

1419616

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Device connector rear mounting, PROFINET CAT5 (IEC 11801:2002), 4-position, Socket, straight, M12-Standard, coding: D, on free cable end, Rear mounting, M16 x 1.5, Individual wires, cable length: $0.5 \, \text{m}$, $0.34 \, \text{mm}^2$, TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < $0.1 \, \%$) item no.: 1239273

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	1419616
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCHB
Catalog page	Page 49 (C-2-2019)
GTIN	4046356533461
Weight per piece (including packing)	32.7 g
Weight per piece (excluding packing)	23.4 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 pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
General	Lock nut is included in the scope of delivery
General	Contact connection method: Crimp connection

Safety note

Sa	tety	no	te

WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.

- WARNING: Commission properly functioning products only.
 The products must be regularly inspected for damage.
 Decommission defective products immediately. Replace damaged products. Repairs are not possible.
- WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
- The products are suitable for applications in plant, controller, and electrical device engineering.
- When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
- Assembled products may not be manipulated or improperly opened.
- Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
- When using the product in direct connection with third-party manufacturers, the user is responsible.
- For operating voltages > 50 V AC, conductive connector housings must be grounded
- Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
- Observe the corresponding technical data. You will find information:
- o On the product
- o On the packing label
- o In the supplied documentation
- o Online at phoenixcontact.com/products under the product
- Only use tools recommended by Phoenix Contact
- Use a protective cap to protect connectors that are not in use.



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		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).
Мо	unting	
	Mounting type	Rear mounting M16 x 1.5 With flat nut
	Assembly instructions	With flat nut
Pro	oduct 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
lı	nsulation characteristics	
	Overvoltage category	Ш
	Degree of pollution	3
Ма	terial specifications	
	Flammability rating according to UL 94	V0
	Seal material	NBR
	Contact material	CuZn
	Contact surface material	Au
	Contact carrier material	PA 6.6
	Material for screw connection	Zinc die-cast, nickel-plated
	Conductor material	Tin-plated Cu litz wires
Ele	ctrical properties	
	Rated surge voltage	2.5 kV
	Contact resistance	≤ 3 mΩ
	Insulation resistance	≥ 100 MΩ
	Nominal voltage U _N	250 V (AC)
		250 V (DC)
	Nominal current I _N	4 A
	Transmission medium	Copper



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Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Max. conductor resistance	57.6 mΩ/m

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	0.34 mm²
Tightening torque	3 Nm 4 Nm (Installation-side)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Connector

Connection 1

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

Connection 2

Head design	free cable end

Cable/line

Cable length	0.5 m
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
Cable cross section	0.34 mm²
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
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Cable resistance	≤ 57.6 mΩ/m
Cable insulation resistance	≥ 20 MΩ*km
Ambient temperature (operation)	-40 °C 85 °C (cable, fixed installation)



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	-25 °C 85 °C (Cable, flexible installation)
ronmental and real-life conditions	
Degree of protection	IP67 (When plugged in)
J. T.	IP65 (When plugged in)
	IP65/IP67
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
	-40 °C 85 °C (without mechanical actuation)
	-25 °C 85 °C (Cable, flexible installation)
	-40 °C 85 °C (cable, fixed installation)
ndards and regulations	
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101



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Classifications

UNSPSC 21.0

ECLASS

202100		
27440102		
27440116		
27440116		
ETIM		
EC002635		

39121400



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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