1424660

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Connector, Universal, 5-position, shielded, Socket straight 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
- Safely shielded: Reliable 360° shield connection even under extreme mechanical strain

Commercial data

Item number	1424660	
Packing unit	1 рс	
Minimum order quantity	1 pc	
Sales key	AF2CFA	
Product key	AF2CFA	
Catalog page	Page 19 (C-2-2019)	
GTIN	4055626375878	
Weight per piece (including packing)	43.4 g	
Weight per piece (excluding packing)	41.9 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 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.
Mounting	
Assembly note	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	yes
Coding	Α
Cable outlet	straight
Insulation characteristics	
Overvoltage category	II
Degree of pollution	3

Dimensions

Contact material

) mm
mm 8 mm
) mm
PE-U (Clamping cage, weight: 1.1 g)
A 6 (Actuation lever)
)
3R
nc die-cast, nickel-plated
)))

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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
	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 mm² 0.75 mm² (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 = BN
	2 = WH
	3 = BU
	4 = BK
	5 = GY

Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 8 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 mm ² conductors)

Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 100

Connector

Connection 1	
Head design	Socket
Head cable outlet	straight
Head thread type	M12

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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	IDOS
	IP65
Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	

Standards and regulations

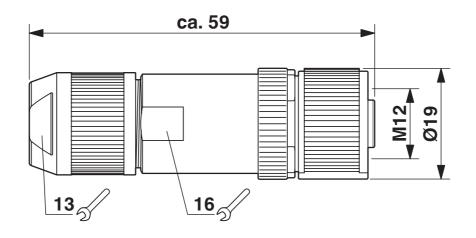
Testing		
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, R25, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)	
	PA 6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)	
M12		
Standard designation	M12 connector	
Standards/specifications	IEC 61076-2-101	
Standard designation	Shock, vibration	
Standards/specifications	EN 50155:2001	

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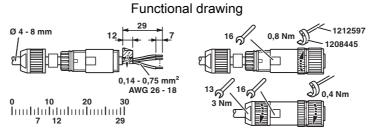
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Drawings

Dimensional drawing



Socket M12-SPEEDCON, straight, shielded

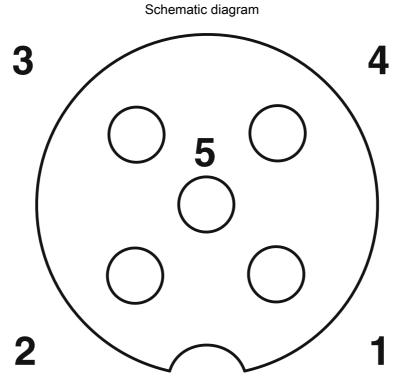


Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single wires, connect the wires, in the case of a straight sleeve housing gently twist the wires together, stick the shielding foil around the shortened shield, in the case of a cable outside diameter < 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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Pin assignment M12 socket, 5-pos., A-coded, socket side view

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Approvals

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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	-

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Classifications

ECLASS

	ECLASS-13.0	27440116			
ETIM					
	ETIM 9.0	EC002635			
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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