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Connector, Universal, 8-position, Plug straight M12, A-coded, Screw connection, knurl material: Nickel-plated brass, cable gland Pg11, external cable diameter 8 mm ... 10 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	1410666
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF2CAA
Product Key	BF2CAA
Catalog Page	Page 22 (C-2-2019)
GTIN	4046356904650
Weight per Piece (including packing)	30.1 g
Weight per Piece (excluding packing)	24.82 g
Customs tariff number	85366990
Country of origin	DE

Connector - SACC-M12MS-8CON-PG11-M

1410666

https://www.phoenixcontact.com/gb/products/1410666

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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.

Product properties

Product type	Circular connector (cable-side)
Number of positions	8
No. of cable outlets	1
Shielded	no
Coding	A - standard
Cable outlet	straight
Pg screw connection	Pg11

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	20 mm
Height	20 mm
Length	62 mm

External dimensions

Outside diameter	8 mm ... 10 mm

Housing

Diameter housing	20 mm

Material specifications

Color Handle area	black
Flammability rating according to UL 94	HB
Sealing material	Silicon
Material of grip body	PBT
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Cable gland material	Nickel-plated brass

Connection data

Conductor connection

Connection method	Screw connection
Connection cross section	0.25 mm² ... 0.5 mm² (without ferrule)
	0.14 mm² ... 0.34 mm² (with ferrule)
	0.25 mm² ... 0.5 mm² (solid)
Connection cross section AWG	24 ... 20 (without ferrule)
	26 ... 22 (with ferrule)
Stripping length of the individual wire	5 mm
Tightening torque	0.4 Nm (M12 knurl)
	0.2 Nm (Screw terminal blocks)
	1 Nm (Pressure screw with sleeve housing)

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 8 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	2 A

Connector

Insertion/withdrawal cycles	≥ 100

Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12
Coding	A-coded

Cable / line

Signal type/category	Universal
Stripping length of the individual wire	5 mm

Ambient conditions

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

Standards and regulations

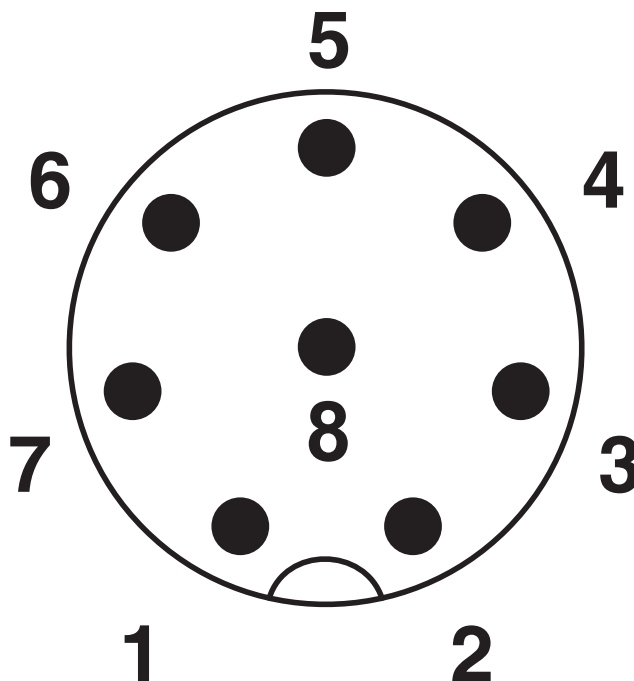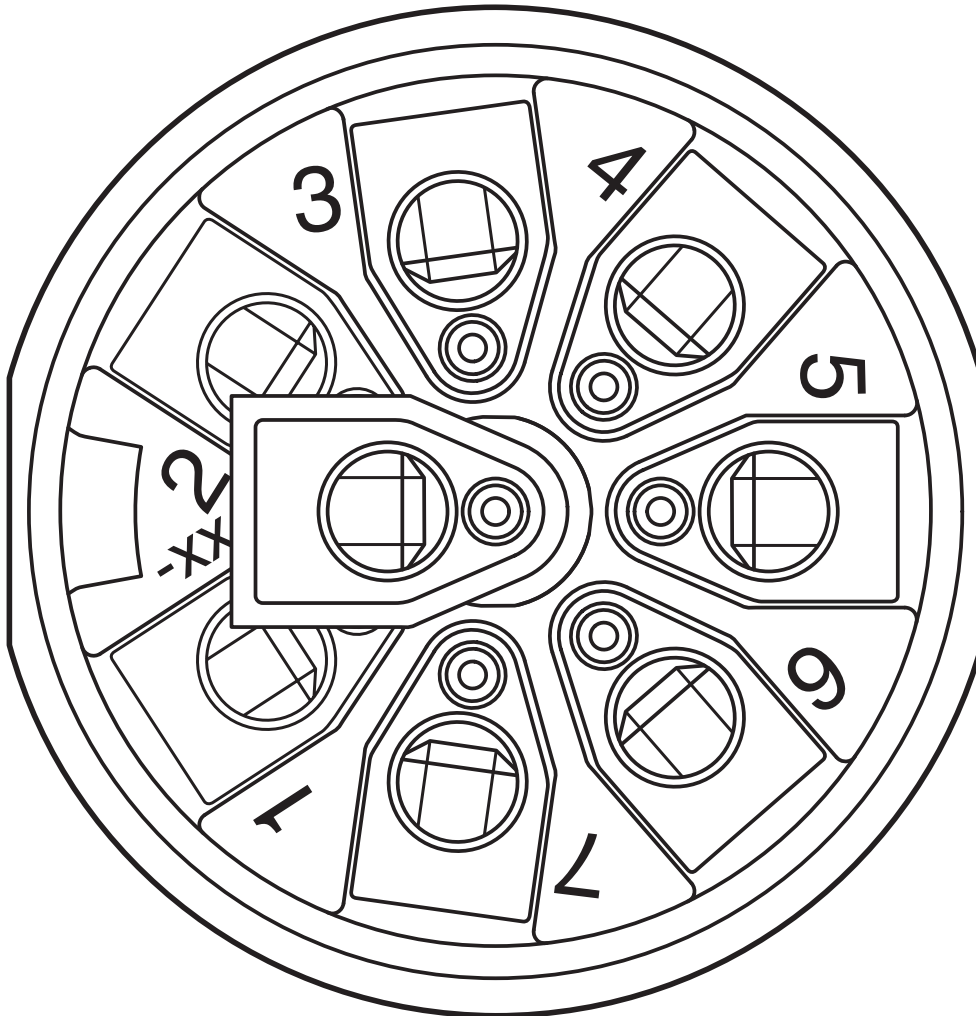|	
Standards/specifications	IEC 61076-2-101

Drawings

Dimensional drawing
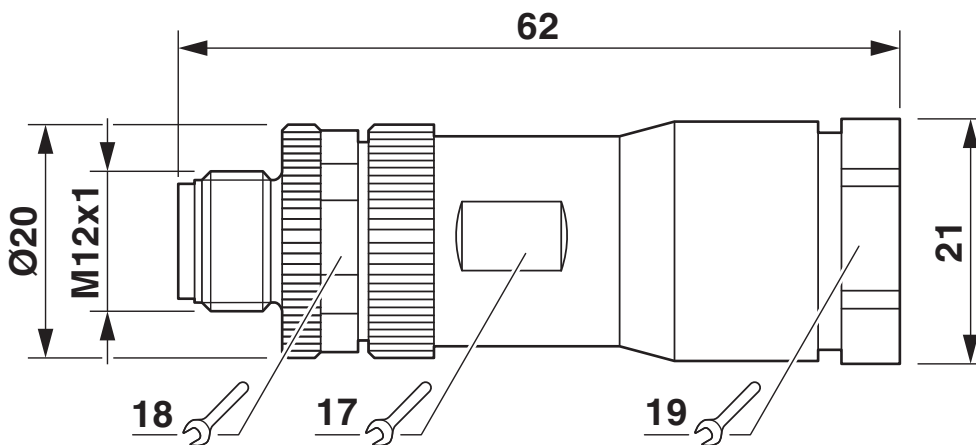
Plug, M12 x 1, straight

Schematic diagram

Pin assignment M12 plug, 8-pos., A-coded, view plug side

Schematic diagram

Cable connection side M12 (screw connection)

Approvals

cUL Recognized
Approval ID: FILE E 221474

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	30 V	2 A	-	-

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cULus Recognized

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

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"

Accessories

Torque screwdriver

Torque screwdriver - TSD 04 SAC - 1208429

https://www.phoenixcontact.com/gb/products/1208429

Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

Torque screwdriver

Torque screwdriver - TSD-M 1,2NM - 1212224

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

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

Connector - SACC-M12MS-8CON-PG11-M

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https://www.phoenixcontact.com/gb/products/1410666

Adapter insert

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600

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

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

Tool

Tool - SACC BIT M12-D20 - 1208445

https://www.phoenixcontact.com/gb/products/1208445

Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

Connector - SACC-M12MS-8CON-PG11-M

Sealing cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

https://www.phoenixcontact.com/gb/products/1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs

Ferrule

Ferrule - A 0,25- 5 - 3202465

https://www.phoenixcontact.com/gb/products/3202465

Ferrule, length: 5 mm, color: silver

Crimping pliers

Crimping pliers - CRIMPFOX 6H - 1212046

https://www.phoenixcontact.com/gb/products/1212046

Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm^2 ... 6 mm^2, unlockable pressure lock, lateral entry

Stripping tool

Stripping tool - WIREFOX SAC - 1212623

https://www.phoenixcontact.com/gb/products/1212623

Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

Stripping tool

Stripping tool - VS-CABLE-STRIP-VARIO - 1657407

https://www.phoenixcontact.com/gb/products/1657407

Stripping tool, for the multi-level stripping of shielded cables

Screwdriver

Screwdriver - SZS 0,4X2,0 - 1205202

https://www.phoenixcontact.com/gb/products/1205202

Micro screwdriver, bladed, size: 0.4 x 2.0 x 60 mm, 2-component grip, with non-slip grip and twist cap

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