

Connector - SACC-M 8MS-3QO-0,5-M



1441024

<https://www.phoenixcontact.com/pc/products/1441024>

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Connector, Universal, 3-position, Plug straight M8, A-coded, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 2.5 mm ... 5 mm

Your advantages

- Safe use in the field, thanks to a high degree of protection
- Insulation displacement connection: innovative and time-saving assembly without stripping the single wire

Commercial Data

Item number	1441024
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	BF2BCA
Catalog Page	Page 201 (C-6-2019)
GTIN	4046356515917
Weight per Piece (including packing)	8.26 g
Weight per Piece (excluding packing)	8.2 g
Customs tariff number	85366990
Country of origin	DE

Technical Data

Notes

Assembly instruction:	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.
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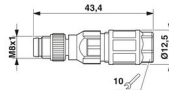
Product properties

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

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	43.4 mm

External dimensions

Outside diameter	2.5 mm ... 5 mm ±0.2 mm
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Housing

Diameter housing	12.5 mm
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Material specifications

Color Handle area	black
Flammability rating according to UL 94	HB
Sealing material	NBR
Material of grip body	PA 6
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated
Wire insulation material	PVC / PE / PP / rubber

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Connection data

Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.25 mm ² ... 0.5 mm ²
Connection cross section AWG	24 ... 20
Tightening torque	0.2 Nm (M8 knurl)
	0.6 Nm (Pressure nut)

Pin assignment

Contact Color (signal designation) Contact (optional)	1 = BN
	3 = BU
	4 = BK

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 5 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	straight
Head thread type	M8
Coding	A-coded

Cable / line

Signal type/category	Universal
External cable diameter	2.5 mm ... 5 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 80 °C (Plug / socket)

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Standards and regulations

M8

Standards/specifications
IEC 61076-2-104

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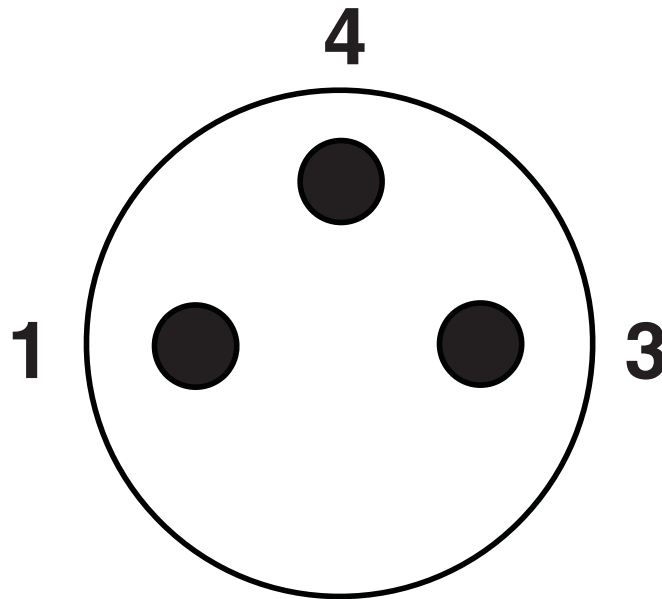
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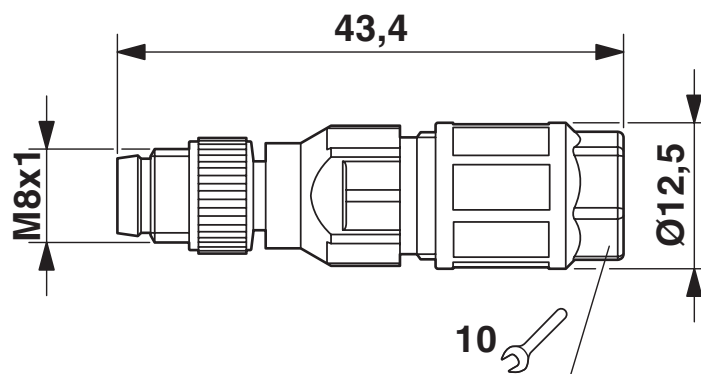
Drawings

Schematic diagram



Pin assignment M8 plug, 3-pos., view male side

Dimensional drawing

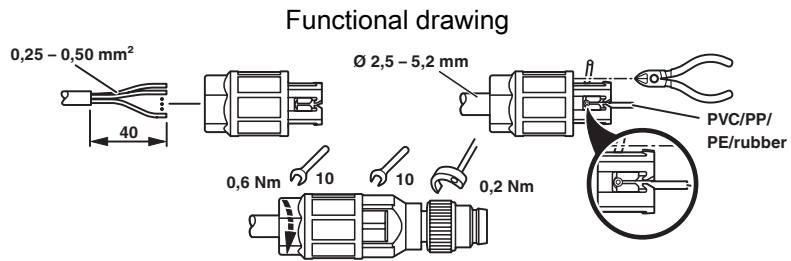


M8 x 1 male plug, straight version

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Approvals

 cUL Recognized Approval ID: FILE E 118976				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	29 V	4 A	24 - 20	-

 UL Recognized Approval ID: FILE E 118976				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	29 V	4 A	24 - 20	-

 EAC Approval ID: RU C-DE.AI30.B.01102				
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 EAC Approval ID: EAC-Zulassung				
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 EAC Approval ID: RU C-DE.BL08.B.00511				
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cULus Recognized				
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Classifications

ECLASS

ECLASS-10.0.1	27440102
ECLASS-9.0	27440102
ECLASS-11.0	27440102

ETIM

ETIM 8.0	EC002635
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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

Torque screwdriver

Torque screwdriver - TSD 02 SAC - 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

Tool

Tool - SAC BIT M8-D10 - 1208461

<https://www.phoenixcontact.com/pc/products/1208461>



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 10 mm, for 4 mm hexagonal drive

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Torque screwdriver

Torque screwdriver - TSD-M 1,2NM - 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

Adapter insert

Adapter insert - TSD-M SAC-BIT ADAPTER - 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

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Sealing cap

Sealing cap - PROT-M 8 FS-PA-CHAIN - 1430857

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

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



Cable reel

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



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Cable reel

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

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