SACC-M 8MS-3CON-M-SW - Connector

1501252

https://www.phoenixcontact.com/pc/products/1501252

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Connector, Universal, 3-position, Plug straight M8, coding: A, Screw 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
- Screw connection: proven connection technology for a large selection of different conductors

Commercial data

Item number	1501252
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF2BAA
GTIN	4017918612795
Weight per piece (including packing)	10.9 g
Weight per piece (excluding packing)	8.7 g
Customs tariff number	85366990
Country of origin	DE

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 wires can be connected both with ferrules (without insulation) and without ferrules.

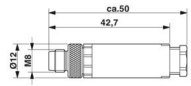
Product properties

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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	12 mm
Height	12 mm
Length	50 mm

External dimensions

Outside diameter	3.5 mm ... 5 mm

Housing

Diameter housing	12 mm

Material specifications

Flammability rating according to UL 94	HB
Material grommet GRP	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

Conductor connection

Connection method	Screw connection
Connection cross section	0.14 mm² ... 0.5 mm² (without ferrule)
	0.08 mm² ... 0.5 mm² (with ferrule)
	0.14 mm² ... 0.5 mm² (solid)
Connection cross section AWG	26 ... 20 (without ferrule)
Stripping length of the individual wire	4 mm
Tightening torque	0.2 Nm (M8 knurl)
	0.5 Nm (Connector with coupling sleeve)
	0.3 Nm ... 0.4 Nm (Pressure screw for outer cable diameter 3 mm ... 4 mm)
	0.8 Nm ... 1 Nm (Pressure screw in the case of external cable diameter 4 mm ... 5 mm)
	0.1 Nm (Screw terminal blocks)

Electrical properties

Rated surge voltage	1.5 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

Connector

Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M8
Coding	A

Interfaces

Signal type/category	Universal

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67

Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C (Plug / socket)

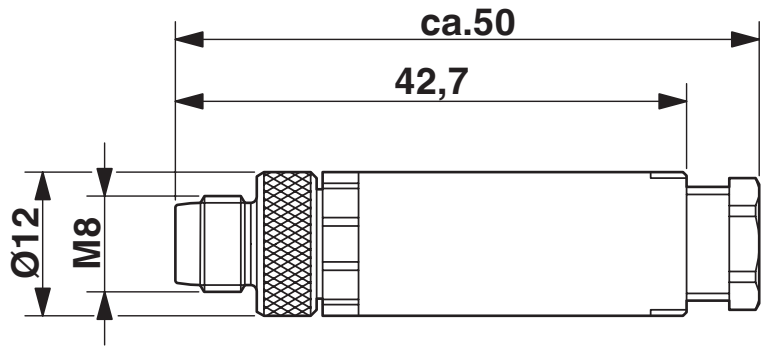
Standards and regulations

M8

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

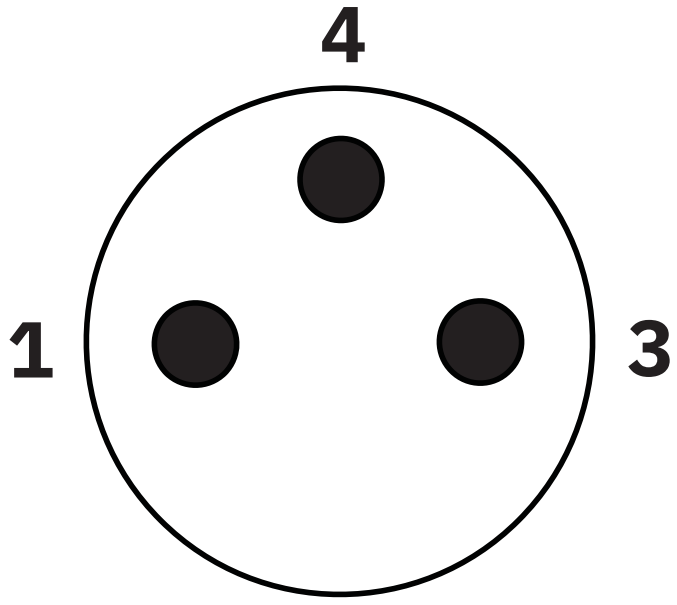
Drawings

Dimensional drawing



M8 x 1 male plug, straight version

Schematic diagram



M8 plug pin assignment, 3-pos., view of pin side

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1501252

UL Listed
Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	60 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				
	60 V	4 A	-	-

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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	47c81d55-f76e-43d3-9f1e-32c1d2e26181

EF3.1 Climate Change

CO2e kg	0.678 kg CO2e

Accessories

SACC-M 8-SET/2,2-3,5 - Connector

1436945

https://www.phoenixcontact.com/pc/products/1436945



Sensor/actuator connector, accessories, pressure screw and seal, for unshielded M8 connector, cable diameter 2.2 mm - 3.5 mm

PROT-M 8 FS-PA-CHAIN - Sealing cap

1430857

https://www.phoenixcontact.com/pc/products/1430857

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 plugs



SAC-3P-100,0-PUR/0,25 - Cable reel

1501689

https://www.phoenixcontact.com/pc/products/1501689



By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 3-wire, color single wire: brown, blue, black, cable length: 100 m

SAC-3P-100,0-PUR/0,34 - Cable reel

1501650

https://www.phoenixcontact.com/pc/products/1501650



By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 3-wire, color single wire: brown, blue, black, cable length: 100 m

TSD 02 SAC - Torque screwdriver

1208487

https://www.phoenixcontact.com/pc/products/1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

SACC BIT M8-D12 - Tool

1208474

https://www.phoenixcontact.com/pc/products/1208474



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 12 mm, for 4 mm hexagonal drive

TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/pc/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/pc/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com