

1424651

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Connector, Universal, 5-position, unshielded, Plug angled M12, coding: 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
- · Flexible cable outlets with angled connectors

Commercial data

Item number	1424651
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF33
Product key	BF2CEA
Catalog page	Page 19 (C-2-2019)
GTIN	4055626374987
Weight per piece (including packing)	22.6 g
Weight per piece (excluding packing)	22.6 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

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)
Sensor type	Universal
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	angled
Data management status	
Article revision	05

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	019 M12 M12 ca, 45
Length	51 mm
External dimensions	
Outside diameter	4 mm 8 mm
Housing	
Diameter housing	19 mm

Material specifications



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Material	PBT (Pressure nut, weight: 2.36 g)	
	PA 6 (Actuation lever)	
Flammability rating according to UL 94	V0	
Seal material	NBR PA 6.6	
Material of grip body		
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, 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)	
	PBT: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL2, R26: HL3)	

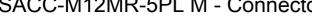
Connection data

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)
	0.4 Nm (Connector with coupling sleeve)
	1.5 Nm (Pressure nut with coupling sleeve)
Pin assignment	
Contact Color (signal designation) Contact (optional)	1 = BN
	2 = WH
	3 = BU
	4 = BK
	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)





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Mechanical properties

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	Insertion/withdrawal cycles	≥ 100

Connector

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Connection 1

Head design	Plug
Head cable outlet	angled
Head thread type	M12
Coding	A

Cable/line

Signal type/category	Universal
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)

Standards and regulations

Testing

Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, 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)
	PBT: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL2, R26: HL3)
M12	

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001



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Drawings

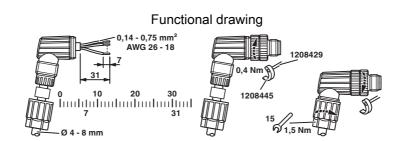
Dimensional drawing

Ø19

M12

Ca. 43

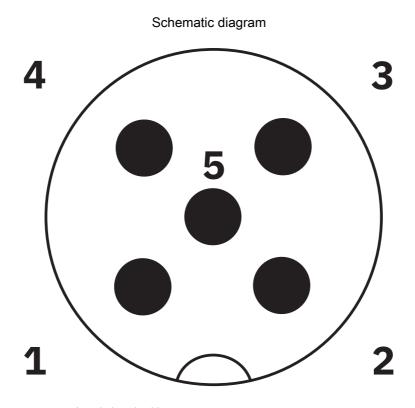
M12 x 1 male plug, angled





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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1424651

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EAC

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

<u>@</u>	UL Listed Approval ID: E221474				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		250 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
	250 V	4 A	26 - 18	-

cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27440102	
ECLASS-12.0	27440116	
ECLASS-13.0	27440116	
ETIM		
ETIM 9.0	EC002635	
UNSPSC		

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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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com