PHŒNIX CONTACT

Bus system connector - SACC-M12MSD-4CT SH PN - 1411046

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Bus system connector, PROFINET CAT5, 4-position, shielded, Plug straight M12, D-coded, Crimp connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 8 mm

RoHS

Ethernet **PROFI NET** ® **sercos** the automation bus

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 920216
GTIN	4046356920216
Weight per Piece (excluding packing)	22.220 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Diameter housing	20.2 mm
Length	73 mm
External cable diameter	5 mm ... 8 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
Degree of protection	IP67

General

Note	Order crimp contacts separately
	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
Rated voltage	60 V DC
	48 V AC

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Technical data

General

Number of positions	4
Insulation resistance	≥ 10 GΩ
Coding	D - data
Standards/regulations	M12 connector IEC 61076-2-101
Signal type/category	PROFINET CAT5 (on the basis of IEC 11801)
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Crimp connection
Conductor cross section	0.34 mm² ... 0.5 mm²
Conductor cross section AWG	22 ... 20
Insertion/withdrawal cycles	≥ 100
Torque	0.6 Nm (M12 knurl)
	1 Nm (Connector with coupling sleeve)
	1 Nm (Pressure nut with coupling sleeve)

Material

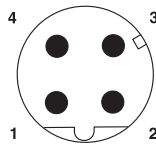| Flammability rating according to UL 94	HB
Contact carrier material	PA
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	FPM (O-ring)
	NBR (Cable clamping)

Standards and Regulations

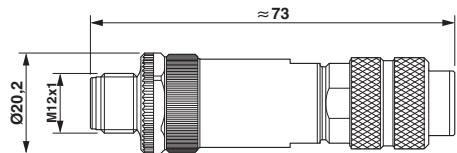| Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	HB

Drawings

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Schematic diagram

Dimensional drawing

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

Plug, M12 x 1, straight, shielded

Classifications

eCl@ss

eCl@ss 5.1	27260701
eCl@ss 6.0	27279221
eCl@ss 8.0	27440104
eCl@ss 9.0	27440102

ETIM

ETIM 4.0	EC002635
ETIM 5.0	EC002635
ETIM 6.0	EC002635

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC	EAC	RU C-DE.AI30.B.01102

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Accessories

Accessories

Crimp contact

Crimp contact - SACC-CC1,0-T-0,50-M AU PU100 - 1412351

Crimp contact, contact diameter: 1 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 0.34 mm² ... 0.5 mm² AWG 22 ... 20

Data cable by the meter

Network cable - VS-OE-OE-93E-100,0 - 1416295

Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, free cable end, on free cable end, cable length: 100 m

Network cable - VS-OE-OE-93B-100,0 - 1416389

Network cable, PROFINET CAT5 (100 Mbps), 4-position, PVC, green RAL 6018, shielded, free cable end, on free cable end, cable length: 100 m

Network cable - VS-OE-OE-93C-100,0 - 1416376

Network cable, PROFINET CAT5 (100 Mbps), 4-position, PUR halogen-free, green RAL 6018, shielded, free cable end, on free cable end, cable length: 100 m, For drag chains

Network cable - VS-OE-OE-93R-100,0 - 1416363

Network cable, PROFINET CAT5 (100 Mbps), 4-position, PUR halogen-free, green RAL 6018, shielded, free cable end, on free cable end, cable length: 100 m, For robots

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Accessories

Network cable - VS-OE-OE-936-100,0 - 1416570

Network cable, PROFINET CAT5 (100 Mbps), 4-position, PE-X halogen-free, black RAL 9005, shielded, free cable end, on free cable end, cable length: 100 m, For railway applications

Network cable - VS-OE-OE-93G-100,0 - 1419152

Network cable, EtherCAT® CAT5 (100 Mbps), 4-position, PVC, green RAL 6018, shielded, free cable end, on free cable end, cable length: 100 m

Network cable - VS-OE-OE-93K-100,0 - 1419173

Network cable, Sercos CAT5 (100 Mbps), 4-position, PVC/PVC, Red RAL 3020, shielded, free cable end, on free cable end, cable length: 100 m

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 plugs

Screwdriver tools

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

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Tool - SACC BIT M12-D20 - 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 tool

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

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

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Necessary add-on products

Crimp contact - SACC-CC1,0-T-0,50-M AU PU100 - 1412351

Crimp contact, contact diameter: 1 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 0.34 mm² ... 0.5 mm² AWG 22 ... 20

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