

SACC-M 8MR-3CON-M - Connector



1699902

<https://www.phoenixcontact.com/us/products/1699902>

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Connector, Universal, 3-position, Plug angled M8, coding: A, Solder connection, knurl material: Brass, nickel-plated, external cable diameter 3.5 mm ... 5 mm

Your advantages

- Safe use in the field, thanks to a high degree of protection

Commercial data

Item number	1699902
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF35
Product key	BF2BIA
Catalog page	Page 18 (C-2-2019)
GTIN	4017918574031
Weight per piece (including packing)	10.43 g
Weight per piece (excluding packing)	9.2 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.

Mounting

Assembly note

The connector pin assignment can be rotated 90° to the cable outlet

Product properties

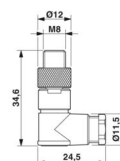
Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	angled

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing



Length

34.6 mm

External dimensions

Outside diameter

3.5 mm ... 5 mm

Housing

Diameter housing

12 mm

Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	PBT
Contact material	CuZn
Contact surface material	Au

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Contact carrier material	PA
Material for screw connection	Brass, nickel-plated

Connection data

Conductor connection

Connection method	Solder connection
Connection cross section	0.08 mm ² ... 0.25 mm ² (flexible)
	0.08 mm ² ... 0.25 mm ² (solid)
Connection cross section AWG	28 ... 24 (flexible)
	28 ... 24 (solid)
Stripping length of the individual wire	3 mm
Tightening torque	0.2 Nm (M8 knurl)

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A

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	M8
Coding	A

Cable/line

Signal type/category	Universal
Stripping length of the individual wire	3 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 85 °C

Standards and regulations

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M8

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

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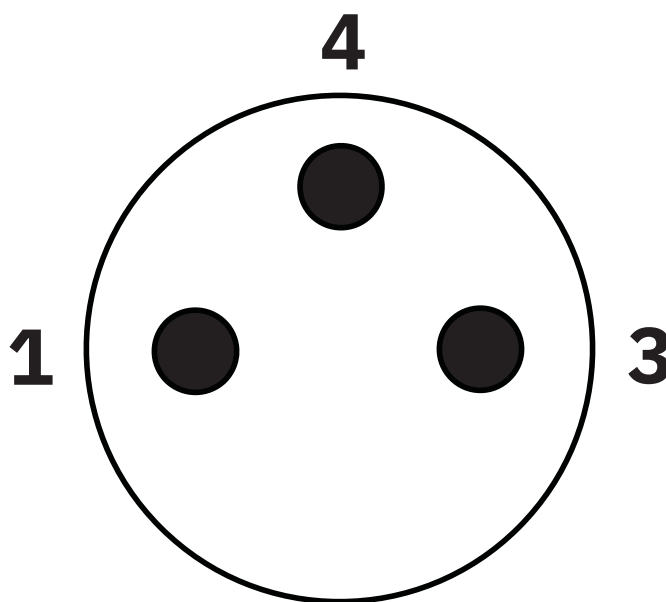
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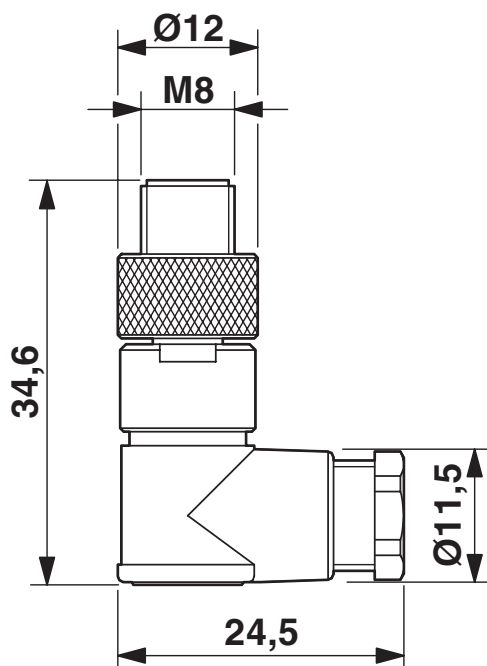
Drawings

Schematic diagram



Pin assignment M8 male connector, 3-pos.

Dimensional drawing



M8 x 1 male plug, angled version

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1699902>

<div>UL Listed Approval ID: FILE E 221474</div>				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	4 A	-	-

<div>cUL Listed Approval ID: FILE E 221474</div>				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	4 A	-	-

cULus Listed				
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Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 9.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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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	a546a377-7286-4e37-b493-396f69e2e8eb

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