

## Bus system connector - SACC-M12FSD-4Q SH PN - 1554526

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Bus system connector, PROFINET CAT5, PROFINET CAT5e, 4-position, shielded, Socket straight M12, D-coded, Insulation displacement connection, Knurl material: Nickel-plated brass, External cable diameter 4 mm ... 8 mm

### Why buy this product

- Safe use in the field, thanks to a high degree of protection
- Flexible: connectors for on-site assembly
- Insulation displacement connection: innovative and time-saving assembly without stripping the single wire
- Reliable signal transmission - 360° shielding in environments with electromagnetic interference



### Key commercial data

Packing unit	1 pc
GTIN	 4 046356 166218
Weight per Piece (excluding packing)	51.34 g
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### Dimensions

External diameter	4 mm ... 8 mm
Stripping length of the sheath	35 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
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	1.75 A
Rated voltage	60 V

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### Technical data

#### General

Number of positions	4
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	D - data
Standards/regulations	M12 connector IEC 61076-2-101
Signal type/category	PROFINET CAT5 (IEC 11801:2002)
	PROFINET CAT5e (TIA 568B:2001)
Status display	No
Surge voltage category	II
Pollution degree	3
Connection method	Insulation displacement connection
Conductor cross section	0.14 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>
AWG conductor cross section	26 ... 22
Frequency of connections between conductors of the same cross section	≤ 10
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)

#### Material

Inflammability class according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 66
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	Nickel-plated brass
Sealing material	Neoprene

### Classifications

#### eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27061801

#### ETIM

ETIM 3.0	EC002062
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## Classifications

### ETIM

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

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Approvals

GOST

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Ex Approvals

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Approvals submitted

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### Approval details

GOST
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## Accessories

### Accessories

Data cable by the meter

Network cable - VS-OE-OE-93B/... - 1417362



Network cable, PROFINET CAT5 (100 Mbps), PROFINET CAT5e (100 bps), 4-position, PVC, Green RAL 6018, shielded, Free cable end, on Free cable end, Cable length: Free entry (0.5 ... 400.0 m)

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### Accessories

Network cable - VS-OE-OE-93C/... - 1417491



Network cable, PROFINET CAT5 (100 Mbps), PROFINET CAT5e (100 bps), 4-position, PUR halogen-free, Green RAL 6018, shielded, Free cable end, on Free cable end, Cable length: Free entry (0.5 ... 400.0 m), For drag chains

Network cable - VS-OE-OE-93R/... - 1417388



Network cable, PROFINET CAT5 (100 Mbps), PROFINET CAT5e (100 Mbps), 4-position, PUR halogen-free, Green RAL 6018, shielded, Free cable end, on Free cable end, Cable length: Free input (0.5 ... 100.0 m), For robots

Network cable - VS-OE-OE-936/... - 1417375



Network cable, PROFINET CAT5 (100 Mbps), PROFINET CAT5e (100 bps), 4-position, RADOX<sup>®</sup> GKW S halogen-free, Black RAL 9005, shielded, Free cable end, on Free cable end, Cable length: Free input (0.5 ... 100.0 m), For railway applications

Network cable - VS-OE-OE-937/... - 1402687



Network cable, PROFINET CAT5 (100 Mbps), PROFINET CAT5e (100 Mbps), 4-position, RADOX<sup>®</sup> GKW S halogen-free, Black RAL 9005, shielded, Free cable end, on Free cable end, Cable length: Free entry (0.5 ... 400.0 m), For railway applications

### Protective cap

Screw plug - PROT-M12 MS-PA-CHAIN - 1430899

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



### Screwdriver tools

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### Accessories

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

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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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### Shield connection

Shielding foil - ALU-SB - 1404531



Aluminum shielding tape, for fixing the braided shield of shielded cables. Length: 4 cm, width: 1.2 cm

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### Stripping tool

Stripping tool - WIREFOX-D 40 - 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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### 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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Torque screwdriver - TSD-M 1,2NM - 1212224



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

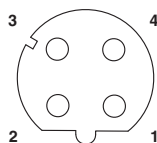
Torque screwdriver - TSD 08 SAC - 1212597



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

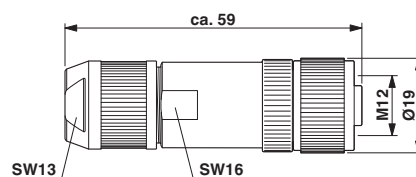
## Drawings

Schematic diagram



Pin assignment M12 socket, 4-pos., D-coded, female side

Dimensioned drawing



M12 x 1 socket, straight