

1424672

https://www.phoenixcontact.com/in/products/1424672

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Data connector, CANopen[®], DeviceNet[™], 5-position, shielded, Socket straight M12, A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Your advantages

- Time-saving Push-Lock connection: Tool-free connection and disconnection of conductors by opening the contact levers
- · Intuitive connection: Easy assignment of individual litz wires with color-coded and numerical identification of the contact levers
- · Integrated Push-in Technology: Wire rigid and pretreated conductors easily by means of simple, direct insertion
- Shock- and vibration-resistant connection: Proven spring-cage technology guarantees secure and reliable contacting
- Safely shielded: Reliable 360° shield connection even under extreme mechanical strain

Commercial Data

Item number	1424672
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF2
Product Key	BF2CFD
Catalog Page	Page 423 (C-2-2019)
GTIN	4055626375991
Weight per Piece (including packing)	42.2 g
Weight per Piece (excluding packing)	42 g
Customs tariff number	85366990
Country of origin	DE



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Technical Data

Notes

Assembly instruction:	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.
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Mounting

Assembly instructions	The wires can be connected both with ferrules and without
	ferrules

Product properties

Product type	Circular connector (cable-side)
Number of positions	5
Application	Data
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	straight

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	ca. 59
Length	59 mm
External dimensions	
Outside diameter	4 mm 8 mm
Housing	
Diameter housing	19 mm

Material specifications

Material	TPE-U
	PA 6
Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn



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Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
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)

Connection data

Conductor connection

Connection method	Push-lock spring connection
Connection cross section	0.14 mm² 0.75 mm² (without ferrule)
	0.08 mm² 0.5 mm² (with ferrule)
	0.14 mm ² 0.75 mm ² (solid)
Connection cross section AWG	26 18 (without ferrule)
	28 20 (with ferrule)
Stripping length of the individual wire	7 mm
Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)

Pin assignment

Contact Color (signal designation) Contact (optional)	1 = GY (shield)
	2 = RD
	3 = BK
	4 = WH
	5 = BU

Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A (2 A when using 0.14 mm² conductors)

Mechanical properties

Mechanical data

	Insertion/withdrawal cycles	≥ 100
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Connector

Connection 1

Head design	Socket
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Standards/regulations

Standards/specifications

Standards/specifications

M12

	Head cable outlet	straight	
	Head thread type	M12	
	Coding	A	
Cab	ole/line		
	Signal type/category	CANopen [®]	
		DeviceNet™	
	Stripping length of the individual wire	7 mm	
Environmental and real-life conditions Ambient conditions			
	Degree of protection	IP65	
		IP67	
	Ambient temperature (operation)	-40 °C 85 °C (Plug / socket)	
	ndards and regulations		
Te	esting		

- HL3)

IEC 61076-2-101

EN 50155:2001

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

PA 6: Fire protection in rail vehicles - requirement sets R22, R23,

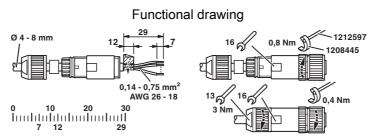
and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)



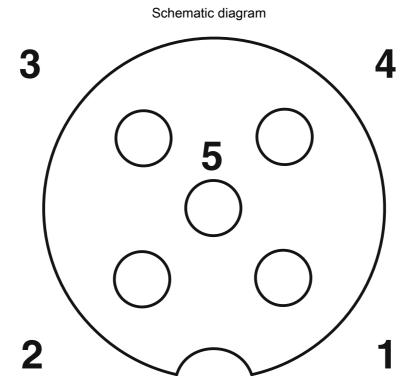
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Drawings



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.



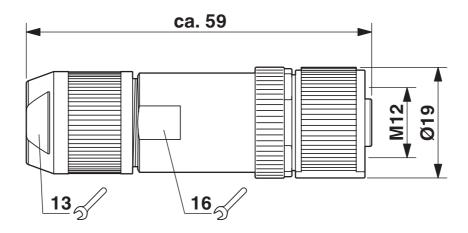
Pin assignment M12 socket, 5-pos., A-coded, socket side view



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Dimensional drawing



Socket M12-SPEEDCON, straight, shielded



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Approvals



EAC

Approval ID: RU C-DE.Al30.B.01102



EAC

Approval ID: RU C-DE.BL08.B.00511

UL Listed Approval ID: E221474				
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	60 V	4 A	-	26 - 18

•	cUL Listed Approval ID: E221474				
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		60 V	4 A	26 - 18	-



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Classifications

ECLASS

	ECLASS-11.0	27440102
	ECLASS-12.0	27440116
	ECLASS-13.0	27440116
ETIM		
	ETIM 8.0	EC002635
UNSPSC		
	UNSPSC 21.0	39121400



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Environmental Product Compliance

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



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Accessories

TSD 04 SAC - Torque screwdriver

1208429

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Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

TSD 08 SAC - Torque screwdriver

1212597

https://www.phoenixcontact.com/in/products/1212597



Torque screw driver with preset torque of 0.8 Nm, with 4 mm hexagon for accommodating SAC bits, two-component handle with non-slip grip



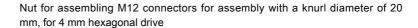
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SACC BIT M12-D20 - Tool

1208445

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TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/in/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm



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TSD-M 3NM - Torque screwdriver

1212225

https://www.phoenixcontact.com/in/products/1212225



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 1. 2 - 3 Nm

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/in/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits



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PROT-M12 MS-PA-CHAIN - Screw plug

1430899

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M12 sealing cap with fixing band, for sensor cables, for free M12 sockets



SAC-5P-920/... - Bus system cable

1511504

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Bus system cable, CANopen[®], DeviceNet[™], 4-position halogen-free, shielded, cable length: Free entry (0.5 ... 400 m)



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ALU-SB - Shielding foil

1404531

https://www.phoenixcontact.com/in/products/1404531

Shielding foil, for fixing the braided shield of shielded cables. Length: 4 cm, width: $1.2\ \text{cm}$



VS-CABLE-STRIP-VARIO - Stripping tool

1657407

https://www.phoenixcontact.com/in/products/1657407

Stripping tool, for the multi-level stripping of shielded cables





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WIREFOX 2,5 - Stripping tool

1212368

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Stripping tool, for conductors and cables with a conductor cross section from 0. 08 to 2.5 mm, self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm² stranded/1.5 mm² solid

AI 0,25-6 YE - Ferrule

3203024

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Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: yellow



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A 0,25-7-Ferrule

3202478

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Ferrule, length: 7 mm, color: silver

A 0,34-7-Ferrule

3009202

https://www.phoenixcontact.com/in/products/3009202



Ferrule, length: 7 mm, color: silver



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A 0,5 - 6 - Ferrule

3200218

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Ferrule, length: 6 mm, color: silver

AI 0,5 - 6 WH - Ferrule

3200687

https://www.phoenixcontact.com/in/products/3200687



Ferrule, sleeve length: 6 mm, length: 12 mm, color: white



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CRIMPFOX 6H - Crimping pliers

1212046

https://www.phoenixcontact.com/in/products/1212046



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm^2 ... 6 mm^2 , unlockable pressure lock, lateral entry

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