PHŒNIX CONTACT

Bus system connector - SACC-M12MSD-4CON-PG 7-SH - 1521258

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Bus system connector, PROFINET CAT5 (100 Mbps), PROFINET CAT5e (100 Mbps), 4-position, shielded, Plug straight M12, D-coded, Screw connection, Knurl material: Nickel-plated brass, Cable gland Pg7, External cable diameter 4 mm ... 6 mm

Why buy this product

☑ Safe use in the field, thanks to a high degree of protection

☑ Flexible: connectors for on-site assembly

☑ Screw connection: proven connection technology for a large selection of different conductors

☑ Reliable signal transmission - 360° shielding in environments with electromagnetic interference

Ethernet **PROFINET** **sercos** the automation bus

Key commercial data

Packing unit	1 pc
GTIN	4 017918 968601
Weight per Piece (excluding packing)	48.0 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

External diameter	4 mm ... 6 mm
Stripping length of the sheath	35 mm
Stripping length of the individual wire	5 mm

Ambient conditions

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

General

Note	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)
Rated current at 40°C	4 A

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Technical data

General

Rated voltage	60 V
Number of positions	4
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Coding	D - data
Standards/regulations	M12 connector IEC 61076-2-101
Signal type/category	PROFINET CAT5, 100 Mbps
	PROFINET CAT5e, 100 Mbps
Status display	No
Surge voltage category	II
Pollution degree	3
Connection method	Screw connection
Conductor cross section	0.25 mm² ... 0.75 mm²
AWG conductor cross section	24 ... 18
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 knurl)
	0.2 Nm (Screw terminal blocks)
	0.8 Nm ... 1 Nm (Pressure screw)
Tightening torque	Screw plug insert with sleeve housing as far it will go
Assembly instructions	The wires can be connected both with ferrules and without ferrules

Material

Inflammability class according to UL 94	HB
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 66
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	Nickel-plated brass
Sealing material	NBR

Classifications

eCl@ss

eCl@ss 4.0	27140815
eCl@ss 4.1	27140815
eCl@ss 5.0	27143423
eCl@ss 5.1	27143423
eCl@ss 6.0	27143423
eCl@ss 7.0	27449001
eCl@ss 8.0	27449001

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Classifications

ETIM

ETIM 2.0	EC001121
ETIM 3.0	EC002062
ETIM 4.0	EC002062
ETIM 5.0	EC002062

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

Approvals

Approvals

Approvals

GOST / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

GOST

UL Recognized	
Nominal current IN	4 A
Nominal voltage UN	60 V

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Approvals

cUL Recognized c**⚡**	
Nominal current IN	4 A
Nominal voltage UN	60 V

cULus Recognized c**⚡**us

Accessories

Accessories

Cable by the meter

Sensor/Actuator cable - SAC-4P-100,0-PUR/SH-0,25 - 1535794

Cable ring, black halogen-free PUR, 4-pos., shielded, 4 x 0.25 mm², conductor colors: brown/white/blue/black, cable length: 100 m

Sensor/Actuator cable - SAC-4P-100,0-PUR/SH-0,34 - 1501715

Cable ring, PUR halogen-free black, 4-pos., shielded, conductor colors: Brown/white/blue/black, cable length: 100 m

Connector

Ferrule - A 0,25- 5 - 3202465

Ferrule, Length: 5 mm, Color: silver

Crimping tool

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Accessories

Crimping pliers - CRIMPFOX 6H - 1212046

Crimping pliers, for ferrules according to DIN 46228, 0.14 - 6 mm², pressure lock can be unlocked, lateral entry

Protective cap

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

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

Screwdriver tools

Tool - SACC BIT M12-D20 - 1208445

Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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

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

Torque tool

Torque screwdriver - TSD 04 SAC - 1208429

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

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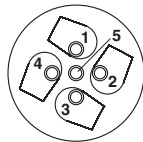
Accessories

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

Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm
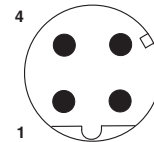
Drawings
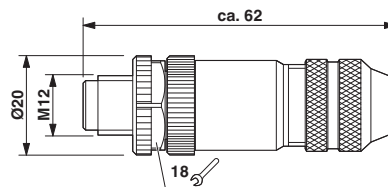
Schematic diagram

Cable connection side M12 (screw connection)

Schematic diagram

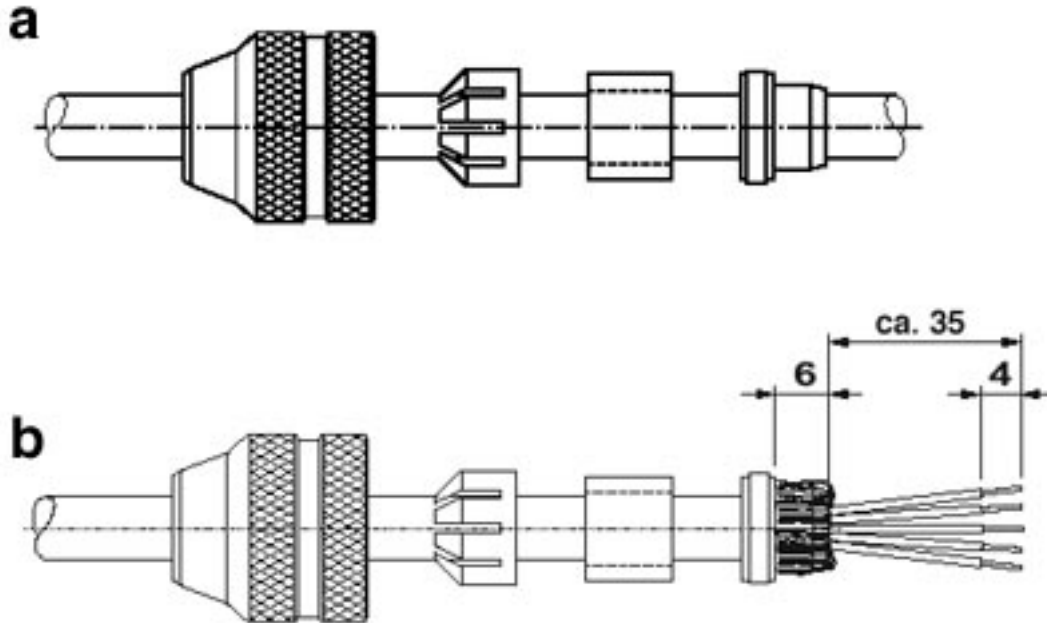Pin assignment M12 male connector, 4-pos., D-coded, male side

Dimensioned drawing

Plug, M12 x 1, straight, shielded

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Functional drawing

a

b

ca. 35

6

4

Assembly steps for M12 male/female plug and conductor
a = Slide on parts
b= Strip conductor, widen shield and lay around the shielding ring, cut off projecting mesh. Slide cores through the housing. Mount shielding ring, gasket and clamping cage. Tighten pressure screw to fix the cable. Screw down cores. Mount male/female part. Tighten pressure screw.