

Data connector - SACC-M12FSX-8QO SH PN



1414587

<https://www.phoenixcontact.com/us/products/1414587>

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Data connector, PROFINET CAT6_A (10 Gbps), 8-position, halogen-free, shielded, Socket straight M12 SPEEDCON, Coding: X, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

Your advantages

- Safe use in the field, thanks to a high degree of protection
- Save time, thanks to installation with SPEEDCON fast locking system
- Reliable signal transmission - 360° shielding in environments with electromagnetic interference
- Insulation displacement connection: innovative and time-saving assembly without stripping the single wire

Commercial Data

Item number	1414587
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	B07
Product Key	BF2CDN
Catalog Page	Page 344 (C-2-2017)
GTIN	4055626029245
Weight per Piece (including packing)	47.4 g
Weight per Piece (excluding packing)	47.4 g
Customs tariff number	85366990
Country of origin	DE

Data connector - SACC-M12FSX-8QO SH PN



1414587

<https://www.phoenixcontact.com/us/products/1414587>

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

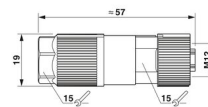
Product type	Circular connector (cable-side)
Number of positions	8
No. of cable outlets	1
Shielded	yes
Coding	X - data
Cable outlet	straight

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing



Length

57 mm

External dimensions

Outside diameter	5 mm ... 9.7 mm
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Housing

Diameter housing	19 mm
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Material specifications

Flammability rating according to UL 94	V0
Sealing material	NBR
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Cable gland material	Zinc die-cast, nickel-plated
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
Wire insulation material	PVC / PE / PP / rubber

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1414587

<https://www.phoenixcontact.com/us/products/1414587>

Connection data

Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.25 mm² ... 0.5 mm² (flexible)
	0.25 mm² ... 0.5 mm² (solid)
Connection cross section AWG	24 ... 20 (flexible)
	24 ... 20 (solid)
Tightening torque	M12 knurl
	5 Nm (Pressure nut)

Pin assignment

Contact Color (signal designation) Contact (optional)	1 = YE
	2 = OG
	3 = WH
	4 = BU

Electrical properties

Rated surge voltage	0.8 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	0.5 A

Connector

Insertion/withdrawal cycles	≥ 100
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Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	X-coded

Cable / line

Signal type/category	PROFINET CAT6 _A (IEC 11801), 10 Gbps
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Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)
Ambient temperature (assembly)	-5 °C ... 50 °C

Standards and regulations

Testing

Data connector - SACC-M12FSX-8QO SH PN



1414587

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Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
Standards/specifications	based on IEC 61076-2-109
Standards/specifications	EN 50155:2001

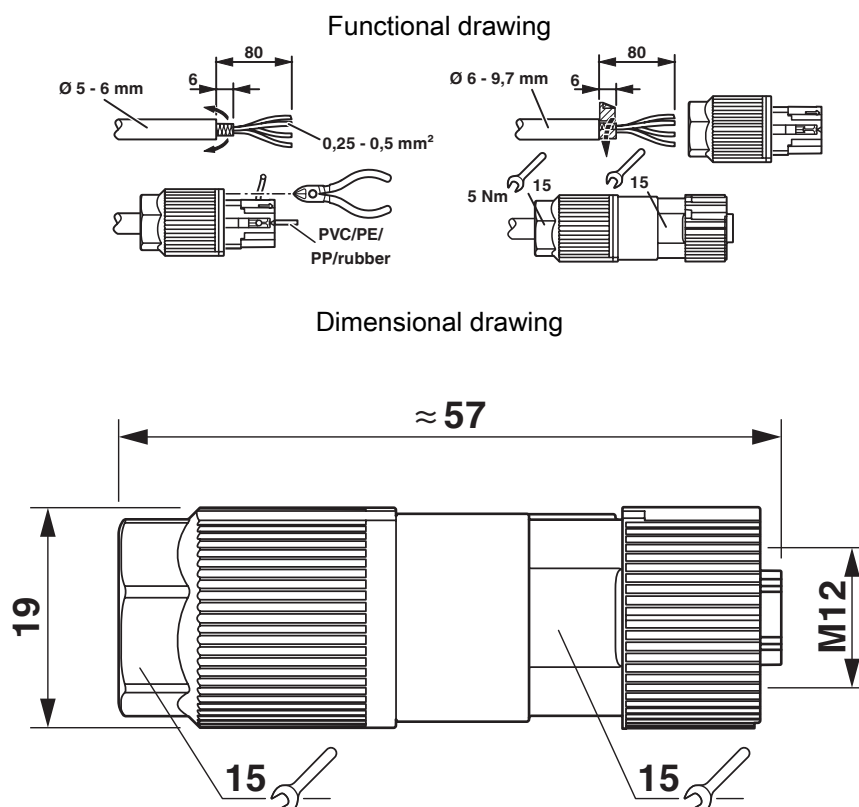
Data connector - SACC-M12FSX-8QO SH PN



1414587

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Drawings



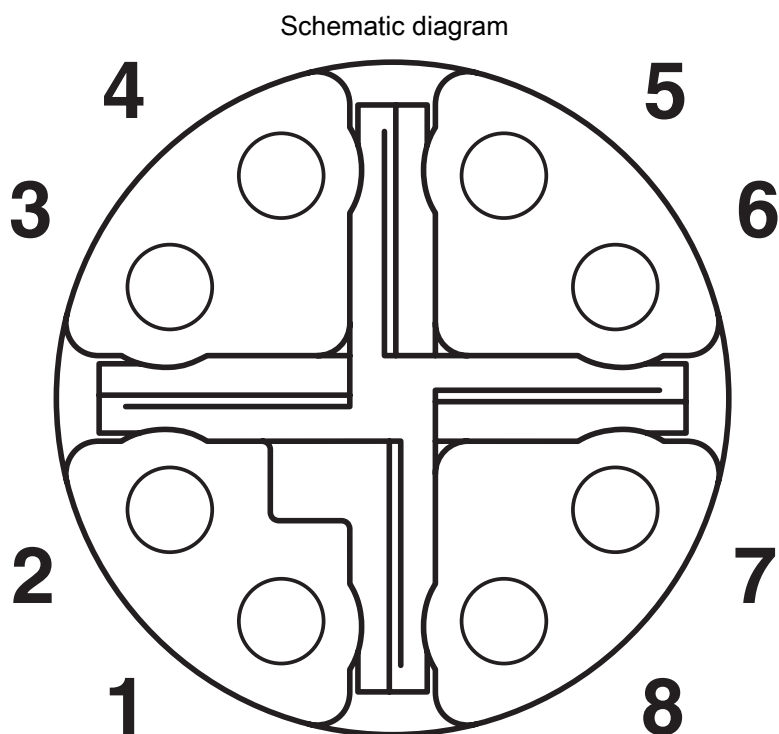
M12 x 1 socket, straight, shielded

Data connector - SACC-M12FSX-8QO SH PN



1414587

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M12 socket pin assignment, 8-pos, view of socket side

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1414587

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Approvals



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



UL Listed
Approval ID: E335024-20120831



cUL Listed
Approval ID: E335024-20120831

cULus Listed

Data connector - SACC-M12FSX-8QO SH PN



1414587

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Classifications

ECLASS

ECLASS-9.0	27440102
ECLASS-10.0.1	27440102
ECLASS-11.0	27440102

ETIM

ETIM 8.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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Data connector - SACC-M12FSX-8QO SH PN



1414587

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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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1414587

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Accessories

Shielding foil

Shielding foil - VS-08-RJ45-FOLIEN-SET - 1417184

<https://www.phoenixcontact.com/us/products/1417184>

Shielding foil set, 25 pieces, replacement for RJ45 and M12 Quickon connector



Torque screwdriver

Torque screwdriver - TSD 04 SAC - 1208429

<https://www.phoenixcontact.com/us/products/1208429>

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



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1414587

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Tool

Tool - SACC BIT M12-D20 - 1208445

<https://www.phoenixcontact.com/us/products/1208445>

Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive



Torque screwdriver

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

<https://www.phoenixcontact.com/us/products/1212224>

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



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Adapter insert

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

<https://www.phoenixcontact.com/us/products/1212600>



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

Screw plug

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

<https://www.phoenixcontact.com/us/products/1430899>



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

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1414587

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Stripping tool

Stripping tool - WIREFOX-D 40 - 1212161

<https://www.phoenixcontact.com/us/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

Diagonal cutter

Diagonal cutter - MICROFOX-SB - 1212489

<https://www.phoenixcontact.com/us/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

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1414587

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Stripping tool

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

<https://www.phoenixcontact.com/us/products/1657407>

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



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