PHŒNIX CONTACT

Sensor/actuator connector - SACC-MS-8QO-0,5 SH SCO - 1414610

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Sensor/actuator connector, halogen-free, shielded, Plug straight M12 SPEEDCON, A-coded, Insulation displacement connection, Knurl material: Zinc die-cast, nickel-plated

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

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

RoHS SPEEDCON LOCKING

Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	40.000 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Wrench size, union nut	15 mm
External diameter	5 mm ... 9.7 mm
Stripping length of the sheath	≥ 80 mm

Ambient conditions

Ambient temperature (assembly)	-5 °C ... 50 °C
Degree of protection	IP65
	IP67

General

Rated current at 40°C	2 A

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Technical data

General

Rated voltage	30 V AC/DC
Number of positions	8
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Overvoltage category	III
Degree of pollution	3
Connection method	Insulation displacement connection
Conductor cross section	0.14 mm² ... 0.5 mm²
Conductor cross section AWG	26 ... 20
Wire diameter including insulation	0.75 mm ... 2 mm
Frequency of connections between conductors of the same cross section	10
Wire insulation material	PVC / PE / PP / rubber
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	Class 2-6
Insertion/withdrawal cycles	≥ 100
Torque	M12 knurl
	5 Nm (Pressure nut)

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/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Standards and Regulations

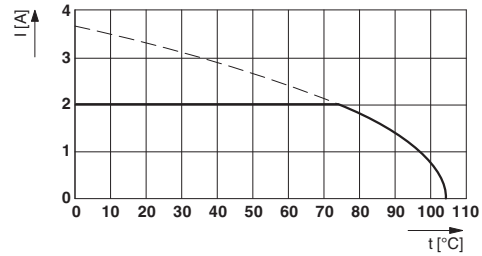|	
Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	V0

Drawings

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Schematic diagram
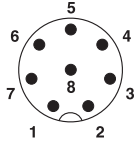
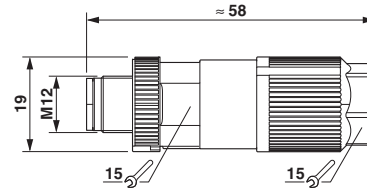Pin assignment of M12 plug, 8-pos., A-coded, view of plug side

Diagram

Functional drawing

Ø 5 - 6 mm   6   80

0,14 - 0,5 mm²

Ø 6 - 9,7 mm   6   80

PVC/PE/PP/rubber

15 5Nm   15
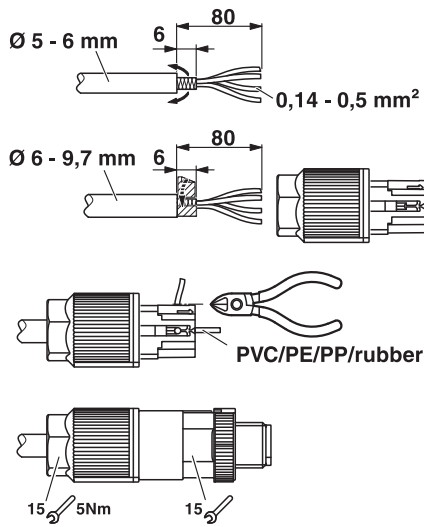
Dimensional drawing

≈ 58

M12   19

15   15

Plug, M12 x 1, straight, shielded

Classifications

eCl@ss

eCl@ss 5.1	27143423
eCl@ss 6.0	27279221
eCl@ss 8.0	27440104
eCl@ss 9.0	27440102

ETIM

ETIM 5.0	EC002062

Approvals

Approvals

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Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC	EAC-Zulassung

Accessories

Accessories

Electronics pliers

Diagonal cutter - MICROFOX-SP-1 - 1212487

Electronic diagonal cutter, tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version

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

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Accessories

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

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

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-M 1,2NM - 1212224

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

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

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

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Accessories

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

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