

SACC-M12FSX-8QO SH PN - Data connector



1414587

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

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 documentation. Our general terms of use for downloads are valid.



Data connector, PROFINET CAT6_A (10 Gbps), 8-position, halogen-free, shielded, Socket straight M12, 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
- Insulation displacement connection: innovative and time-saving assembly without stripping the single wire
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1414587
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF2CDN
Product key	BF2CDN
Catalog page	Page 344 (C-2-2017)
GTIN	4055626029245
Weight per piece (including packing)	47 g
Weight per piece (excluding packing)	47.4 g
Customs tariff number	85366990
Country of origin	DE

SACC-M12FSX-8QO SH PN - Data connector



1414587

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

Technical data

Notes

Assembly note

NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

Product properties

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

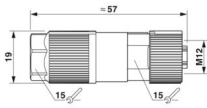
Data management status

Article revision	06
------------------	----

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	57 mm
Wrench size, union nut	15 mm

External dimensions

Outside diameter	5 mm ... 9.7 mm
------------------	-----------------

Housing

Diameter housing	19 mm
------------------	-------

Material specifications

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

SACC-M12FSX-8QO SH PN - Data connector



1414587

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

Contact carrier material	PA 6.6
Material for screw connection	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

Connection data

Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.25 mm ² ... 0.5 mm ² (flexible)
	0.25 mm ² ... 0.5 mm ² (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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	-------

Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	X

Cable/line

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

SACC-M12FSX-8QO SH PN - Data connector



1414587

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

Environmental and real-life conditions

Ambient conditions

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

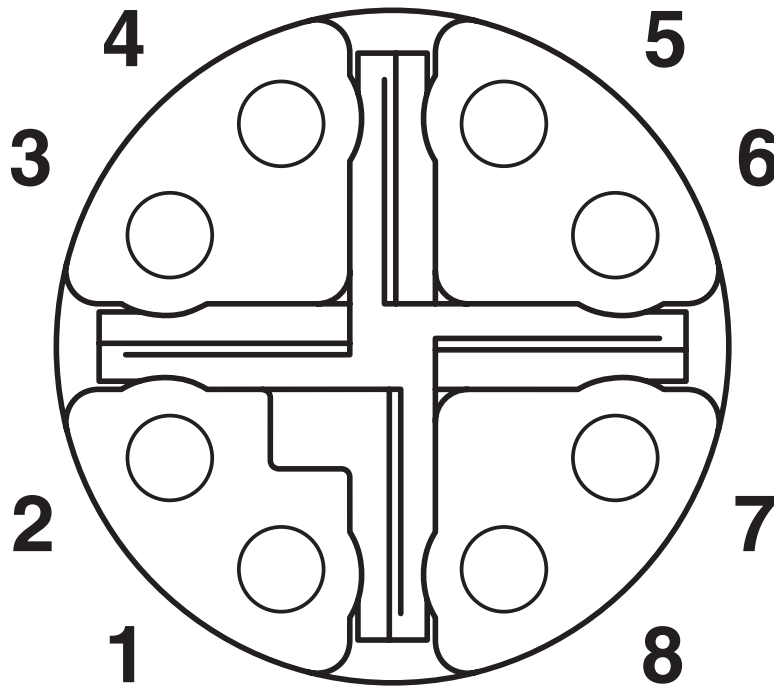
Standards and regulations

Testing

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)
Standard designation	M12 connector
Standards/specifications	based on IEC 61076-2-109
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001

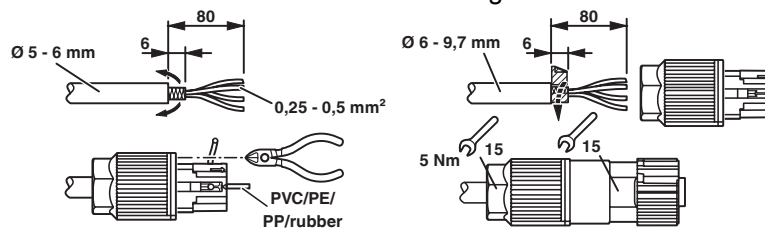
Drawings

Schematic diagram



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

Functional drawing



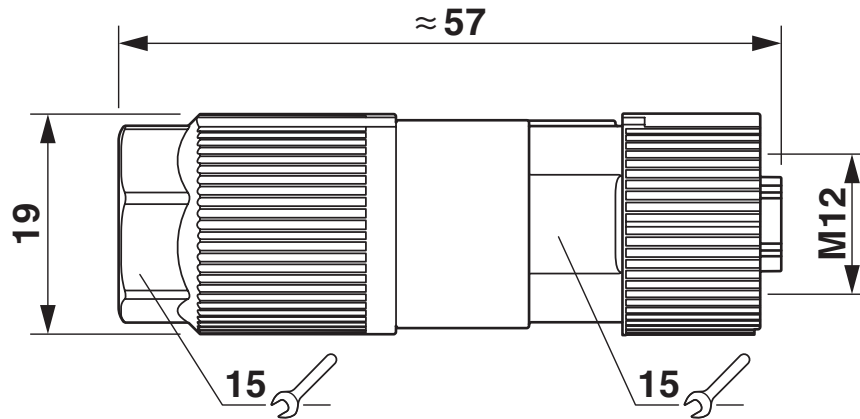
SACC-M12FSX-8QO SH PN - Data connector



1414587

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

Dimensional drawing



M12 x 1 socket, straight, shielded

SACC-M12FSX-8QO SH PN - Data connector



1414587

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

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1414587>



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



UL Listed
Approval ID: E335024-20120831



cUL Listed
Approval ID: E335024-20120831

cULus Listed

SACC-M12FSX-8QO SH PN - Data connector



1414587

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

Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 9.0	EC002635
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

SACC-M12FSX-8QO SH PN - Data connector



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

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%
EF3.0 Climate Change	
CO2e kg	9.544 kg CO2e

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk