

## Connector - SACC-MSD-4PL SH PN SCO - 1424682

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug straight M12 SPEEDCON, D-coded, Spring-cage connection, Knurl material: Zinc die-cast, nickel-plated, 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
- ✓ Save time, thanks to installation with SPEEDCON fast locking system
- ✓ Spring-cage connection: connect more securely, even in the case of shock and vibration, thanks to high contact forces
- ✓ Reliable signal transmission - 360° shielding in environments with electromagnetic interference
- ✓ Easy tool free wiring with the push-in connection
- ✓ Quick and easy installation, thanks to Push-in connection technology



### Key Commercial Data

Packing unit	1
GTIN	 4 055626 376097
GTIN	4055626376097

### Technical data

#### Dimensions

External diameter	4 mm ... 8 mm
Stripping length of the sheath	32 mm
Stripping length of the individual wire	6 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)
Degree of protection	IP65

# Connector - SACC-MSD-4PL SH PN SCO - 1424682

## Technical data

### Ambient conditions

	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
Rated voltage	60 V DC
	48 V AC
Number of positions	4
Insulation resistance	≥ 100 MΩ
Coding	D - data
Standards/regulations	M12 connector IEC 61076-2-101
	Shock, vibration EN 50155:2001
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Spring-cage connection
Conductor cross section	0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
	0.08 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (with ferrule)
Conductor cross section AWG	26 ... 18
	28 ... 20 (with ferrule)
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)
Assembly instructions	The wires can be connected both with ferrules and without ferrules

### Material

Flammability rating according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

### Standards and Regulations

# Connector - SACC-MSD-4PL SH PN SCO - 1424682

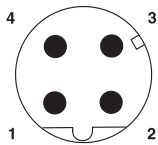
## Technical data

### Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Standard designation	Shock, vibration
Standards/regulations	EN 50155:2001
Flammability rating according to UL 94	V0

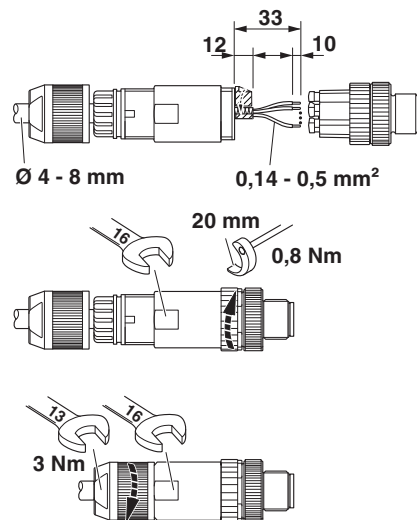
## Drawings

Schematic diagram



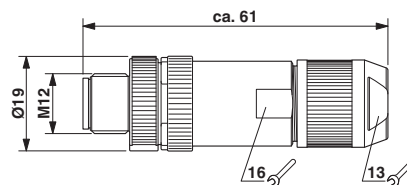
Pin assignment M12 male connector, 4-pos., D-coded, male side

Functional drawing



Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single wires, connect the wires, in the case of a straight sleeve housing gently twist the wires together, stick the shielding foil around the shortened shield, in the case of a cable outside diameter < 6 mm stick an additional shielding foil around the wire pack, screw the sleeve housing to the plug insert, screw the pressure nut tight.

Dimensional drawing



M12 SPEEDCON plug, straight, shielded

# Connector - SACC-MSD-4PL SH PN SCO - 1424682

## Classifications

eCl@ss

eCl@ss 5.1	27143423
eCl@ss 6.0	27279218
eCl@ss 7.0	27440104
eCl@ss 8.0	27440104
eCl@ss 9.0	27440102

ETIM

ETIM 5.0	EC002635
----------	----------

## Approvals

Approvals

---

Approvals

EAC

---

Ex Approvals

---

Approval details

EAC		EAC-Zulassung
-----	--	---------------

## Accessories

Accessories

Connector

Ferrule - A 0,25- 5 - 3202465



Ferrule, Sleeve length: 5 mm, Length: 5 mm, Color: silver

## Connector - SACC-MSD-4PL SH PN SCO - 1424682

### Accessories

Ferrule - AI 0,25- 6 YE - 3203024



Ferrule, Sleeve length: 6 mm, Length: 10.5 mm, Color: yellow

---

Ferrule - A 0,34- 7 - 3009202



Ferrule, Sleeve length: 7 mm, Length: 7 mm, Color: silver

---

Ferrule - A 0,5 - 6 - 3200218



Ferrule, Sleeve length: 6 mm, Length: 6 mm, Color: silver

---

Ferrule - AI 0,5 - 6 WH - 3200687



Ferrule, Sleeve length: 6 mm, Length: 12 mm, Color: white

---

### Crimping tool

Crimping pliers - CRIMPFOX 6H - 1212046



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm<sup>2</sup> ... 6 mm<sup>2</sup>, unlockable pressure lock, lateral entry

---

## Connector - SACC-MSD-4PL SH PN SCO - 1424682

### Accessories

#### Data cable by the meter

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



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

---

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



Network cable, PROFINET CAT5 (100 Mbps), 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), 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), 4-position, PE-X 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), 4-position, PE-X 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

---

## Connector - SACC-MSD-4PL SH PN SCO - 1424682

### Accessories

#### 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 M12 connectors for assembly with a knurl diameter of 20 mm, 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

---

#### Shield connection

Shielding foil - ALU-SB - 1404531

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



---

#### Stripping tool

## Connector - SACC-MSD-4PL SH PN SCO - 1424682

### Accessories

Stripping tool - WIREFOX 2,5 - 1212368



Stripping tool, for conductors and cables with a conductor cross section from 0.08 to 2.5 mm, self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid

---

### 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

---

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

---

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



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

---

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



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



