SACC-M12MSD-4Q SH PN - Data connector

1554513

https://www.phoenixcontact.com/in/products/1554513

Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug straight M12, D, Insulation displacement connection, knurl material: Nickel-plated brass, external cable diameter 4 mm ... 8 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

• Reliable signal transmission – 360° shielding in environments with electromagnetic interference

Commercial Data

Item number	1554513
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF2
Product Key	BF2CDN
Catalog Page	Page 237 (C-4-2013)
GTIN	4046356166201
Weight per Piece (including packing)	42.6 g
Weight per Piece (excluding packing)	41 g
Customs tariff number	85366990
Country of origin	DE

Technical Data

Notes

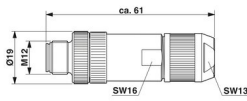|	
General	This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 8.2 Connectors for Outside Environment (Balanced cabling)
Assembly instruction:	NOTE: Observe the permissible bending radii when laying 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	4
Application	Data
No. of cable outlets	1
Shielded	yes
Coding	D
Cable outlet	straight

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	19 mm
Height	19 mm
Length	61 mm

External dimensions

Outside diameter	4 mm ... 8 mm

Housing

Diameter housing	19 mm

Material specifications

Flammability rating according to UL 94	V0
Seal material	Neoprene
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn

Contact surface material	Ni/Au
Contact carrier material	PA 6
Material for screw connection	Nickel-plated brass

Connection data

Conductor connection

Connection method	Insulation displacement connection
Connection cross section AWG	23 ... 22
Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	1.75 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12
Coding	D

Cable/line

Signal type/category	PROFINET CAT5 (on the basis of IEC 11801), 100 Mbps

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

M12

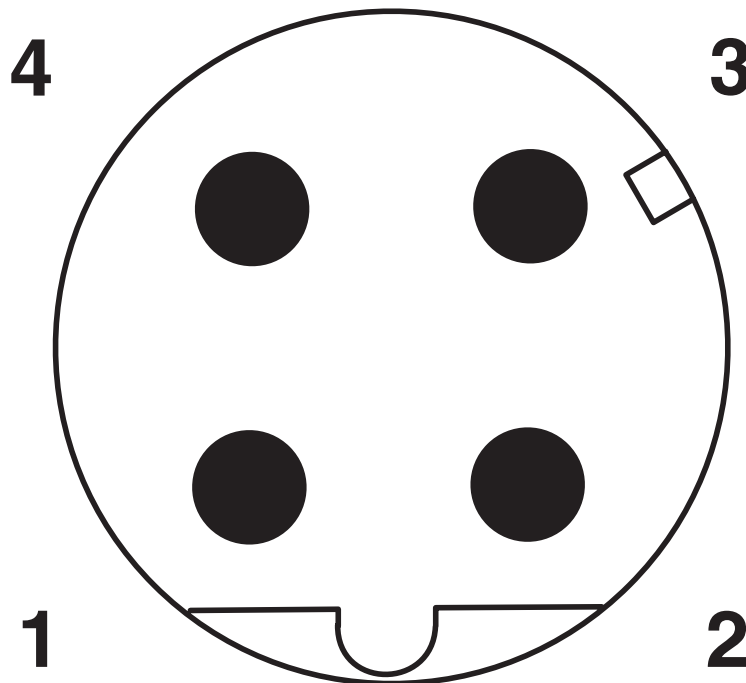| Standards/specifications	according to IEC 61076-2-101

Drawings

Dimensional drawing
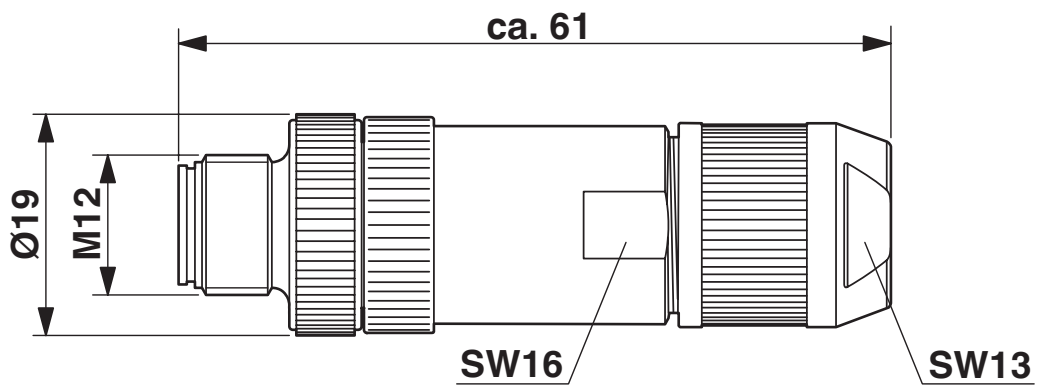
Plug, M12 x 1, straight, shielded

Schematic diagram

Pin assignment M12 male connector, 4-pos., D-coded, male side

Approvals

	EAC
	Approval ID: RU C-DE.AI30.B.01102

	EAC
	Approval ID: RU C-DE.BL08.B.00511

Classifications

ECLASS

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

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"

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Accessories

TSD 04 SAC - Torque screwdriver

1208429

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

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

SACC BIT M12-D20 - Tool

1208445

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

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

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TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/in/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/in/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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TSD 08 SAC - Torque screwdriver

1212597

https://www.phoenixcontact.com/in/products/1212597

Torque screw driver with preset torque of 0.8 Nm, with 4 mm hexagon for accommodating SAC bits, two-component handle with non-slip grip

PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

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

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

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VS-OE-OE-93B/... - Data cable

1417362

https://www.phoenixcontact.com/in/products/1417362

Data cable, PROFINET CAT5 (100 Mbps), 4-position, shielded, free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)

VS-OE-OE-93C/... - Data cable

1417491

https://www.phoenixcontact.com/in/products/1417491

Data cable, PROFINET CAT5 (100 Mbps), 4-position halogen-free, shielded, free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)

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VS-OE-OE-93R/... - Data cable

1417388

https://www.phoenixcontact.com/in/products/1417388

Data cable, PROFINET CAT5 (100 Mbps), 4-position halogen-free, shielded, free cable end, on free cable end, cable length: Free input (0.5 ... 100 m)

VS-OE-OE-936/... - Data cable

1417375

https://www.phoenixcontact.com/in/products/1417375

Data cable, PROFINET CAT5 (100 Mbps), 4-position halogen-free, shielded, free cable end, on free cable end, cable length: Free input (0.5 ... 100 m)

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VS-OE-OE-937/... - Data cable

1402687

https://www.phoenixcontact.com/in/products/1402687

Data cable, PROFINET CAT5 (100 Mbps), 4-position halogen-free, shielded, free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)

WIREFOX-D 40 - Stripping tool

1212161

https://www.phoenixcontact.com/in/products/1212161

Stripping tool, for stripping cables of 4.5 mm - 40 mm-Ø, insulation thickness of up to 4.5 mm, pivoting blade for round, lengthwise, and spiral cuts

MICROFOX-SB - Diagonal cutter

1212489

https://www.phoenixcontact.com/in/products/1212489

Electronic diagonal cutter, round head, without chamfer, with opening spring, mirror-polished and oiled, 2-component grip, cutting capacity: soft 0.2 - 2.0 mm; medium hard 1.2 mm; hard 0.5 mm diameter

ALU-SB - Shielding foil

1404531

https://www.phoenixcontact.com/in/products/1404531

Shielding foil, for fixing the braided shield of shielded cables. Length: 4 cm, width: 1.2 cm