

1424695

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Data connector, PROFIBUS DP (12 Mbps), 3-position, shielded, Plug straight M12, coding: B, 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	1424695
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF2CFC
Product key	AF2CFC
GTIN	4055626376226
Weight per piece (including packing)	37.2 g
Weight per piece (excluding packing)	37.2 g
Customs tariff number	85366990
Country of origin	DE



1424695

https://www.phoenixcontact.com/au/products/1424695

Technical data

Notes

Assembly note	NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.
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Mounting

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

Product properties

Product type	Circular connector (cable-side)
Application	Data
Sensor type	PROFIBUS DP
Number of positions	3
No. of cable outlets	1
Shielded	yes
Coding	В
Cable outlet	straight
Insulation characteristics	
Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
	ca. 61
Length	60 mm
External dimensions	
Outside diameter	4 mm 8 mm
Housing	
Diameter housing	19 mm

Material specifications

Material	TPE-U (Clamping cage, weight: 1.1 g)
	PA 6 (Actuation lever)
Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	Zinc die-cast, nickel-plated



1424695

https://www.phoenixcontact.com/au/products/1424695

Contact material	CuSn
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
	PA 6

Connection data

Conductor connection

Connection method	Push-lock spring connection
Connection cross section	0.14 mm ² 0.75 mm ² (without ferrule)
	0.08 mm ² 0.5 mm ² (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)	2 = GN (A)
	4 = RD (B)
	5 = GY

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

Connector

Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12
Coding	В



1424695

https://www.phoenixcontact.com/au/products/1424695

Cable/line

Signal type/category	PROFIBUS DP, 12 Mbps
Stripping length of the individual wire	7 mm

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Testing

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)	
Standard designation	M12 connector	
Standards/specifications	IEC 61076-2-101	

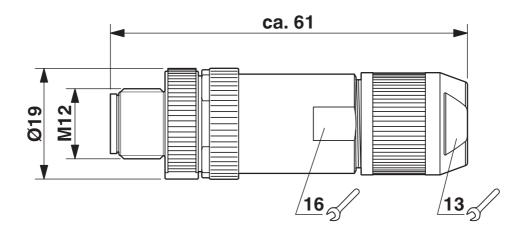


1424695

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Drawings

Dimensional drawing



M12 SPEEDCON plug, straight, shielded

Functional drawing Ø 4 - 8 mm 12 13 0,14 - 0,75 mm² AWG 26 - 18 13 16 3 Nm 1212597 1208445

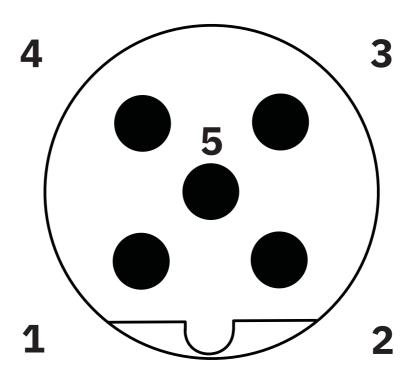
Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single wires, connect the wires, in the case of a straight sleeve housing gently twist the wires together, stick the shielding foil around the shortened shield, in the case of a cable outside diameter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



1424695

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Schematic diagram



Pin assignment M12 male connector, 5-pos., B-coded, male side



1424695

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Approvals

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<u>0</u>	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

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1424695

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Classifications

	ECLASS-13.0	27440116		
_	-1A 4			
ETIM				
	ETIM 9.0	EC002635		
UNSPSC				
	UNSPSC 21.0	39121400		



1424695

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions			
China RoHS				
Environment friendly use period (EFUP)	EFUP-E			
	No hazardous substances above the limits			
EU REACH SVHC				
REACH candidate substance (CAS No.)	No substance above 0.1 wt%			

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