

1438184

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Connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12 Push-Pull, coding: D, 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
- · Flexible cable outlets with angled connectors
- · Save time, thanks to installation with push-pull fast locking

Commercial data

Item number	1438184
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF2CFN
Product key	AF2CFN
GTIN	4063151815431
Weight per piece (including packing)	35.5 g
Weight per piece (excluding packing)	22.22 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.
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Product properties

Product type	Circular connector (cable-side)
Application	Data
Sensor type	PROFINET
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	D
Cable outlet	angled
Insulation characteristics	
Overvoltage category	II
Degree of pollution	3

Dimensions

External dimensions

Outside diameter	4 mm 8 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
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



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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	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)

Pin assignment

Contact Color (signal designation) Contact (optional)	1 = YE (TD+)
	2 = WH (RD+)
	3 = OG (TD-)
	4 = BU (RD-)

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	Plug
Head cable outlet	angled
Head thread type	M12
Head locking type	Push-Pull
Coding	D

Cable/line

Signal type/category	PROFINET CAT5 (based on IEC 11801), 100 Mbps
Stripping length of the individual wire	7 mm

Environmental and real-life conditions

Ambient conditions



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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, 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 Cat. 1B
Standard designation	M12-Push-Pull
Standards/specifications	IEC 61076-2-010

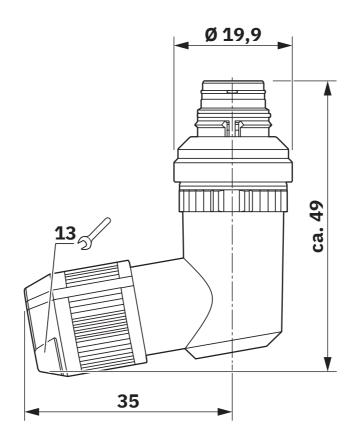


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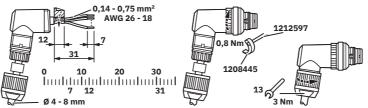
Drawings

Dimensional drawing



Dimensional drawing

Functional drawing

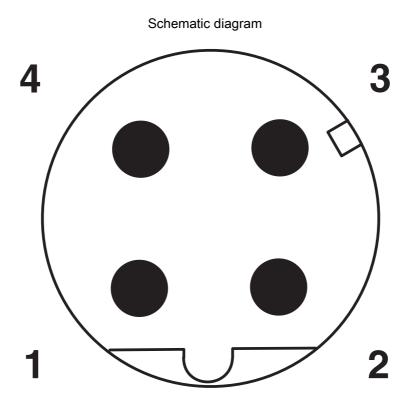


Functional drawing



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Pin assignment M12 male connector, 4-pos., D-coded, male side



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Classifications

ECLASS

	ECLASS-13.0	27440116
ETIM		
	ETIM 9.0	EC002635



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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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