SACC-M 8MS-4CON-M - Connector

1681169

https://www.phoenixcontact.com/us/products/1681169

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Connector, Universal, 4-position, Plug straight 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	1681169
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF35
Product key	AF2BIA
GTIN	4017918157517
Weight per piece (including packing)	10.51 g
Weight per piece (excluding packing)	8.63 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.

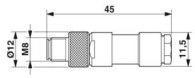
Product properties

Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	straight

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	45 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
Contact carrier material	PA
Material for screw connection	Brass, nickel-plated

Connection data

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Conductor connection

Connection method	Solder connection
Connection cross section	0.08 mm² ... 0.25 mm² (flexible)
	0.08 mm² ... 0.25 mm² (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	30 V AC
	30 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Head design	Plug
Head cable outlet	straight
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) (male connector/female connector)	-40 °C ... 85 °C

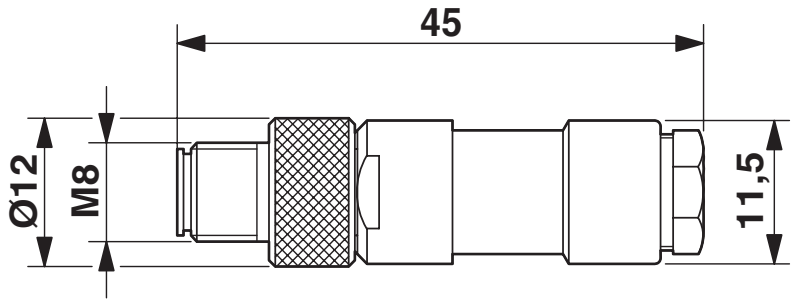
Standards and regulations

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

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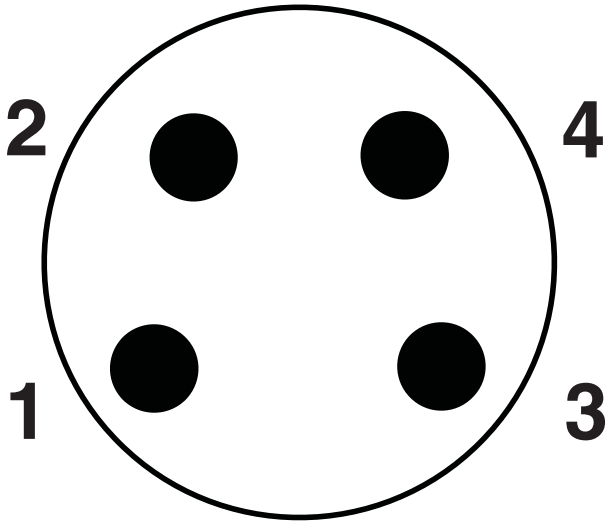
Drawings

Dimensional drawing



M8 x 1 male plug, straight version

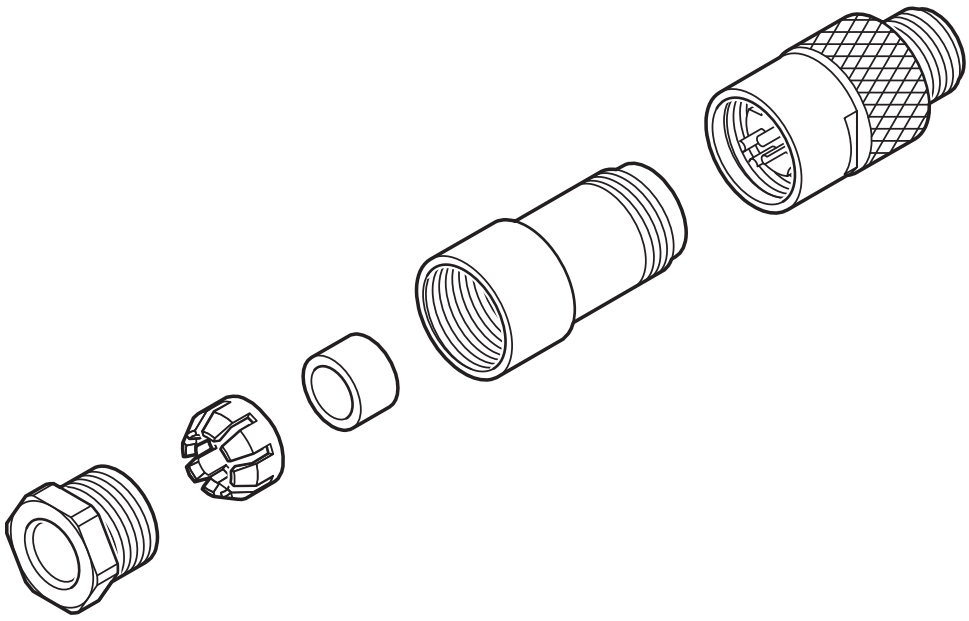
Schematic diagram



Pin assignment M8 plug, 4-pos., view male side

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Schematic diagram



1 = pressure screw
2 = clamp-type cage
3 = gasket
4 = housing
5 = male or female insert

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1681169

UL Listed
Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	30 V	4 A	-	-

cUL Listed
Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	30 V	4 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 9.0	EC002635

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	d3aad419-cb92-4b7a-b89f-c99232e2883d

EF3.0 Climate Change

CO2e kg	0.729 kg CO2e

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