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Data connector, INTERBUS (500 kbps), 5-position, shielded, Plug angled M12, coding: B, Pushlock 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
- · Flexible cable outlets with angled connectors

Commercial data

Item number	1424675
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BF2CFB
Catalog page	Page 422 (C-2-2019)
GTIN	4055626376028
Weight per piece (including packing)	40 g
Weight per piece (excluding packing)	37.06 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

Assembly 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.
Mounting	
Assembly note	The connector pin assignment can be rotated 45° to the cable outlet
	The wires can be connected both with ferrules and without ferrules

Product properties

Product type	Circular connector (cable-side)		
Application	Data		
Sensor type	INTERBUS		
Number of positions	5		
No. of cable outlets	1		
Shielded	yes		
Coding	В		
Cable outlet	angled		
Data management status			
Article revision	04		
Insulation characteristics			
Overvoltage category	II		
Degree of pollution	3		

Dimensions

Dimensional drawing	S C C B. 41		
Length	50 mm		
External dimensions			
Outside diameter	4 mm 8 mm		
Housing			
Diameter housing	19 mm		

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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	
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: 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 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)	1 = YE
	2 = GN
	3 = GY
	4 = PK
	5 = BN

Electrical properties

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

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Mechanical properties

Standard designation

Standards/specifications

Mechanical data	
Insertion/withdrawal cycles	≥ 100
Connector	
Connection 1	
Head design	Plug
Head cable outlet	angled
Head thread type	M12
Coding	В
Cable/line	
Signal type/category	INTERBUS, 500 kbps
Stripping length of the individual wire	7 mm
Ambient conditions Degree of protection	IP65
Ambient temperature (operation)	-40 °C 85 °C (Plug / socket)
Ambient temperature (operation)	-40 C 05 C (Fildy / 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)
M12	
M12 Standard designation	M12 connector
	M12 connector IEC 61076-2-101

Shock, vibration

EN 50155:2001

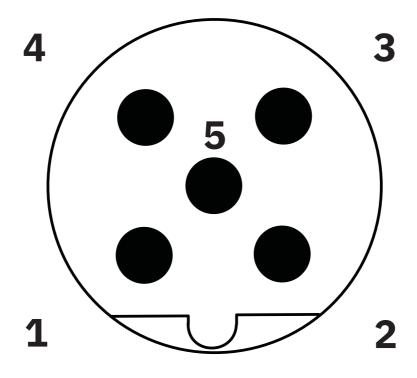
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Drawings

Schematic diagram

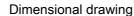


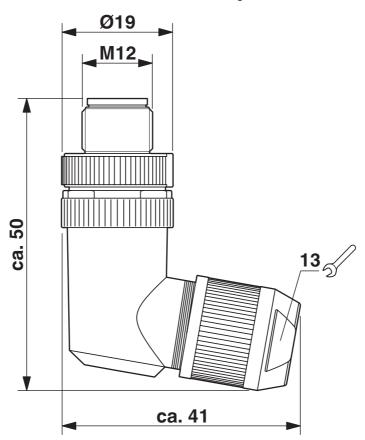
Pin assignment M12 male connector, 5-pos., B-coded, male side



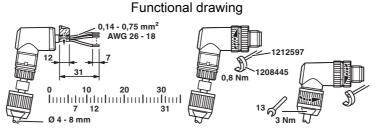
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Plug M12 SPEEDCON, angled, shielded



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.



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Approvals

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ERC	EAC Approval ID: RU C-DE.BL08.B.00511				
Q	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
<u>.</u>	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	-

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

	ETIM 9.0	EC002635		
UN	UNSPSC			
	UNSPSC 21.0	39121400		

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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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