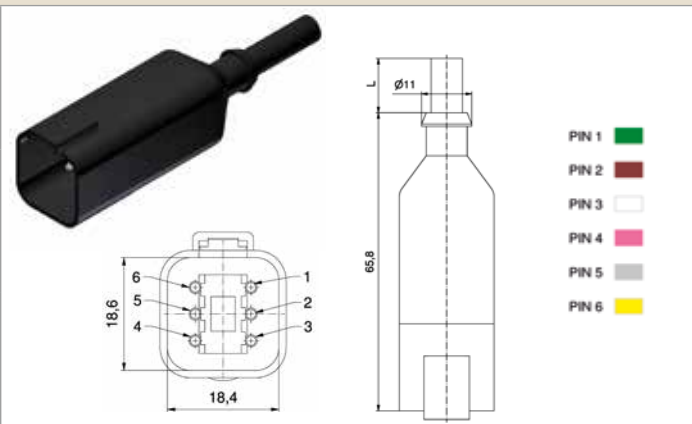
	6	10 - 230 V AC/ DC	6	5	PUR	6 x 0,75		DT06-6SG-A/K1/0.75/2m	55-00504
								DT06-6SG-A/K1/0.75/5m	55-00505
								DT06-6SG-A/K1/0.75/10m	55-00506

VALVE CONNECTORS DT-Series

DT04, 6-pos. Plug contacts

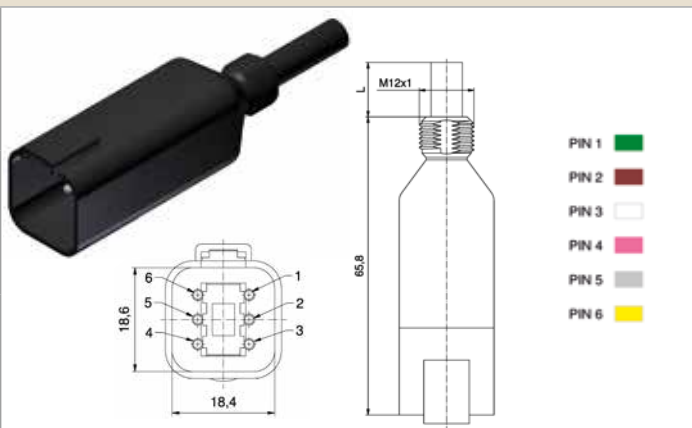
Without LED-protection circuit

Contact assignment



No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]	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



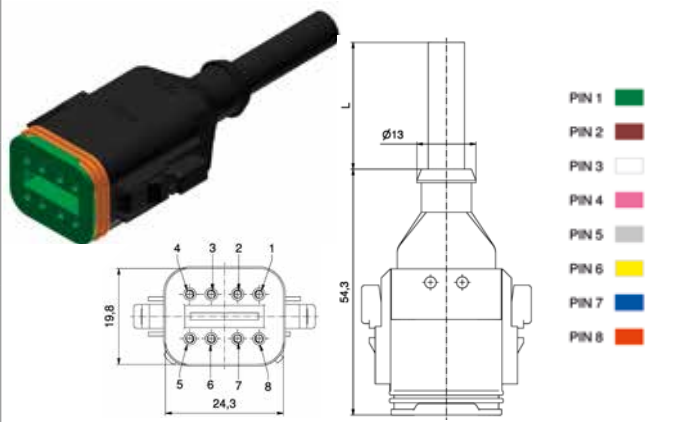
6	10 - 230 V AC/ DC	6	2	PUR	6 x 0,75	DT04-6PG-A/K1/0.75/2m	55-00510
			5			DT04-6PG-A/K1/0.75/5m	55-00511
			10			DT04-6PG-A/K1/0.75/10m	55-00512

VALVE CONNECTORS DT-Series

DT06, 8-pos. Socket contacts

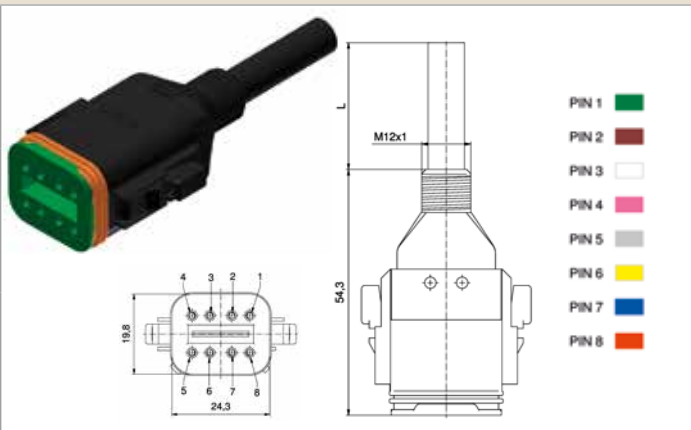
Without LED-protection circuit

Contact assignment



No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]	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

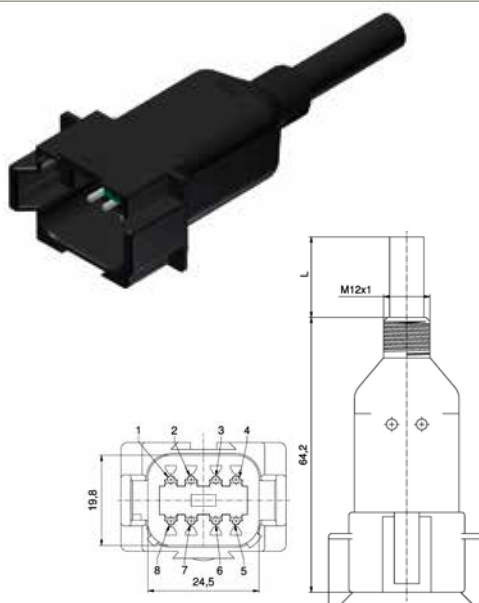
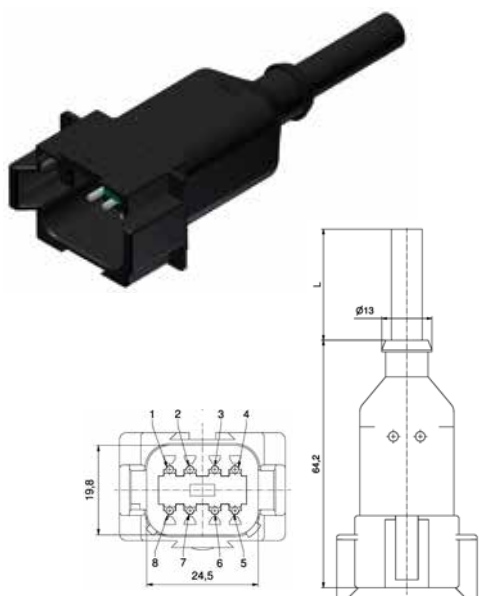
Without LED-protection circuit

Contact assignment

No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]	Description	Part No.
8	10 - 230 V AC/ DC	6	2	PUR	8 x 0,75	DT04-8AP-A/K1/0.75/2m	55-00529
			5			DT04-8AP-A/K1/0.75/5m	55-00530
			10			DT04-8AP-A/K1/0.75/10m	55-00531

Without LED-protection circuit, M12 thread

8	10 - 230 V AC/ DC	6	2	PUR	8 x 0,75	DT04-8APG-A/K1/0.75/2m	55-00535
			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, 12-pos. Socket contacts

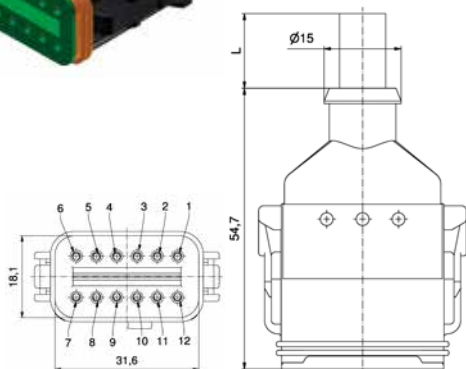
Without LED-protection circuit

Contact assignment

No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]	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	10			DT06-12AS-A/K1/0.75/10m	55-00555

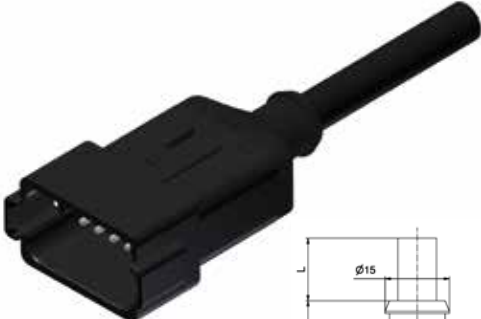


- PIN 1 ■
- PIN 2 ■
- PIN 3 ■
- PIN 4 ■
- PIN 5 ■
- PIN 6 ■
- PIN 7 ■
- PIN 8 ■
- PIN 9 ■
- PIN 10 ■
- PIN 11 ■
- PIN 12 ■

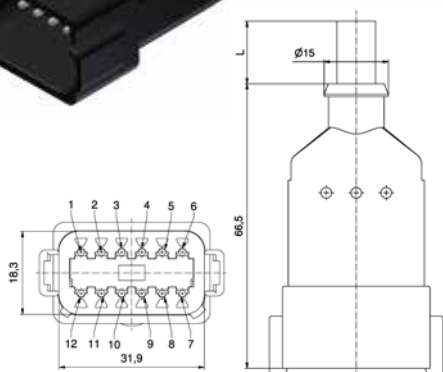


DT04, 12-pos. Plug contacts

Without LED-protection circuit

	12	10 - 230 V AC/ DC	5	PUR	12 x 0,75	DT04-12AP-A/K1/0.75/2m	55-00556
						DT04-12AP-A/K1/0.75/5m	55-00557
			10			DT04-12AP-A/K1/0.75/10m	55-00558

- PIN 1 ■
- PIN 2 ■
- PIN 3 ■
- PIN 4 ■
- PIN 5 ■
- PIN 6 ■
- PIN 7 ■
- PIN 8 ■
- PIN 9 ■
- PIN 10 ■
- PIN 11 ■
- PIN 12 ■



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

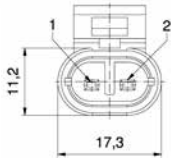
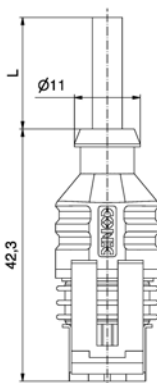
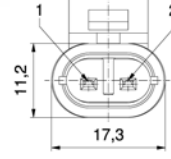
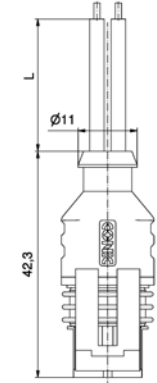
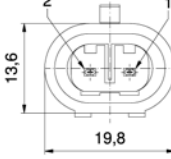
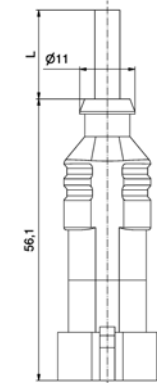
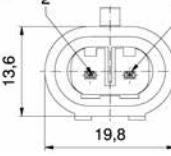
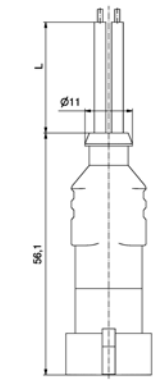
VALVE CONNECTORS SUPERSEAL-SERIES

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.

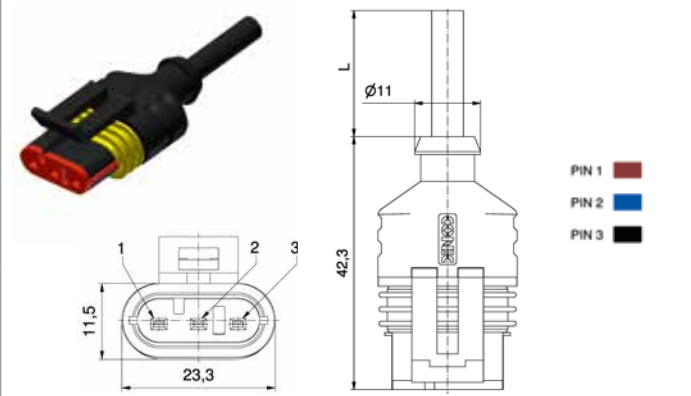
Contact assignment							No.	Rate	Curr	Cab	Cab	Wire	Description	Part No.
  11,2 17,3	 L Ø11 42,3	 PIN 1 PIN 2	2	max. 24 V DC	8	2	PUR	2 x 0,75	VSS1.5-2S-A/K1/0.75/2m	55-00470				
						5			VSS1.5-2S-A/K1/0.75/5m	55-00471				
						10			VSS1.5-2S-A/K1/0.75/10m	55-00472				
Socket contacts, single wire														
  11,2 17,3	 L Ø11 42,3	 PIN 1 PIN 2	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														
  13,6 19,8	 L Ø11 56,1	 PIN 1 PIN 2	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														
  13,6 19,8	 L Ø11 56,1	 PIN 1 PIN 2	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.

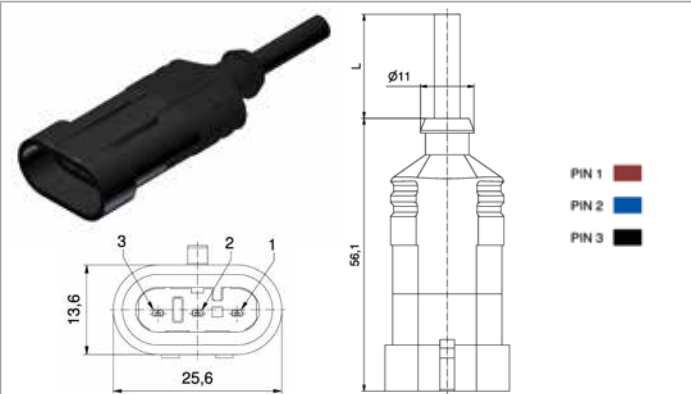
Socket contacts

Contact assignment



No. of poles	Rated voltage [V]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]	Description	Part No.
3	max. 24 V DC	8	2	PUR	3 x 0,75	VSS1.5-3S-A/K1/0.75/2m	55-00478
			5			VSS1.5-3S-A/K1/0.75/5m	55-00479
			10			VSS1.5-3S-A/K1/0.75/10m	55-00480

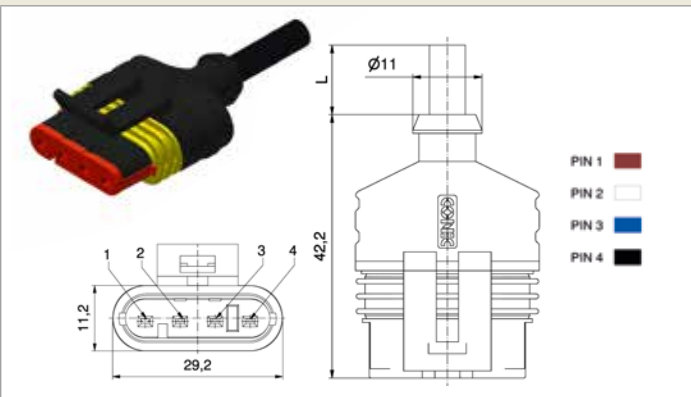
Plug contacts



3	max. 24 V DC	8	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

VSS 1.5 4-pos.

Socket contacts



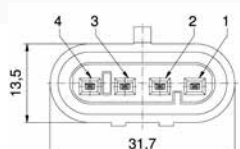
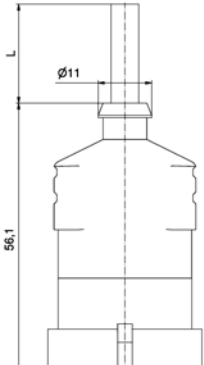
4	max. 24 V DC	7	2	PUR	4 x 0,75	VSS1.5-4S-A/K1/0.75/2m	55-00595
			5			VSS1.5-4S-A/K1/0.75/5m	55-00596
			10			VSS1.5-4S-A/K1/0.75/10m	55-00597

VALVE CONNECTORS Superseal-Series

VSS 1.5 4-pos.

Plug contacts

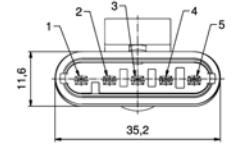
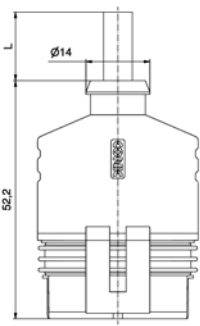
Contact assignment

   PIN 1 PIN 2 PIN 3 PIN 4	4	max. 24 V DC	7	2	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	

No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]
4	max. 24 V DC	7	2 5 10	PUR	4 x 0,75

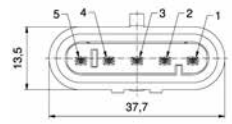
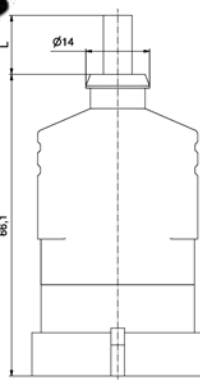
VSS 1.5 5-pos.

Socket contacts

   PIN 1  PIN 2  PIN 3  PIN 4  PIN 5 	2	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

No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]
5	max. 24 V DC	7	2 5 10	PUR	5 x 0,75

Plug contacts

   PIN 1  PIN 2  PIN 3  PIN 4  PIN 5 	2	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

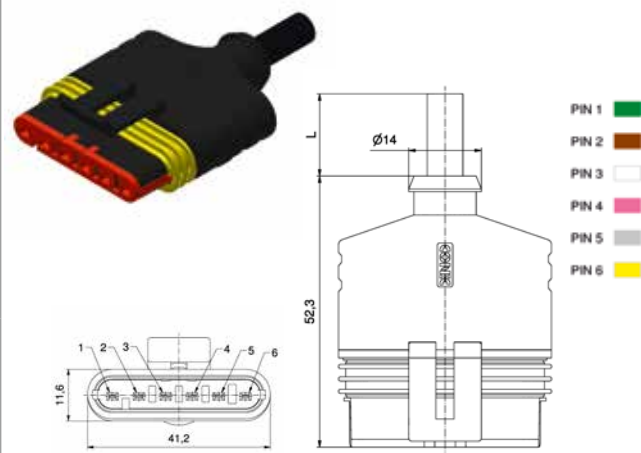
No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]
5	max. 24 V DC	7	2 5 10	PUR	5 x 0,75

VALVE CONNECTORS Superseal-Series

VSS 1.5
6-pos.

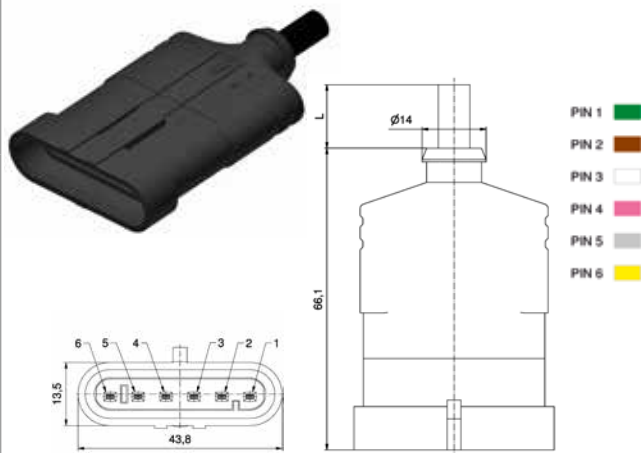
Socket contacts

Contact assignment



No. of poles	Rated voltage [A]	Current rating [A]	Cable length = L [m]	Cable quality	Wire cross section [mm²]	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

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

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

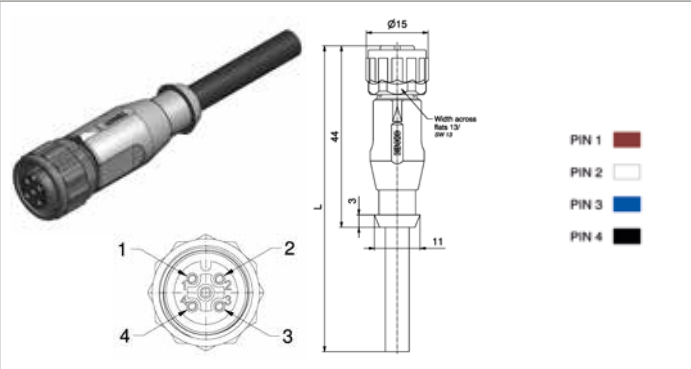
M12X1 CONNECTORS OVERMOULDED

Plastic coupling nut

Female connector axial

TPU, UL, black, Li9Y11Y

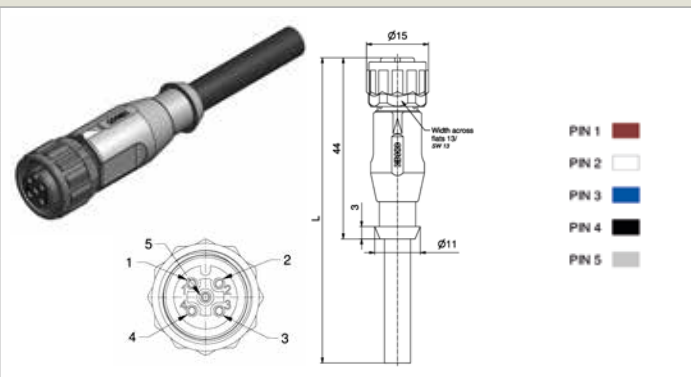
Contact assignment



No. of poles	Rated voltage [V]	Current rating [A]	Cable length = L [m]	Wire cross section [mm²]	Description	Part No.
4	250 V	4	2	0.75	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

Additional wire cross sections and double ended variants on request

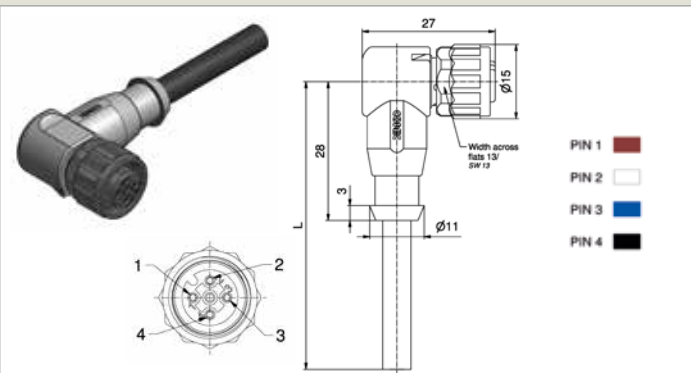
TPU, UL, black, Li9Y11Y



5	60 V	4	2	0.75	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

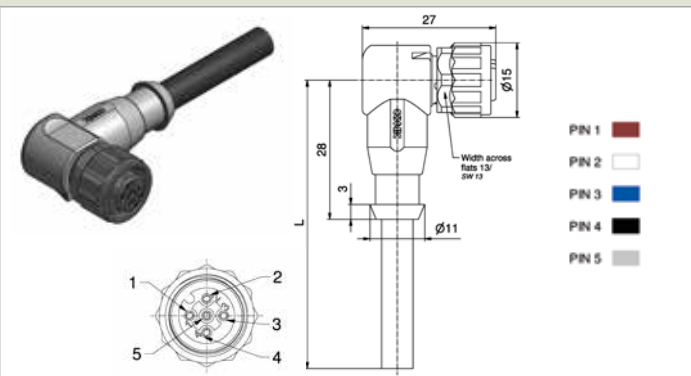
Female connector angled

TPU, UL, black, Li9Y11Y



4	250 V	4	2	0.75	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

TPU, UL, black, Li9Y11Y



5	60 V	4	2	0.75	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

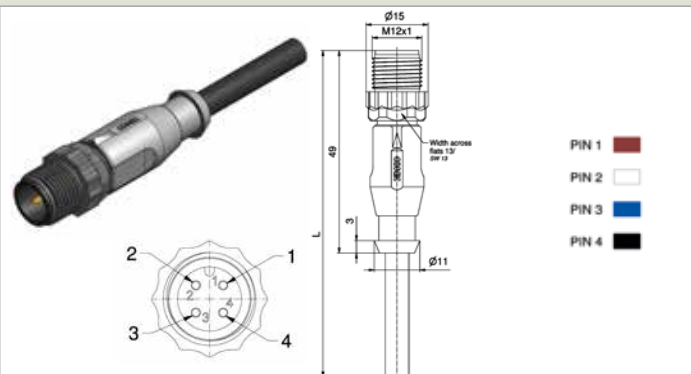
M12X1 CONNECTORS OVERMOULDED

Plastic coupling screw

Male connector axial

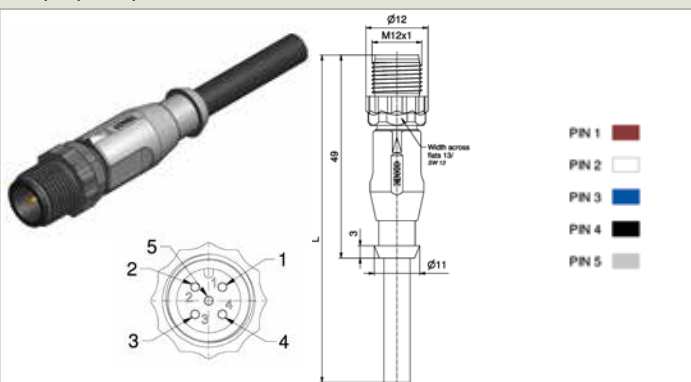
TPU, UL, black, Li9Y11Y

Contact assignment



No. of poles	Rated voltage [V]	Current rating [A]	Cable length = L [m]	Wire cross section [mm²]	Description	Part No.
4	250 V	4	2	0.75	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

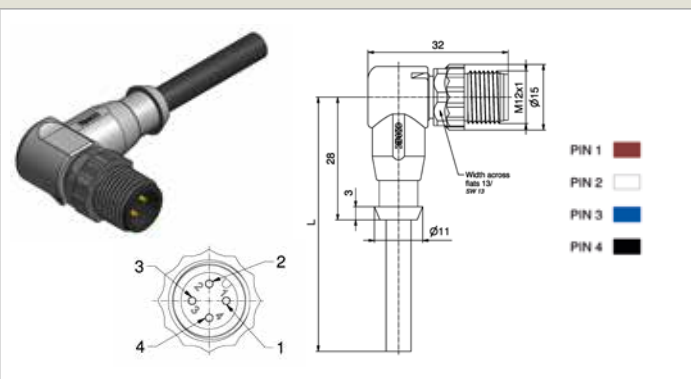
TPU, UL, black, Li9Y11Y



5	60 V	4	2	0.75	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

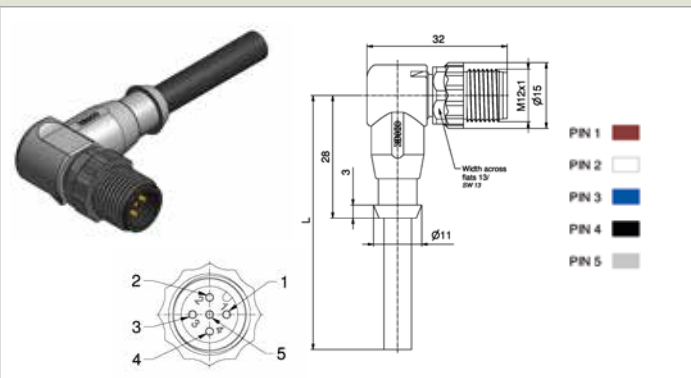
Male connector angled

TPU, UL, black, Li9Y11Y



4	250 V	4	2	0.75	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

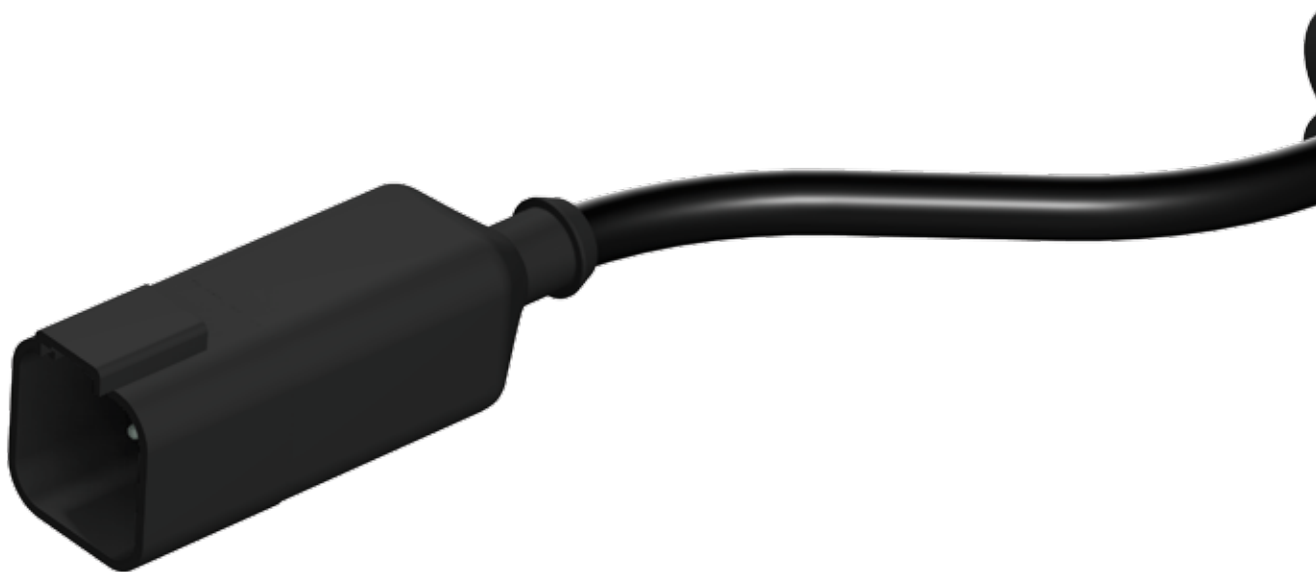
TPU, UL, black, Li9Y11Y



5	60 V	4	2	0.75	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

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					
 VSS - Series Type: S, M, L	<table><tr><td>1, 2</td><td>Type S</td><td>1, 2</td></tr><tr><td colspan="3"></td></tr></table>	1, 2	Type S	1, 2				 M8 - Series Type: S, M, L
1, 2	Type S	1, 2						
								
 DT - Series Type: S, M, L	<table><tr><td>1, 2, 3</td><td>Type M</td><td>1, 2, 3</td></tr><tr><td colspan="3"></td></tr></table>	1, 2, 3	Type M	1, 2, 3				 M12 - Series Type: S, M, L
1, 2, 3	Type M	1, 2, 3						
								
 ISOBUS - Series Type: L	<table><tr><td>1 (ISOBUS)</td><td>Type L</td><td>3, 4</td></tr><tr><td colspan="3"></td></tr></table>	1 (ISOBUS)	Type L	3, 4				 D-SUB - Series Type: S, M, L
1 (ISOBUS)	Type L	3, 4						
								

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

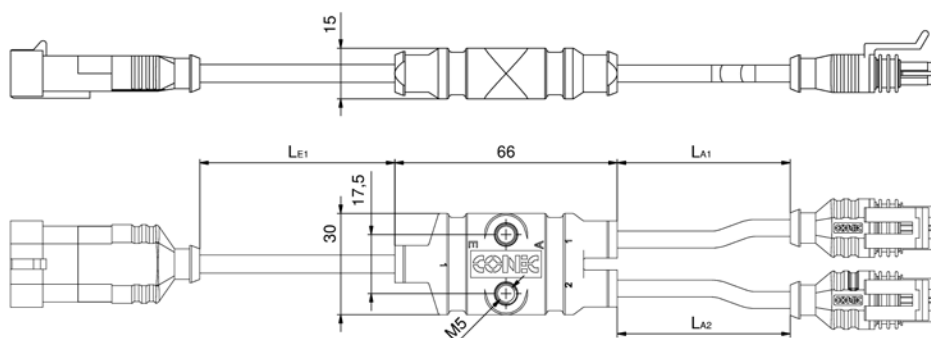
JUNCTION SYSTEM

Example

Type S

1 Entry / 2 Exits

Contact Assignment

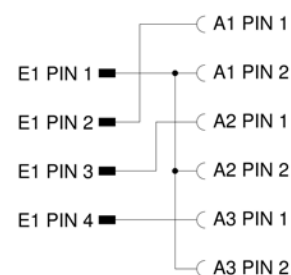
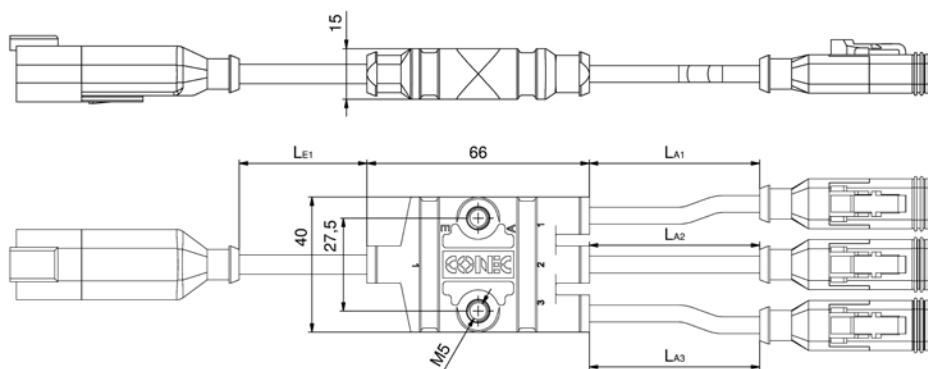


Entry _{E1-2}	Type	Length L_{E1-2} [m]	Distribution type	Exit _{A1-2}	Type	Length L_{A1-2} [m]	Article
E1	VSS1.5-3P-A	0,6	S	A1	VSS1.5-2S-A	0,6	55-20001
E2	–	–		A2	VSS1.5-2S-A	0,6	

Type M

1 Entry / 3 Exits

Contact Assignment

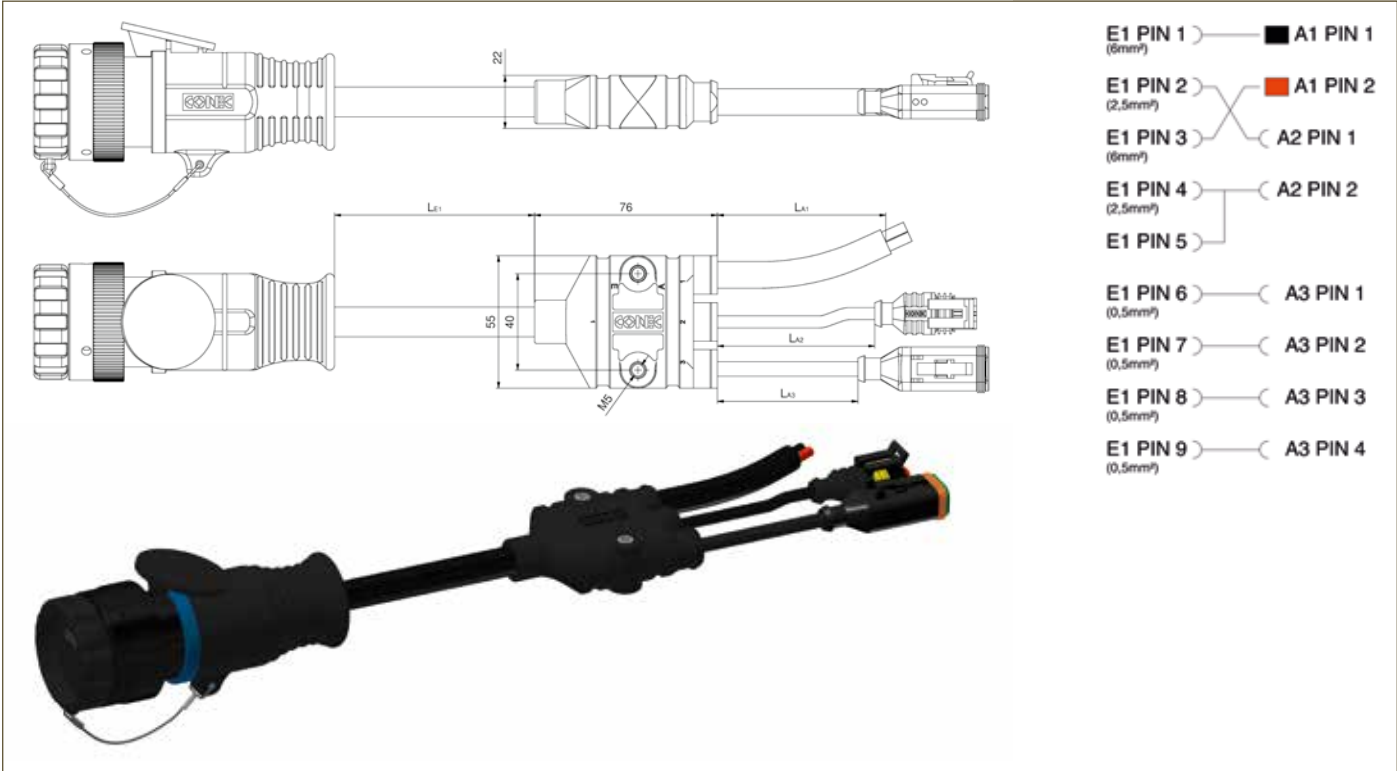


Entry _{E1-3}	Type	Length L_{E1-3} [m]	Distribution type	Exit _{A1-3}	Type	Length L_{A1-3} [m]	Article
E1	DT04-4P-A	0,6	M	A1	DT06-2S-B	0,6	55-20002
E2	–	–		A2	DT06-2S-B	0,6	
E3	–	–		A3	DT06-2S-B	0,6	

Type L

1 Entry / 3 Exits

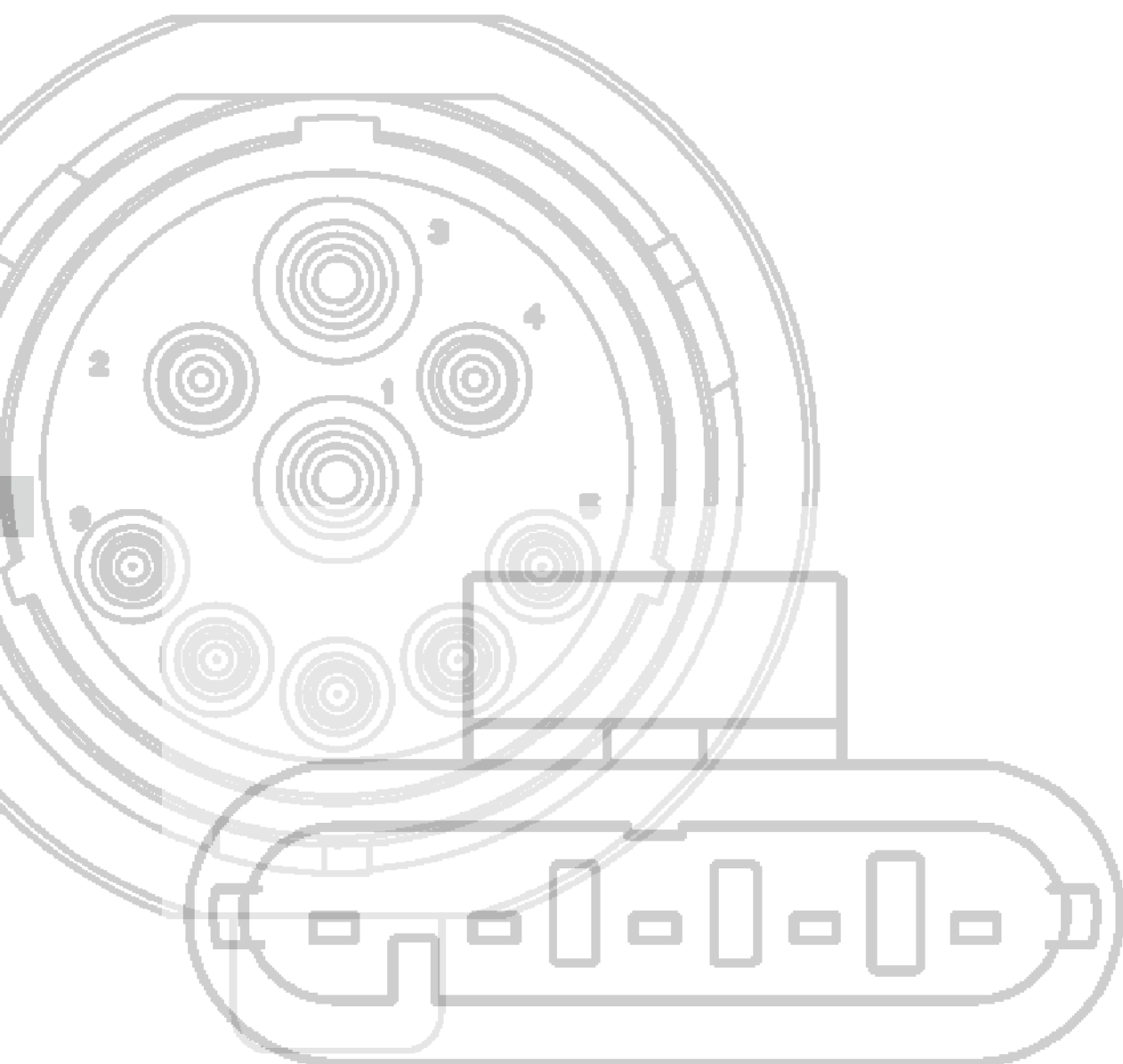
Contact Assignment

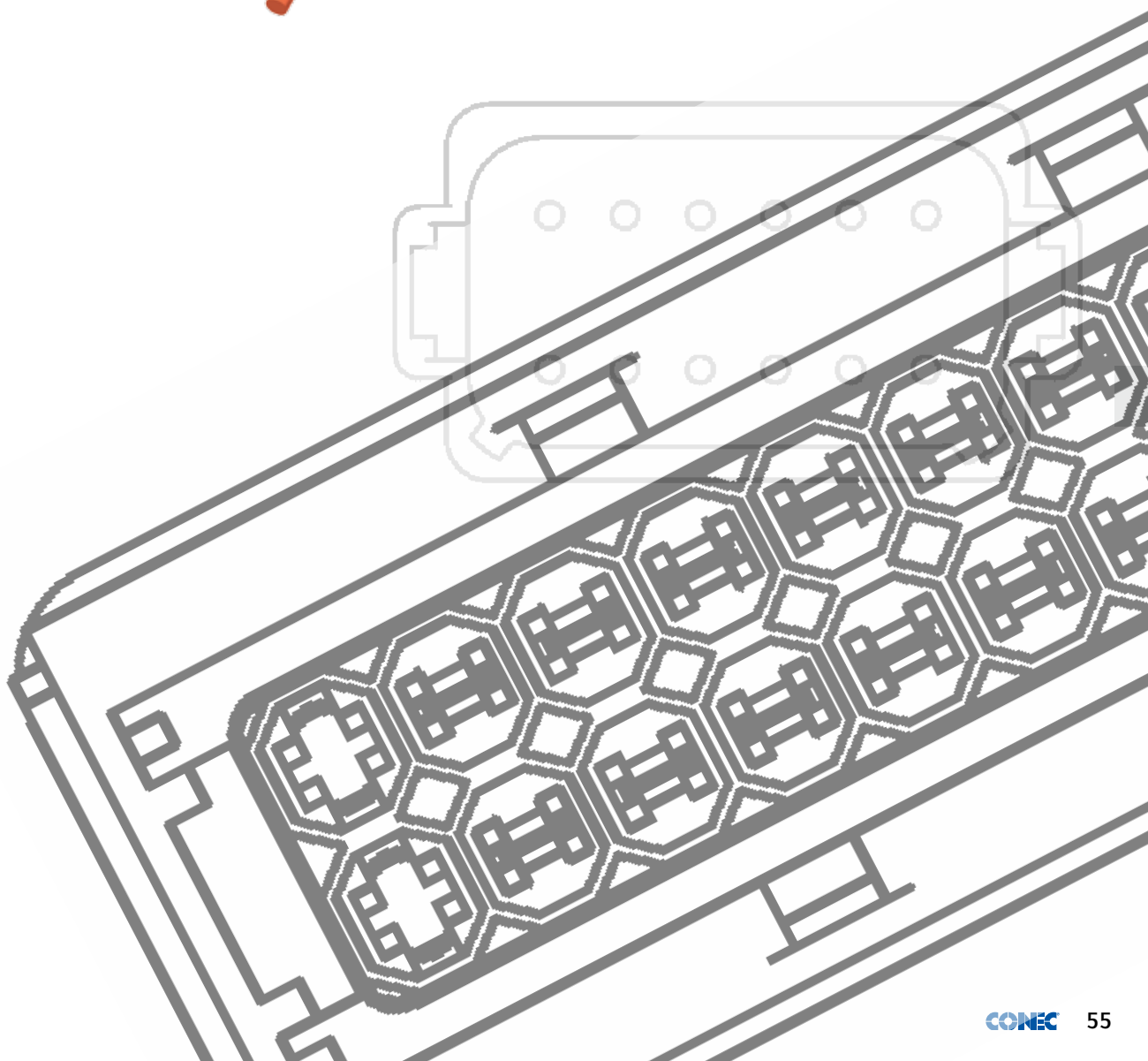
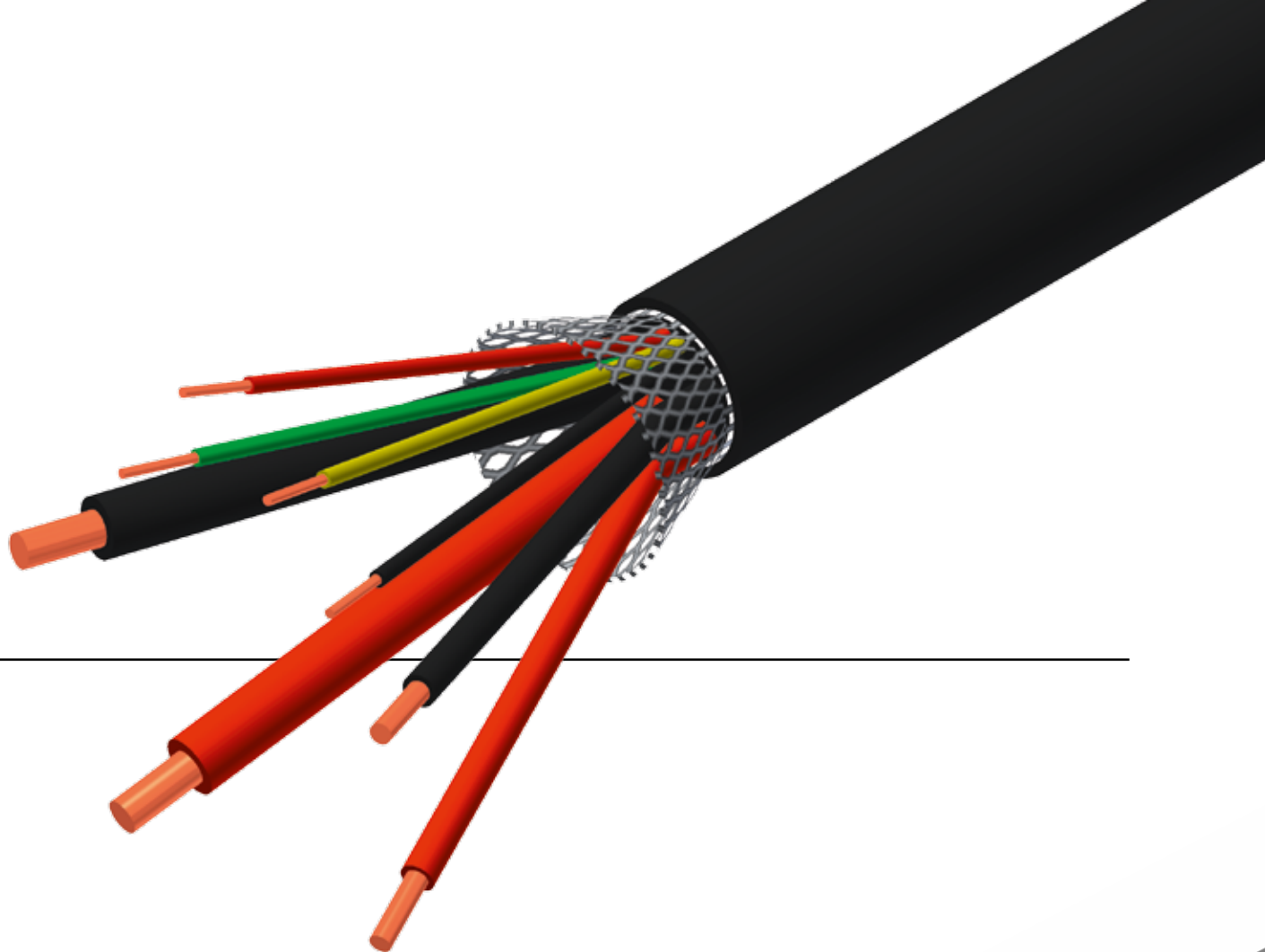


Entry E1	Type	Length L E1-3 [m]	Distribution type	Exit A1-4	Type	Length L A1-4 [m]	Article
E1	HDP26	2,5	L	A1	Leitung	1,2	55-20003
				A2	VSS1.5-2S-A	1,0	
				A3	DT06-4S-A	1,0	
				A4	—	—	

SECTION 6

TECHNICAL INFORMATION





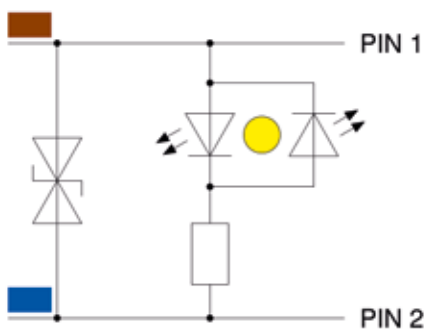
Protection circuits
2- and 3-pos. DT connectors

Protection circuits are currently available in 3 different versions.

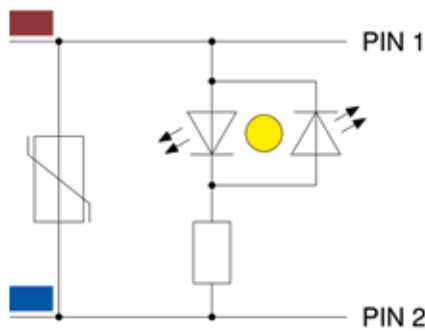
- 1) Protection circuit with suppressor diode + 2 LEDs (yellow)
- 2) Protection circuit with varistor + 2 LEDs (yellow)
- 3) Protection circuit with freewheeling diode + 1 LED (yellow)

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.

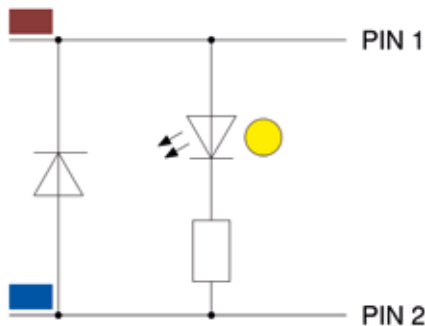
As a result of the faster response, suppressor diodes are perfectly suitable in areas of input / output interfaces and sensitive circuits.

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
• Drive technology • Engine management • Safety equipment such as airbags and stability control • Entertainment and comfort accessories • Controllers	Directly on • 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 [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	BR - WS - BL - SW - GR	781- K1 7500
			cULus 20549	BR - WS - BL - SW - GR	781- K1 750G
	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

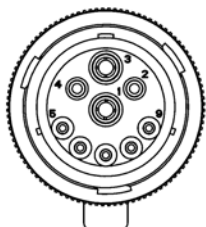


4x0.50 + 2x2.50 + 2x10.00	4x2x2	black	yes	BK - YE - GN - RD - BK - RD - BK - RD	ISO 600P: 781-BS0097
	4x2x2		yes	BK - YE - GN - RD - BK - RD - BK - RD	ISO 1000P: 781-BS0098

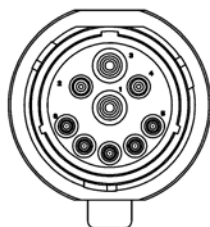
Overview pin assignment

ISOBUS - Connectors overmoulded, female/male

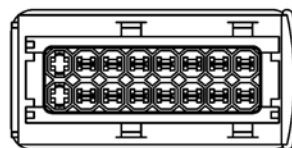
JPT - Connector



Female
9-pos.

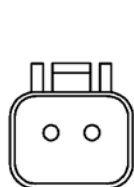


Male
9-pos.

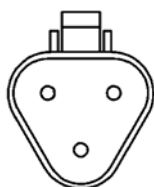


Female
16-pos.

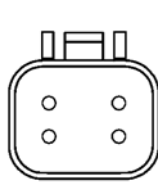
DT-Series 06 (Housing for socket contacts)



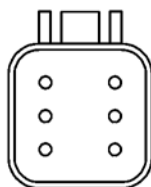
2-pos.



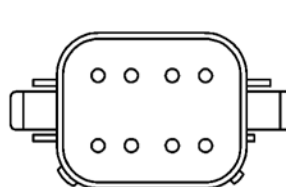
3-pos.



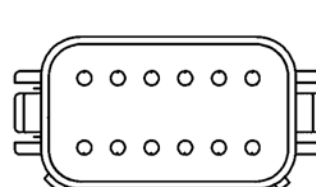
4-pos.



6-pos.



8-pos.
A-coded



12-pos.
A-coded

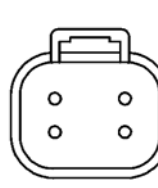
DT-Series 04 (Housing for plug contacts)



2-pos.



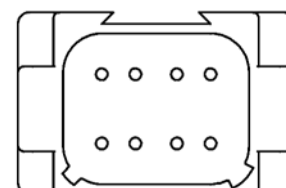
3-pos.



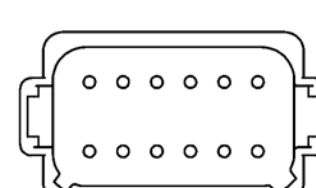
4-pos.



6-pos.



8-pos.
A-coded



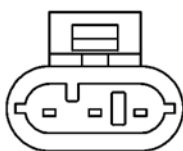
12-pos.
A-coded

Overview pin assignment

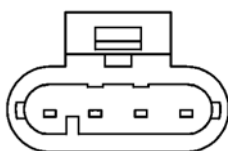
Superseal-series VSS1.5 (Housing for socket contacts)



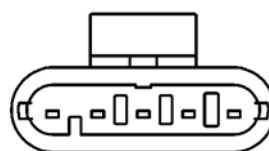
2-pos.



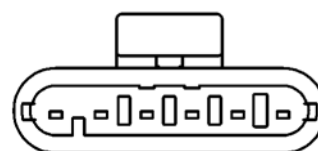
3-pos.



4-pos.

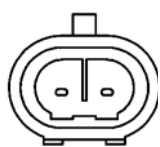


5-pos.

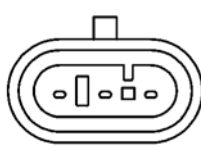


6-pos.

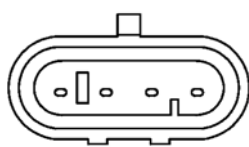
Superseal-series VSS1.5 (Housing for plug contacts)



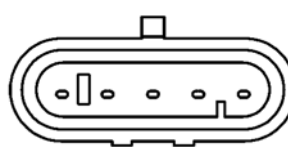
2-pos.



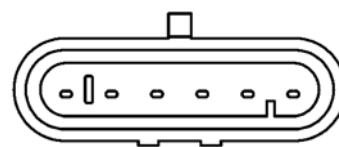
3-pos.



4-pos.

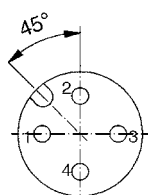


5-pos.

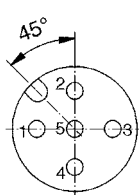


6-pos.

12x1 connectors overmoulded, female, plastic coupling nut

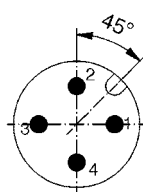


Female connector
4-pos.

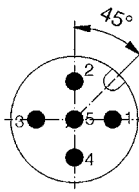


Female connector
4-pos.

12x1 connectors overmoulded, male, plastic coupling screw



Male connector
5-pos.



Male connector
5-pos.

Protection classes

Norm IEC 60529

IP = International Protection

Code number 1 =
Protection against
contact and foreign bodies

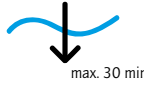
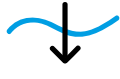
Code number 2 =
Protection against water

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.	

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

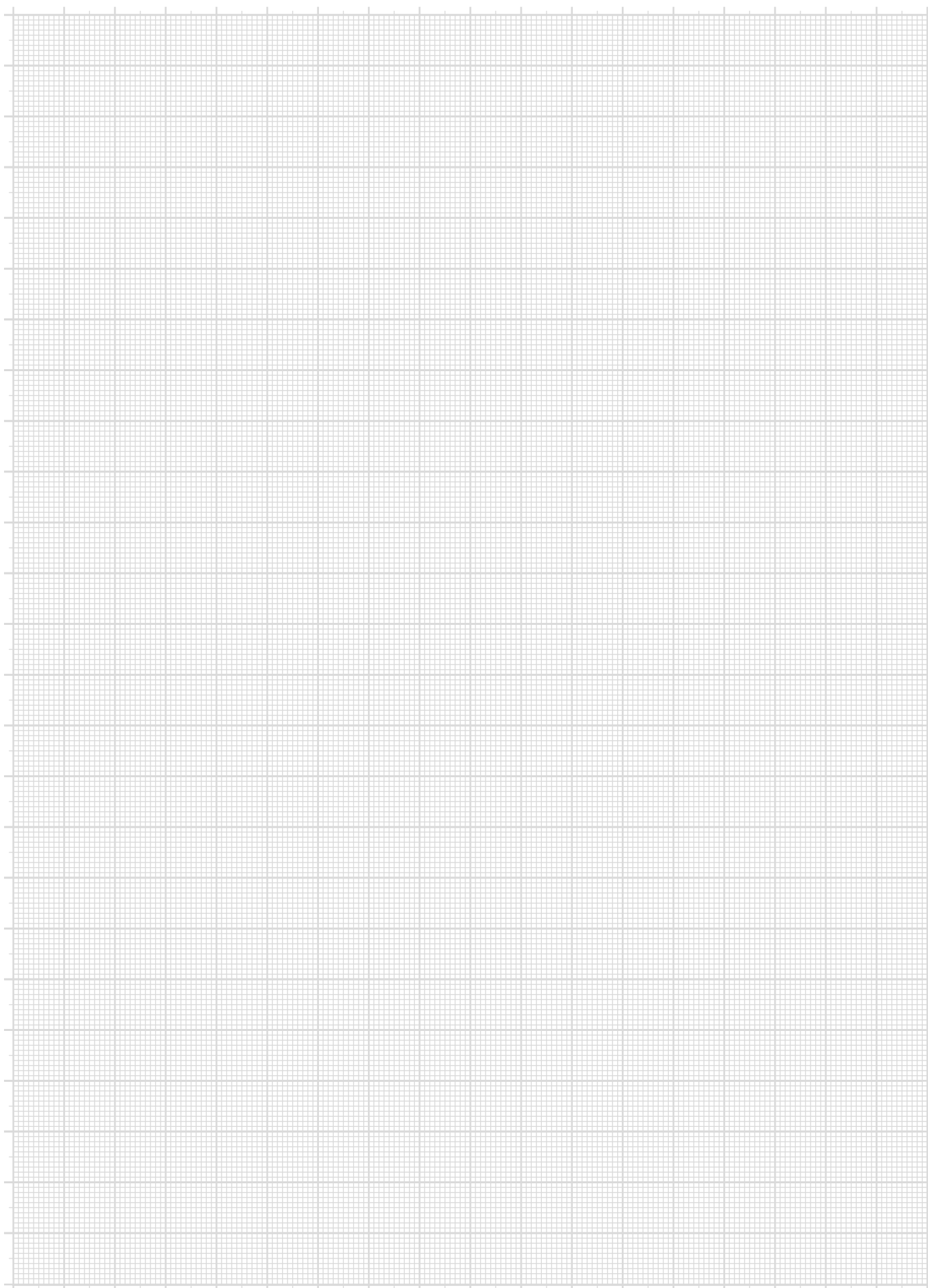
The American Wire Gauge AWG is also found in various areas of the automation industry use .
The following table is used for the conversion of AWG Supports at in mm² .

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-, 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



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

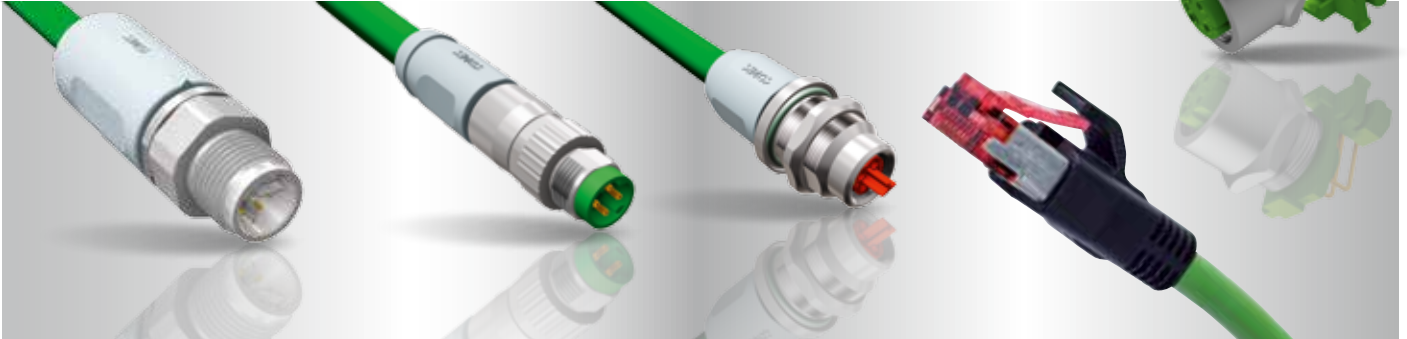
- Size: M8x1, M12x1
- Coding: A
- Number of poles: 3, 4, 5
- Female connector, male connector
- Optional with LED
- Temperature-resistant up to 125 °C (HT)
- Degree of protection: IP65 (HT), IP67, IP69K (F&B)

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



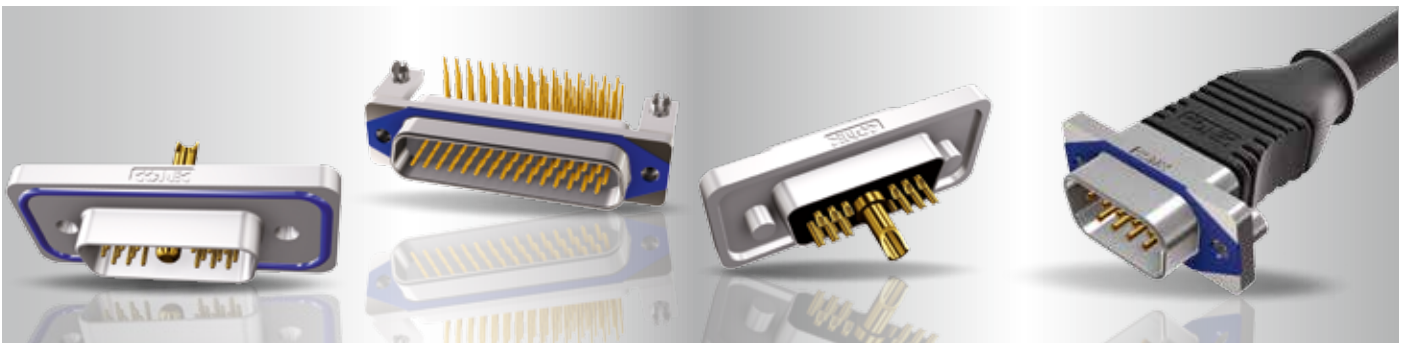
Details

- 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

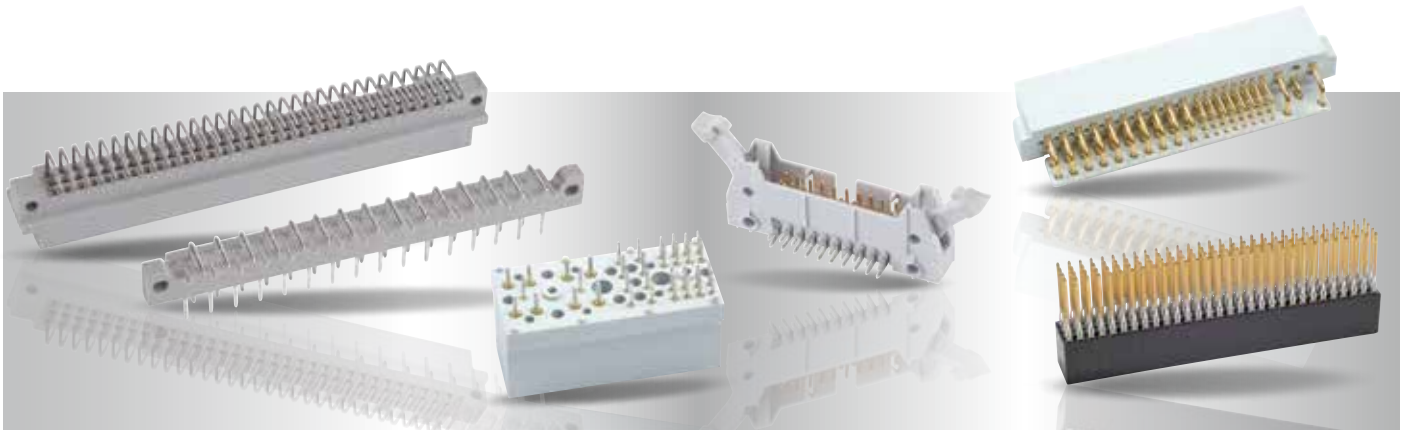
- Shell size: 1-5
- Shell: plastic, plastic metallized
- Degree of protection: IP67

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

PART NUMBER INDEX

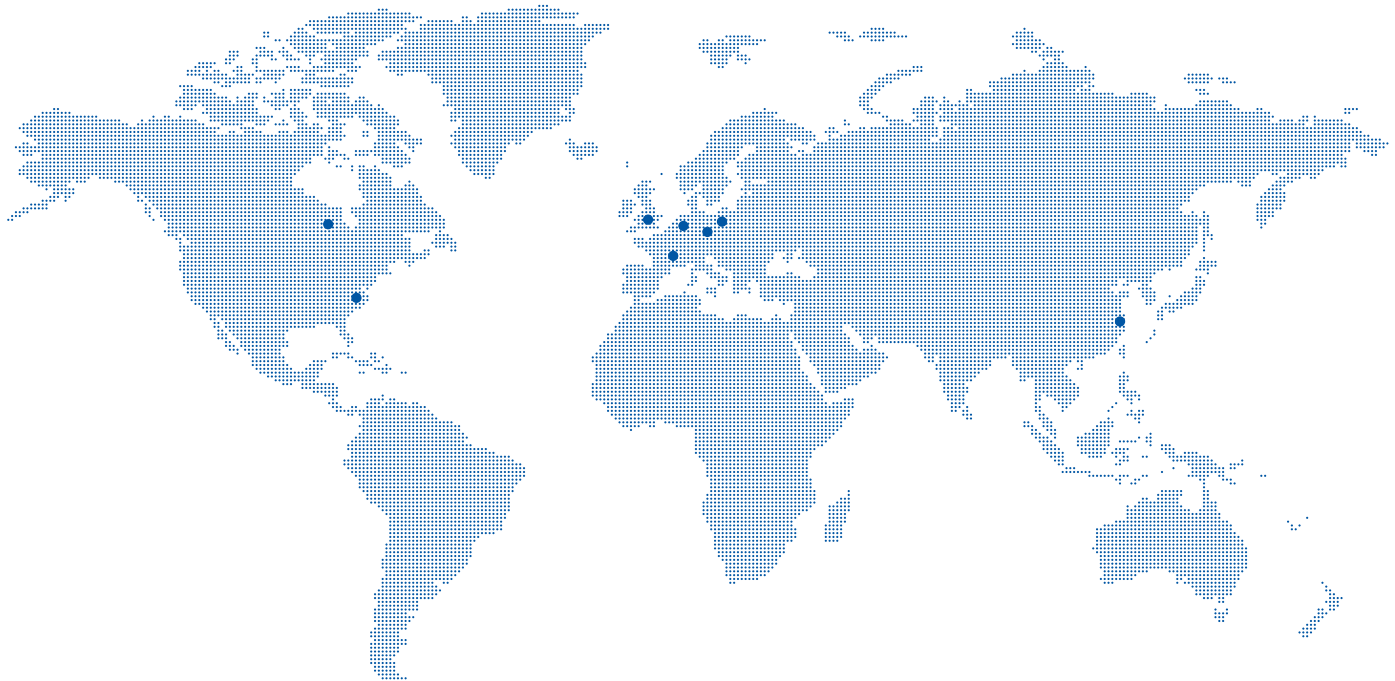
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