

1067227

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Device connector front mounting, PROFINET CAT5 (IEC 11801:2002), 4-position, Socket, straight, M12-SPEEDCON, coding: D , on free cable end, Front mounting, M16 x 1.5, Individual wires, TPE litz wire

Your advantages

- · Preassembled with litz wires for immediate use
- · Customer-specific assemblies and litz wire lengths available
- · Sealed on the litz wire side for optimum leak-tightness
- · All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- · For high transmission safety: shield connection to the housing with optional EMC nut
- · SPEEDCON fast locking system reduces cabling times

Commercial data

Item number	1067227
Packing unit	1 pc
Minimum order quantity	100 pc
Product key	ABQCFB
GTIN	4055626735962
Weight per piece (including packing)	30 g
Weight per piece (excluding packing)	20.32 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Notes

General The electrical and mechanical data specified assume that the connector piis is correctly cocked and moundal. If the connector piis is correctly cocked and moundal. If the connector piis unlocked and if there is a danger of contansitor, the connector mather is be saded using a protective cap. IPS4. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. General This product corresponds to the PPCOINET Cabling and Interconnection Technology Guideline for PCBINET Safety note WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property. functioning products only. The products must be requirely inspected for damage. Decommission defective products immediately. Replace damagad products. Replace damagad products. Replace the following safety note. Safety note WARNING: The connector may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property. functioning products only. The products must be requirely inspected for damage. Decommission of edir ter orgulate is mediately. Replace damagad products. Replace damagad products are product indirect connector with the basies of electrical angineering. The methanist and operate the product. I The product are suitable for applications in plant, controller, and electrical advice angineering and indices. - Assembled products may not be mapulated or improperly operad. I The product in direct connector with third-party manufactures. It is a solitable for soponibil. - The product in generatib	Notes	
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• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products

• Ensure that the protective or functional ground has been properly connected.

• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector

• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Mounting

Mounting type	Front wall/screw mounting
Connection method	Individual wires

Product properties

Product type	Circular connectors (device side)
Sensor type	PROFINET
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	D
Thread type	M12

Insulation characteristics	
Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	VO
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Conductor material	Tin-plated Cu litz wires

Electrical properties

Rated surge voltage	2.5 kV AC
Nominal voltage U _N	250 V
Nominal current I _N	4 A
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Max. conductor resistance	57.6 Ω/km



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Connection data

Conductor connection	
Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	0.34
Tightening torque	3 Nm
	4 Nm

Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	> 100

Connector

Head design	Socket	
Head cable outlet	straight	
Head thread type	M12	
Head locking type	SPEEDCON	
Coding	D	

free cable end

Cable/line

Head design

Cable length	0.5
Cable type	TPE litz wire
Signal type/category	PROFINET CAT5 (IEC 11801:2002)
Wire diameter incl. insulation	1.2 mm ±0.07 mm
Single wire, color	yellow, orange, white, blue
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.25 mm
AWG signal line	22
Material wire insulation	TPE
Thickness, insulation	0.21 mm (Core insulation)
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Cable resistance	≤ 57.6 Ω/km
Cable insulation resistance	≥ 20 MΩ*km
Ambient temperature (operation)	-40 °C 85 °C (cable, fixed installation)
	-25 °C 85 °C (Cable, flexible installation)



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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
	IP65/IP67
Ambient temperature (operation)	-2585 (Plug / socket)
	-40 °C 85 °C (without mechanical actuation)
	-25 °C 85 °C (Cable, flexible installation)
	-40 °C 85 °C (cable, fixed installation)

Standards and regulations

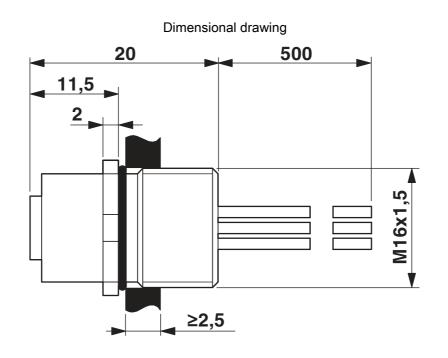
M12			
Standard designation	M12 connector		
Standards/specifications	according to IEC 61076-2-101		



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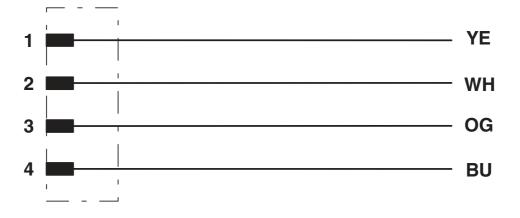
https://www.phoenixcontact.com/pc/products/1067227

Drawings



Dimensional drawing

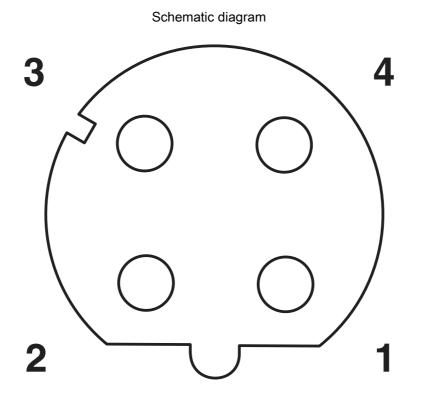
Circuit diagram





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Pin assignment M12 socket, 4-pos., D-coded, female side



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1067227

EAC Approval ID: B.01687



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Classifications

ECLASS

	ECLASS-11.0	27440103	
	ECLASS-12.0	27440103	
	ECLASS-13.0	27440103	
ETIM			
	ETIM 8.0	EC003570	
UNSPSC			
	UNSPSC 21.0	39121400	



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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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Accessories

SACC-E-MU-M16 - Flat nut

1504097 https://www.phoenixcontact.com/pc/products/1504097

Flat nut, Screw mounting, M16 x 1.5, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239863



SACC-M16-SEAL CLM - Flat gasket

1430394 https://www.phoenixcontact.com/pc/products/1430394

M16 flat gasket for M12 flush-type connectors with M16 fastening thread





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PROT-M12 - Screw plug

1680539

https://www.phoenixcontact.com/pc/products/1680539



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

PROT-M12 SH - Screw plug

1503302 https://www.phoenixcontact.com/pc/products/1503302



An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors



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PROT-M12 FB - Screw plug

1555538

https://www.phoenixcontact.com/pc/products/1555538



M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry

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