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Bus system connector, INTERBUS (500 kbps), 5-position, shielded, Socket straight M12, B-coded, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Your advantages

- Conveniently connect stranded conductors, thanks to lever
- ☑ Reliable and quick connection of electric cables
- Flexible signal and data cabling
- Quick and easy installation, thanks to Push-in connection technology



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 376035
GTIN	4055626376035

Technical data

Dimensions

Diameter housing	19 mm
Length	59 mm
External cable diameter	4 mm 8 mm
Stripping length of the sheath	29 mm
Stripping length of the individual wire	7 mm

Ambient conditions

Ambient temperature (operation)	-40 °C 85 °C (Plug / socket)
Degree of protection	IP65
	IP67

General



Technical data

General

Note	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.
Rated current at 40°C	4 A (2 A when using 0.14 mm² conductors)
Rated voltage	48 V AC
	60 V DC
Number of positions	5
Insulation resistance	≥ 100 MΩ
Coding	B - inverse
Standards/regulations	M12 connector IEC 61076-2-101
	Shock, vibration EN 50155:2001
Signal type/category	INTERBUS, 500 kbps
Status display	No
Overvoltage category	II II
Degree of pollution	3
Connection method	Push-in connection
Conductor cross section	0.14 mm² 0.75 mm² (without ferrule)
	0.08 mm² 0.5 mm² (with ferrule)
	0.14 mm² 0.75 mm² (solid)
Conductor cross section AWG	26 18 (without ferrule)
	28 20 (with ferrule)
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)
Assembly instructions	The wires can be connected both with ferrules and without ferrules

Material

Flammability rating according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR
Additional material specifications	TPE-U (Clamping cage, weight: 1.1 g)
	PA 6 (Actuation lever)
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, R25, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
	PA 6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)



Technical data

Standards and Regulations

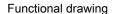
Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Standard designation	Shock, vibration
Standards/regulations	EN 50155:2001
Flammability rating according to UL 94	V0

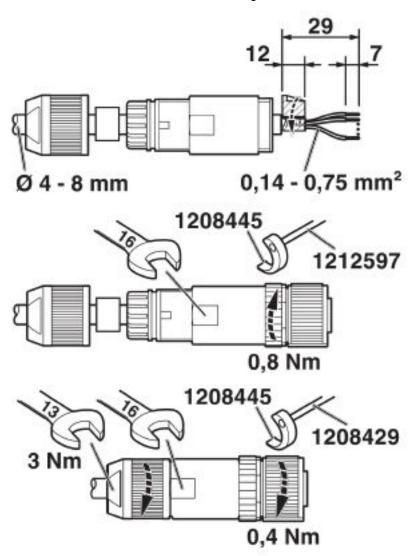
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings



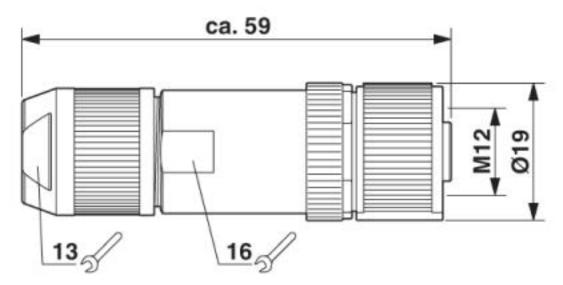




Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single wires, connect the wires, in the case of a straight sleeve housing gently twist the wires together, stick the shielding foil around the shortened shield, in the case of a cable outside diameter < 6 mm stick an additional shielding foil around the wire pack, screw the sleeve housing to the plug insert, screw the pressure nut tight.

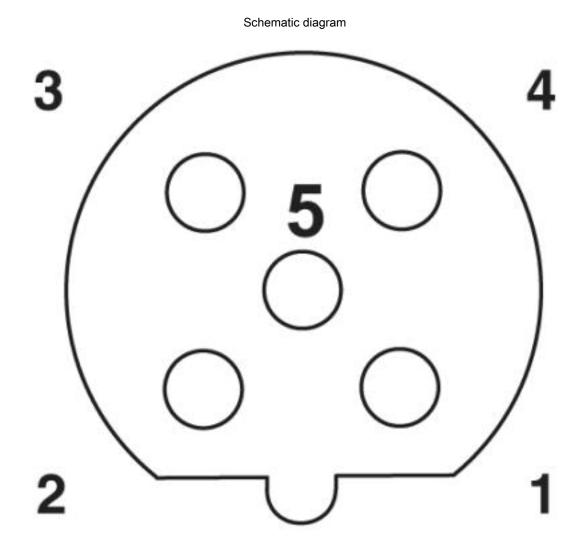


Dimensional drawing



Socket M12-SPEEDCON, straight, shielded





Pin assignment M12 socket, 5-pos., B-coded, female side

Approval details

Approvals Approvals EAC / UL Listed / cUL Listed / cULus Listed Ex Approvals



Approvals

EAC [A[RU C- DE.Al30.B.01102
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UL Listed	UL LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		E221474
Nominal voltage UN			60 V	
Nominal current IN			4 A	
mm²/AWG/kcmil			26-18	

cUL Listed	CUL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E22147		E221474
Nominal voltage UN			60 V	
Nominal current IN			4 A	
mm²/AWG/kcmil			26-18	

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