

1404245

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Device connector front mounting, Ethernet CAT5 (100 Mbps), Ethernet, 4-position, PUR, water blue RAL 5021, shielded, Socket, straight, M12-SPEEDCON, coding: D, on free cable end, Front mounting, Cable lug connection, cable length: 5 m, Ethernet flexible CAT5, 2-pair, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1260716

Your advantages

- · Preassembled with cables in various standard lengths for immediate use
- · Customer-specific assemblies and cable lengths can be supplied
- · Sealed on the cable side for optimum tightness of seal
- · Cable designs for all common networks and fieldbuses
- · For high transmission safety: shield connection to the housing with optional EMC nut

Commercial data

Item number	1404245
Packing unit	1 pc
Minimum order quantity	50 pc
Sales key	ABQ
Product key	ABQDEI
GTIN	4046356681759
Weight per piece (including packing)	227.7 g
Weight per piece (excluding packing)	220 g
Customs tariff number	85444290
Country of origin	DE



1404245

https://www.phoenixcontact.com/in/products/1404245

Technical data

Notes

Notes on operation The electrical and mechanical data specified ass connector pair is correctly locked and mounted. I is unlocked and if there is a danger of contamina connector must be sealed using a protective cap Influences arising from litz wires, cables or PCB also be taken into consideration. Order information: Lock nut is included in the scope of delivery	f the connector tion, the > IP54.
Safety note	
Safety note WARNING: The connectors may not be plugged disconnected under load. Ignoring the warning or may damage persons and/or property.	
WARNING: Commission properly functioning properly functioning products must be regularly inspected for dar Decommission defective products immediately. It damaged products. Repairs are not possible.	nage.
WARNING: Only electrically qualified personne operate the product. They must observe the follonotes. The qualified personnel must be familiar welectrical engineering. They must be able to recoprevent danger. The relevant symbol on the pack that only personnel familiar with electrical engine allowed to install and operate the product.	wing safety vith the basics of gnize and kaging indicates
The products are suitable for applications in pla and electrical device engineering.	nt, controller,
When operating the connectors in outdoor appl must be separately protected against environment	•
Assembled products may not be manipulated o opened.	r improperly
Only use mating connectors that are specified in data of the standards listed (e.g. the ones listed in accessories online at phoenixcontact.com/productions).	n the product
When using the product in direct connection with manufacturers, the user is responsible.	h third-party
For operating voltages > 50 V AC, conductive of housings must be grounded	onnector
Ensure that when laying the cable, the tensile to connectors does not exceed the upper limit spect standards.	
Observe the corresponding technical data. You information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the	
Only use tools recommended by Phoenix Conta	act
Use a protective cap to protect connectors that The suitable accessories are available online in t	



1404245

https://www.phoenixcontact.com/in/products/1404245

	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).
roduct properties	
Product type	Data cable preassembled
Sensor type	Ethernet
Number of positions	4
No. of cable outlets	1
Shielded	yes
Thread type	M12
Insulation characteristics	
Overvoltage category	II .
Degree of pollution	3
terfaces	
Bus system	Ethernet
Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps
	Ethernet
ectrical properties	
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
,	60 V DC
Nominal current I _N	4 A (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed)
Transmission medium	Соррег
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
echanical properties	
Mechanical data	
Insertion/withdrawal cycles	≥ 100
aterial specifications	
Flammability rating according to UL 94	V0



1404245

https://www.phoenixcontact.com/in/products/1404245

Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Outer sheath, material	PUR

Connection data

Connection technology	
Connection method	Cable lug connection
Conductor connection	
Contact connection type	Socket
Connection method	Cable lug connection

Connector

Connection 1

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

Connection 2

Head design	free cable end
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Cable/line

Cable length	5 m
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Ethernet flexible CAT5, 2-pair [93E]

Dimensional drawing



Cable weight	42 kg/km
UL AWM Style	20963 (80°C/30 V)
Wiring standards/regulations	Electrical requirements EN 50288-2-2
Number of positions	4
Shielded	yes
Cable type	Ethernet flexible CAT5, 2-pair [93E]
Conductor structure	2x2xAWG26/7, SF/UTP
Signal runtime	5.3 ns/m



1404245

https://www.phoenixcontact.com/in/products/1404245

Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	2x 2x 0.14 mm²
Wire diameter incl. insulation	0.98 mm
External cable diameter	6.40 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE
Single wire, color	white/orange-orange, white/green-green
Thickness, outer sheath	1.20 mm
Twisted pairs	2 cores to the pair
Overall twist	Two pairs with two fillers to the core
Optical shield covering	70 %
Insulation resistance	≥ 500 MΩ*km
Coupling resistance	≤ 100.00 mΩ/m (at 10 MHz)
Loop resistance	≤ 290.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Cable capacity	approx. 45 nF/km (at 1 kHz)
Nominal voltage, cable	≤ 100 V (Peak value, not for high-power applications)
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700.00 V (50 Hz, 1 min.)
Current carrying capacity of cable	2.00 A (according to DIN VDE 0891-1)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	52 mm
Tensile strength	≤ 80 N
Near end crosstalk attenuation (NEXT)	65.3 dB (with 1 MHz)
	56.3 dB (at 4 MHz)
	50.3 dB (at 10 MHz)
	47.2 dB (at 16 MHz)
	45.8 dB (at 20 MHz)
	42.9 dB (at 31.25 MHz)
	38.4 dB (at 62.5 MHz)
	35.3 dB (at 100 MHz)
Power-summated near end crosstalk attenuation (PSNEXT)	62.3 dB (with 1 MHz)
	53.3 dB (at 4 MHz)
	47.3 dB (at 10 MHz)
	44.2 dB (at 16 MHz)
	42.8 dB (at 20 MHz)
	39.9 dB (at 31.25 MHz)



1404245

https://www.phoenixcontact.com/in/products/1404245

	35.4 dB (at 62.5 MHz)
	32.3 dB (at 100 MHz)
Return attenuation (RL)	23 dB (at 4 MHz)
	24.1 dB (at 8 MHz)
	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	23.6 dB (at 31.25 MHz)
	21.5 dB (at 62.5 MHz)
	20.1 dB (at 100 MHz)
Shield attenuation	3.2 dB (with 1 MHz)
	6 dB (at 4 MHz)
	9.5 dB (at 10 MHz)
	12.1 dB (at 16 MHz)
	13.6 dB (at 20 MHz)
	17.1 dB (at 31.25 MHz)
	24.8 dB (at 62.5 MHz)
	32 dB (at 100 MHz)
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
	in acc. to UL VW1
	in accordance with UN ECE-R 118.03
Resistance to oil	in accordance with EN 60811-2-1
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-20 °C 80 °C (Cable, flexible installation)
Ambient temperature (installation)	-20 °C 80 °C

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
	IP67
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
	-40 °C 85 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

Standards and regulations

M12

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



1404245

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1404245



EAC

Approval ID: 19060508



1404245

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Classifications

ECLASS

	ECLASS-11.0	27440103		
	ECLASS-12.0	27440103		
	ECLASS-13.0	27440103		
ETIM				
	ETIM 9.0	EC003570		
UNSPSC				
	UNSPSC 21.0	39121400		



1404245

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	e144bc9b-9111-420c-946b-175325afb6aa



1404245

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Accessories

SACC-M16-SEALING PLUG SET - Screw plug

1453368

https://www.phoenixcontact.com/in/products/1453368



Screw plug, Rear mounting, M16 x 1.5, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239800

PROT-M12 - Screw plug

1680539

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



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



1404245

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PROT-M12 SH - Screw plug

1503302

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



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

PROT-M12 FB - Screw plug

1555538

https://www.phoenixcontact.com/in/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



1404245

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SACC-M16-SEAL CLM - Flat gasket

1430394

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



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