

# SACC-M12MSX-8QO SH PN - Data connector



1411044

<https://www.phoenixcontact.com/us/products/1411044>

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Data connector, PROFINET CAT6<sub>A</sub> (10 Gbps), 8-position, halogen-free, shielded, Plug 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	1411044
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF31
Product key	AF2CDN
GTIN	4046356997898
Weight per piece (including packing)	43.2 g
Weight per piece (excluding packing)	43.2 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

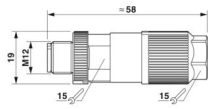
### Product properties

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

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Dimensions

Dimensional drawing	
Length	58 mm
Wrench size, union nut	15 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
Seal 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
Material for screw connection	Zinc die-cast, nickel-plated
Standards/regulations	PA 6.6
Wire insulation material	PVC / PE / PP / rubber

### Connection data

#### Conductor connection

Connection method	Insulation displacement connection
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Connection cross section	0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (flexible)
	0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (solid)
Connection cross section AWG	24 ... 20 (flexible)
	24 ... 20 (solid)
Tightening torque	M12 knurl
	5 Nm (Pressure nut)

## Connection 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 <sub>N</sub>	48 V AC
	60 V DC
Nominal current I <sub>N</sub>	0.5 A
Transmission speed	10 Gbps

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 100
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## Connector

### Connection 1

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

## Cable/line

Signal type/category	PROFINET CAT6 <sub>A</sub> (IEC 11801), 10 Gbps
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## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

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## 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)
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## M12

Standard designation	M12 connector
Standards/specifications	according to IEC 61076-2-109
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001

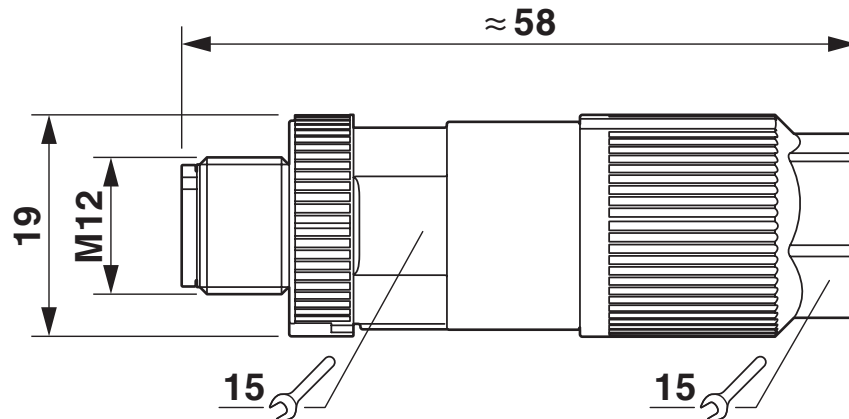
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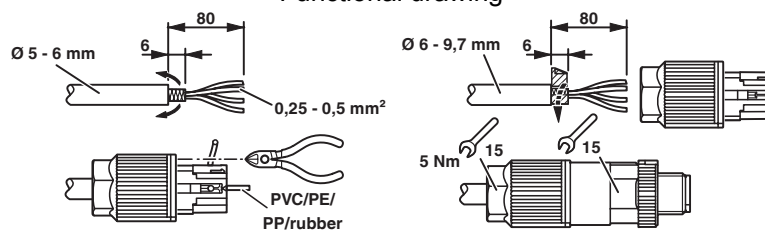
## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

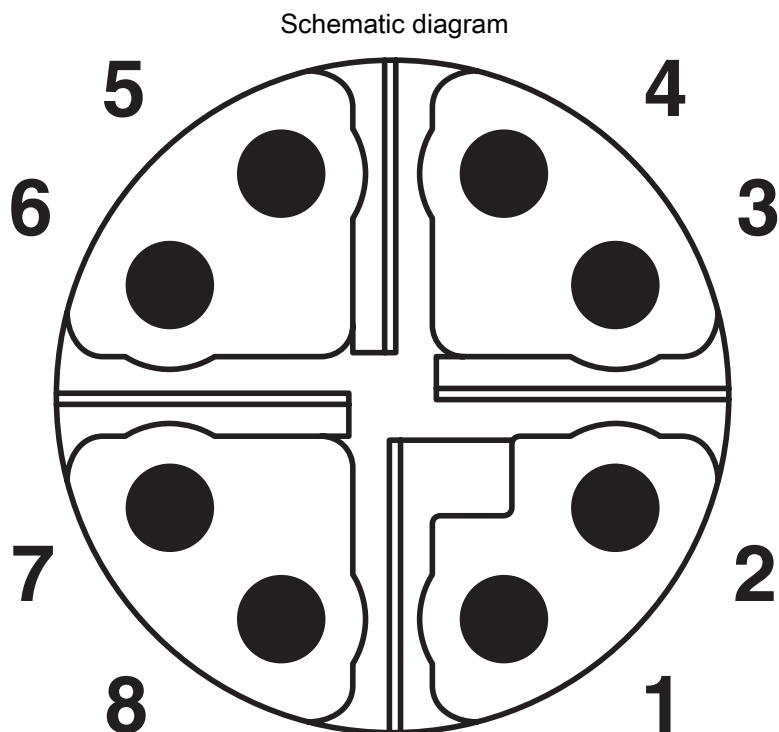
Functional drawing



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Pin assignment M12 plug, 8-pos., view plug side

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1411044>



**UL Listed**

Approval ID: E335024-20120831



**cUL Listed**

Approval ID: E335024-20120831

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## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 10.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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### EF3.1 Climate Change

CO2e kg	1.07 kg CO2e
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