

1419399

https://www.phoenixcontact.com/us/products/1419399

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Device connector, rear mounting, Universal, 4-position, PUR, black-gray RAL 7021, shielded, Flush-type male connector, straight, M12-SPEEDCON, A, on free cable end, Rear mounting, M16 x 1.5, Cable connection, cable length: 1 m, PUR halogen-free black item no.: 1239252

### Your advantages

- · Pre-assembled 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
- · For high transmission safety: shield connection to the housing with optional EMC nut

### **Commercial Data**

Item number	1419399
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	A11
Product Key	ABQCEC
Catalog Page	Page 51 (C-2-2019)
GTIN	4046356533249
Weight per Piece (including packing)	73.8 g
Weight per Piece (excluding packing)	60 g
Customs tariff number	85444290
Country of origin	DE



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## **Technical Data**

### Notes

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



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

 $\bullet$  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	Rear mounting M16 x 1.5 With flat nut
Assembly instructions	With flat nut

### **Product properties**

Product type	Circular connectors (device side)
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	A - standard

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

#### Material specifications

Flammability rating according to UL 94	V0
Sealing material	NBR
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

#### **Electrical properties**

Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	250 V
Nominal current I <sub>N</sub>	4 A (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed)
Transmission medium	Copper

### Connection data

Conductor connection	
Connection method	Cable connection



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Type of contactsCrimp contactsTightening torque3 Nm4 Nm4 NmConnecton 1Fush-type male connectorHead designFush-type male connectorHead cable outletstraightHead thread typeM12Head thread typeSPEEDCONCodingAConnecton 2Fuel cable endHead designfree cable endConnecton 2Immediate cable endConnecton 3Immediate cable endConnecton 4Immediate cable endConnector 5Immediate cable endColle weightImmediate cable endConnector 6 positions4ShieldedYesConductor structure signal line22Conductor structure signal line22Conductor structure signal line22Conductor structure signal line1.27 mm 20.20 mm 30.20		
4 Nm         Connector         Head design       Flush-type male connector         Head design       Flush-type male connector         Head design       Strelight         Head design       Strelight         Head thread type       M12         Head design       SPEEDCON         Coding       A         Connecton 2       Immediate and thread type         Cable / line       Tm         Cable length       1 m         PUR halogen-free black (PUR)       Dimensional drawing         Dimensional drawing       Stelf         Gable weight       36 kg/km         UL AVMM Style       20549 / 10493 (80*C/300 V)         Number of positions       4         Shieldd       yes         Cadule type       PUR halogen-free black (PUR)         Orductor structure signal line       42 0.10 mm         AVG signal line       22         Conductor ross section       4 × 0.34 mm* (Signal line)         Wre diameter incl.insulation       1.27 mm 20.02 mm (Signal line)         Wre diameter incl.insulation       1.27 mm 20.02 mm         Outer steath, material       Barc Line Wres         Material wire insulation       PUR         Mater	Type of contact	Crimp contacts
Connector Connector Connector Connector Connector Head cable outlet Head design Head color of the design Head locking type SPEEDCON Coding A Connecton 2 Head design rece cable ond Coding Codi	Tightening torque	3 Nm
Connection 1       Flusth-type male connector         Head cable outlet       straight         Head thread type       M12         Head locking type       SPEDICON         Coding       A         Connection 2       Image cable end         Tead design       free cable end         Coble length       1 m         PUR halogen-free black (PUR)       Dimensional drawing         Cable weight       36 kg/km         UL AVWN Style       26549 / 10493 (80°C/300 V)         Number of positions       4         Shelded       yes         Coductor structure signal line       42.0 10 mm         AWS signal line       22         Conductor structure signal line       4.03.4 mm* (Signal line)         Wrei diameter incl. insulation       1.27 mm ±0.02 mm (Signal line)         Conductor structure signal line       4.5.34 mm* (Signal line)         Meterial wite insulation       1.27 mm ±0.02 mm (Signal line)         Conductor structure signal line       4.5.34 mm* (Signal line)         Conductor insulation <td></td> <td>4 Nm</td>		4 Nm
Head design       Flush-type male connector         Head tread type       M12         Head thread type       M12         Head tocking type       SPEEDCON         Coding       A         Connection 2       Ifee cable end         Mad design       free cable end         Connection 2         Head design       1 m         PUR halogen-free black (PUR)         Dimensional drawing       Jife colspan="2">Jife colspan="2"         Colspan="2">Colspan="2"	Connector	
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Head thread type       M12         Head locking type       SPEEDCON         Coding       A         Connection 2       Free cable end         Head design       free cable end         Cable length       1 m         PUR halogen-free black (PUR)       Dimensional drawing         Dimensional drawing       Jimensional drawing         Cable weight       36 kg/km         UL AVMM Style       20549 / 10493 (80°C/300 V)         Number of positions       4         Shielded       yes         Cable kype       PUR halogen-free black (PUR)         Conductor structure signal line       42x 0.10 mm         AWG signal line       22         Conductor structure signal line       4x 0.34 mm² (Signal line)         AWG signal line       22         Orductor cross section       4x 0.34 mm² (Signal line)         Wire diameter incl. insulation       1.27 mm ±0.02 mm (Signal line)         External cable diameter       4.95 mm ±0.2 mm         Outer sheath, material       PUR         External sheath, color       Bare Outiz wires         Material wire insulation       PP         Single wire, color       black-gray RL 7021	Head design	Flush-type male connector
Head locking type       SPEEDCON         Coding       A         Connection 2       Image: Connection 2         Head design       free cable end         Cable length         PUR halogen-free black (PUR)         Dimensional drawing       Jumensional drawing         Cable weight       36 kg/km         ULAWM Style       20549 / 10493 (80°C/300 V)         Number of positions       4         Shielded       yes         Cable krype       PUR halogen-free black (PUR)         Outcor structure signal line       42x 0.10 mm         VKY signal line       22         Conductor structure signal line       42x 0.10 mm         VKY signal line       1.27 mm 40.02 mm (Signal line)         Wire diameter incl. insulation       1.27 mm 40.02 mm (Signal line)         Wire signal line (olor       4.95 mm ±0.2 mm         Outcer sheath, material       PUR         Pure Single wire, color       black-gray RAL 7021         Conductor or sterial       Bare Cuitz wires         Pure Single wire, color       black-gray RAL 7021	Head cable outlet	straight
Coding       A         Connection 2       Free cable end         Head design       free cable end         Cable length       1 m         PUR halogen-free black (PUR)       Dimensional drawing         Dimensional drawing       Jumensional drawing         Cable weight       36 kg/km         UL AWM Style       20549 / 10493 (80°C/300 V)         Number of positions       4         Shielded       yes         Cable kype       PUR halogen-free black (PUR)         Conductor structure signal line       4x 0.10 mm         AVG signal line       22         Conductor structure signal line       4x 0.34 mm² (Signal line)         Wird diameter incl. insulation       1.27 mm 40.02 mm (Signal line)         Wird signed ince incl. insulation       1.27 mm 40.02 mm (Signal line)         Outer sheath, material       PUR         External cable diameter       4.95 mm ±0.2 mm         Outer sheath, insterial       PUR         Bare Cuitz wises       Bare Cuitz wises         Material wire insulation       PP         Single wire, color       biack-gray RAL 7021	Head thread type	M12
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Head design       free cable end         Cable length       1 m         PUR halogen-free black [PUR]         Dimensional drawing       Jumensional drawing         Cable weight       36 kg/km         Cable weight       36 kg/km         UL AVMM Style       20549 / 10493 (60°C/300 V)         Number of positions       4         Shielded       yes         Cable veight line       22         Conductor structure signal line       4x 0.34 mm² (Signal line)         AWG signal line       22         Conductor ross section       4x 0.34 mm² (Signal line)         Wire diameter incl. insulation       1.27 mm ±0.02 mm         Vure diameter incl. insulation       1.27 mm ±0.02 mm         Outer sheath, material       PUR         External sheath, color       black-gray RAL 7021         Conductor material       Bace Cu litz wires         External sheath, color       black-gray RAL 7021         Single wire, color       brown, white, blue, black	Coding	A
Cable length       1 m          Dimensional drawing         Dimensional drawing       Image: Cable weight         Cable weight       36 kg/km         Lu AVM Style       20549 / 10493 (80°C/300 V)         Number of positions       4         Shielded       yes         Cable kgnal line       22         Conductor structure signal line       4x 0.34 mm² (Signal line)         AWG signal line       22         Conductor structure signal line       4x 0.34 mm² (Signal line)         Wire diameter incl. insulation       1.27 mm ±0.02 mm (Signal line)         Wire diameter incl. insulation       1.27 mm ±0.02 mm (Signal line)         Vire diameter incl. insulation       1.27 mm ±0.02 mm (Signal line)         Vire diameter incl. insulation       1.27 mm ±0.02 mm (Signal line)         Conductor rorss section       4x 0.34 mm² (Signal line)         Vire diameter incl. insulation       1.27 mm ±0.02 mm (Signal line)         External cable diameter       4.95 mm ±0.2 mm         Outer sheath, color       black-gray RAL 7021         Conductor material       Bare Cu itz wires         Material wire insulation       PP         Single wire, color       brown, white, blue, black	Connection 2	
Cable length       1 m            Dimensional drawing         Dimensional drawing         Cable weight         Cable weight         36 kg/m         UL AWM Style         20549 / 10493 (80°C/300 V)         Number of positions         4         Shielded         yes         Cable type         PUR halogen-free black [PUR]         Conductor structure signal line         42x 0.10 mm         AWG signal line         22         Conductor structure signal line         4WG signal line         22         Conductor cross section         4x 0.34 mm² (Signal line)         Wire diameter incl. insulation         1.27 mm ±0.02 mm (Signal line)         Wire diameter incl. insulation         1.27 mm ±0.2 mm         Outer sheath, material         PUR         Diack-gray RAL 7021         Conductor material         Pase Cu litz wires         Material wire insulation       PP         Single wire, color       brown, white, blue, black	Head design	free cable end
Cable length       1 m            Dimensional drawing         Dimensional drawing         Cable weight         Cable weight         36 kg/m         UL AWM Style         20549 / 10493 (80°C/300 V)         Number of positions         4         Shielded         yes         Cable type         PUR halogen-free black [PUR]         Conductor structure signal line         42x 0.10 mm         AWG signal line         22         Conductor structure signal line         4WG signal line         22         Conductor cross section         4x 0.34 mm² (Signal line)         Wire diameter incl. insulation         1.27 mm ±0.02 mm (Signal line)         Wire diameter incl. insulation         1.27 mm ±0.2 mm         Outer sheath, material         PUR         Diack-gray RAL 7021         Conductor material         Pase Cu litz wires         Material wire insulation       PP         Single wire, color       brown, white, blue, black	Cable / line	
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Cable weight36 kg/kmUL AWM Style20549 / 10493 (80°C/300 V)Number of positions4ShieldedyesCable typePUR halogen-free black [PUR]Conductor structure signal line42x 0.10 mmAWG signal line22Conductor cross section4x 0.34 mm² (Signal line)Wire diameter incl. insulation1.27 mm ±0.02 mm (Signal line)Vire diameter4.95 mm ±0.2 mmOuter sheath, materialPURExternal cable diameterBare Cu litz wiresMaterial wire insulationPPSingle wire, colorbrown, white, blue, black	PUR halogen-free black [PUR]	
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UL AWM Style20549 / 10493 (80°C/300 V)Number of positions4ShieldedyesCable typePUR halogen-free black [PUR]Conductor structure signal line42x 0.10 mmAWG signal line22Conductor cross section4x 0.34 mm² (Signal line)Wire diameter incl. insulation1.27 mm ±0.02 mm (Signal line)External cable diameter9UROuter sheath, materialPURExternal sheath, colorblack-gray RAL 7021Material wire insulationPPSingle wire, colorbrown, white, blue, black	Cable weight	36 kg/km
Number of positions4ShieldedyesCable typePUR halogen-free black [PUR]Conductor structure signal line42x 0.10 mmAWG signal line22Conductor cross section4x 0.34 mm² (Signal line)Wire diameter incl. insulation1.27 mm ±0.02 mm (Signal line)External cable diameter4.95 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorblack-gray RAL 7021Conductor materialPPMaterial wire insulationPPSingle wire, colorbrown, white, blue, black		
Cable typePUR halogen-free black [PUR]Conductor structure signal line42x 0.10 mmAWG signal line22Conductor cross section4x 0.34 mm² (Signal line)Wire diameter incl. insulation1.27 mm ±0.02 mm (Signal line)External cable diameter4.95 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorblack-gray RAL 7021Conductor materialPPMaterial wire insulationPPSingle wire, colorbrown, white, blue, black	Number of positions	4
Conductor structure signal line42x 0.10 mmAWG signal line22Conductor cross section4x 0.34 mm² (Signal line)Wire diameter incl. insulation1.27 mm ±0.02 mm (Signal line)External cable diameter4.95 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorblack-gray RAL 7021Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorbrown, white, blue, black	Shielded	yes
AWG signal line22Conductor cross section4x 0.34 mm² (Signal line)Wire diameter incl. insulation1.27 mm ±0.02 mm (Signal line)External cable diameter4.95 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorblack-gray RAL 7021Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorbrown, white, blue, black	Cable type	PUR halogen-free black [PUR]
Conductor cross section $4x 0.34 \text{ mm}^2$ (Signal line)Wire diameter incl. insulation $1.27 \text{ mm} \pm 0.02 \text{ mm}$ (Signal line)External cable diameter $4.95 \text{ mm} \pm 0.2 \text{ mm}$ Outer sheath, materialPURExternal sheath, colorblack-gray RAL 7021Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorbrown, white, blue, black	Conductor structure signal line	42x 0.10 mm
Wire diameter incl. insulation1.27 mm ±0.02 mm (Signal line)External cable diameter4.95 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorblack-gray RAL 7021Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorbrown, white, blue, black	AWG signal line	22
External cable diameter4.95 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorblack-gray RAL 7021Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorbrown, white, blue, black	Conductor cross section	4x 0.34 mm² (Signal line)
Outer sheath, materialPURExternal sheath, colorblack-gray RAL 7021Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorbrown, white, blue, black	Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)
External sheath, colorblack-gray RAL 7021Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorbrown, white, blue, black	External cable diameter	4.95 mm ±0.2 mm
Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorbrown, white, blue, black	Outer sheath, material	PUR
Material wire insulation     PP       Single wire, color     brown, white, blue, black	External sheath, color	black-gray RAL 7021
Single wire, color brown, white, blue, black	Conductor material	Bare Cu litz wires
	Material wire insulation	PP
Thickness, insulation ≥ 0.21 mm	Single wire, color	brown, white, blue, black
	Thickness, insulation	≥ 0.21 mm



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Thickness, outer sheath	approx. 0.5 mm
Overall twist	4 wires, twisted
Optical shield covering	80 %
Max. conductor resistance	max. 58 Ω/km (at 20 °C)
Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Wave impedance	≥ 62 Ω (f = 10 MHz)
Cable capacity	≤ 80 pF/m (Conductor-Conductor)
	≤ 135 pF/m (Wire/shield)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Max. bending cycles	1000000
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
Flame resistance	in accordance with UL 758/1581 FT2
	DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
	Resistant to salt water
	partly UV-resistant in accordance with DIN EN ISO 4892-2-A
	abrasion-resistant
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
	Low adhesion surface
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (Cable, flexible installation)

#### Ambient conditions

Degree of protection	IP67 (When plugged in)
	IP65 (When plugged in)
Degree of protection	IP65/IP67
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
	-40 °C 85 °C (without mechanical actuation)

### Standards and regulations

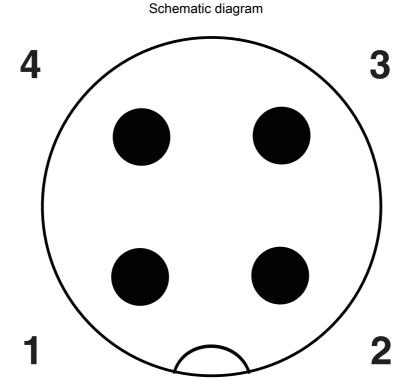
Standards/specifications	IEC 61076-2-101
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## Drawings

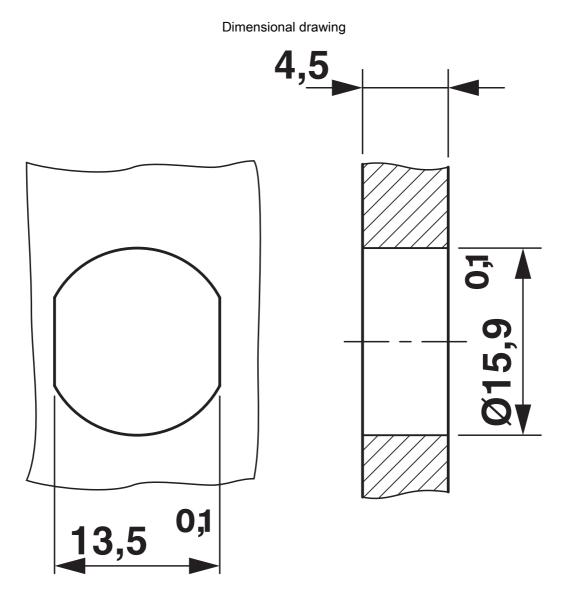


Pin assignment of M12 male connector, 4-pos., A-coded, view of connector side



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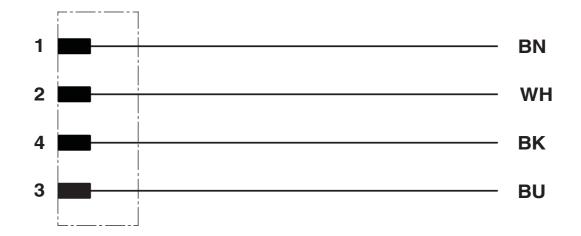
Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)



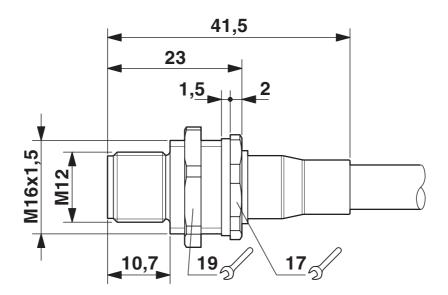
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Circuit diagram



Dimensional drawing

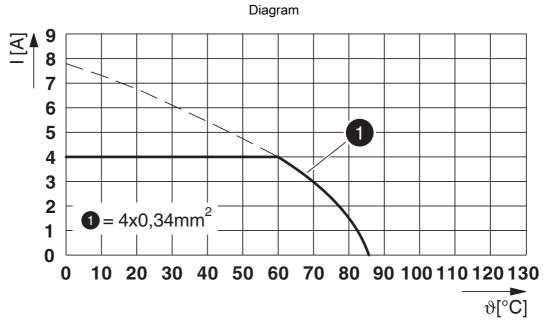


M12 flush-type connector



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I = current strength, T = ambient temperature



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### Approvals

ERC	EAC Approval ID: B.01687				
<b>.R</b> .	<b>cUL Recognized</b> Approval ID: E221474-2	0220908			
		Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		250 V	1.5 A	-	-
	UL Recognized				

Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
250 V	4 A	-	-

cULus Recognized



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## Classifications

### ECLASS

	ECLASS-9.0	27440102
	ECLASS-10.0.1	27440102
	ECLASS-11.0	27440102
ETIM		
	ETIM 8.0	EC002635
UNSPSC		
	UNSPSC 21.0	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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### Accessories

### Screw plug

Screw plug - SACC-M16-SEALING PLUG SET - 1453368 https://www.phoenixcontact.com/us/products/1453368



Screw plug, Rear mounting, M16 x 1.5 item no.: 1239800

### Sealing cap

Sealing cap - PROT-M12 FS - 1560251 https://www.phoenixcontact.com/us/products/1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field



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Sealing cap

Sealing cap - PROT-M12 FS-M - 1430488 https://www.phoenixcontact.com/us/products/1430488



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

### Flat gasket

Flat gasket - SACC-M16-SEAL CLM - 1430394 https://www.phoenixcontact.com/us/products/1430394

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



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