Data connector - SACC-M12MR-8Q SH

1553653

https://www.phoenixcontact.com/in/products/1553653

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Data connector, Ethernet CAT5 (1 Gbps), 8-position, shielded, Plug angled M12, Coding: A, 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	1553653
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF2
Product Key	BF2CDI
Catalog Page	Page 343 (C-2-2019)
GTIN	4046356158824
Weight per Piece (including packing)	48.7 g
Weight per Piece (excluding packing)	48.4 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.

Product properties

Product type	Circular connector (cable-side)
Number of positions	8
No. of cable outlets	1
Shielded	yes
Coding	A - standard
Cable outlet	angled

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)
Ambient temperature (assembly)	-5 °C ... 50 °C

Dimensions
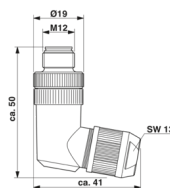
Dimensional drawing	
Length	50 mm

External dimensions

Outside diameter	4 mm ... 8 mm

Housing

Diameter housing	19 mm

Connector

Insertion/withdrawal cycles	≥ 100

Header 1

Head design	Plug
Head cable outlet	angled

Head thread type	M12
Coding	A-coded

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	2 A

Material specifications

Flammability rating according to UL 94	V0
Sealing material	Neoprene
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA6
Cable gland material	Nickel-plated brass

Connection data

Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.14 mm² ... 0.34 mm²
Connection cross section AWG	26 ... 22
Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)

Mounting

Assembly instructions	The connector pin assignment can be rotated 45° to the cable outlet

Standards and regulations

M12

Standards/specifications	according to IEC 61076-2-101

Cable / line

Cable structure

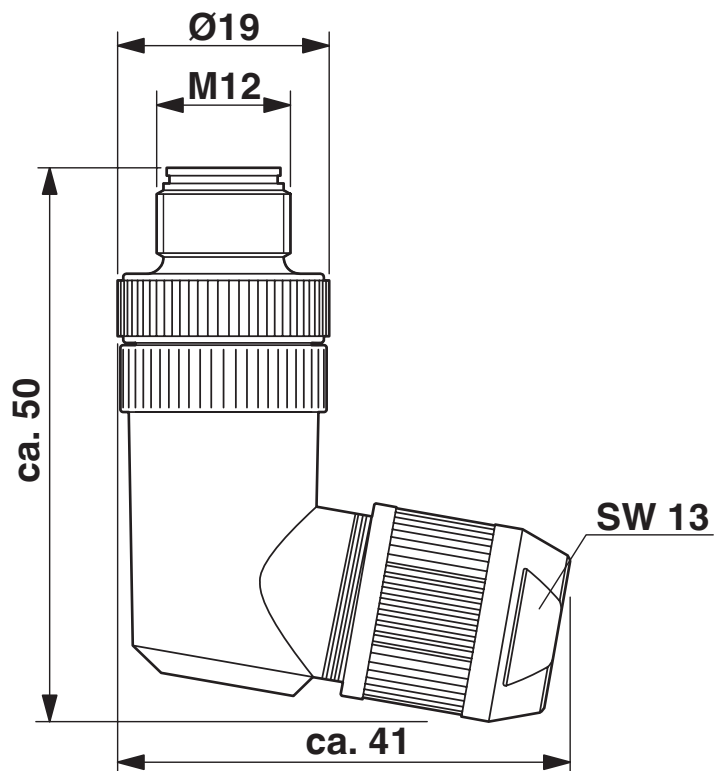| Signal type/category	Ethernet CAT5 (on the basis of IEC 11801), 1 Gbps

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Drawings

Dimensional drawing
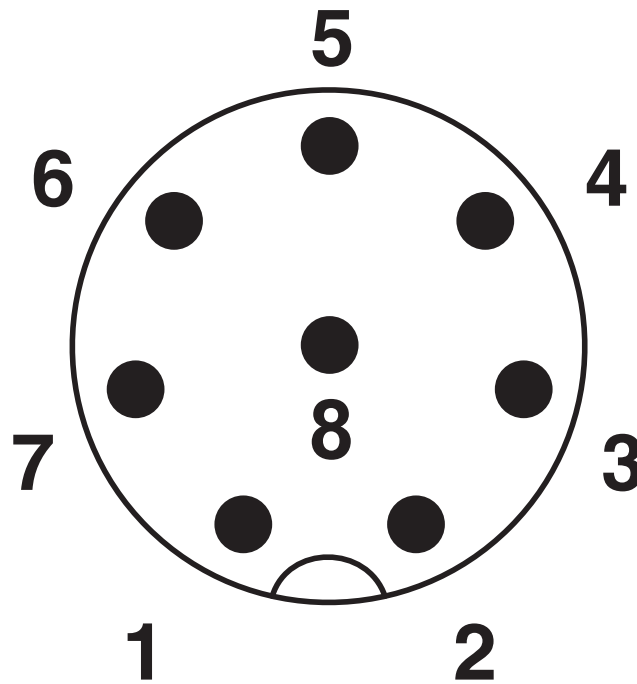
Ø19

M12

ca. 50

SW 13

ca. 41

M12 x 1 male plug, angled, shielded

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Schematic diagram

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

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Approvals

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

EAC
Approval ID: EAC-Zulassung

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

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

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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 04 SAC - 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

Tool

Tool - SACC BIT M12-D20 - 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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Torque screwdriver

Torque screwdriver - TSD-M 1,2NM - 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

Adapter insert

Adapter insert - TSD-M SAC-BIT ADAPTER - 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

Torque screwdriver

Torque screwdriver - TSD 08 SAC - 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

Sealing cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 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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Network cable

Network cable - VS-OE-OE-94B/... - 1417333

https://www.phoenixcontact.com/in/products/1417333

Network cable, Ethernet CAT5 (1 Gbps), 8-position halogen-free, shielded, free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)

Network cable

Network cable - VS-OE-OE-94C/... - 1417346

https://www.phoenixcontact.com/in/products/1417346

Network cable, Ethernet CAT5 (1 Gbps), 8-position halogen-free, shielded, free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m), For drag chains

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Network cable

Network cable - VS-OE-OE-94F/... - 1417359

https://www.phoenixcontact.com/in/products/1417359

Network cable, Ethernet CAT6$_A$ (10 Gbps), 8-position halogen-free, shielded, free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)

Stripping tool

Stripping tool - WIREFOX-D 40 - 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

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Diagonal cutter

Diagonal cutter - MICROFOX-SB - 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

Shielding foil

Shielding foil - ALU-SB - 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

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Stripping tool

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

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

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