SACC-M12FS-4QO SH PBPA - Data connector

1413934

https://www.phoenixcontact.com/us/products/1413934

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Data connector, PROFIBUS (31.25 kbps), 2-position, halogen-free, shielded, Socket straight M12, coding: A, 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	1413934
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF31
Product key	AF2CDC
GTIN	4055626013169
Weight per piece (including packing)	49.4 g
Weight per piece (excluding packing)	50.4 g
Customs tariff number	85366990
Country of origin	DE

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.

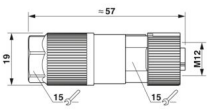
Product properties

Product type	Circular connector (cable-side)
Application	Data
Number of positions	2
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	straight

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
Material grommet GRP	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
Wire insulation material	PVC / PE / PP / rubber

Connection data

Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.25 mm² ... 0.75 mm² (flexible)
	0.14 mm² ... 0.5 mm² (solid)
Connection cross section AWG	24 ... 18 (flexible)
	26 ... 20 (solid)
Tightening torque	5 Nm (Pressure nut)

Connection assignment

Contact | Color (signal designation) | Contact (optional)	PROFIBUS PA: 1 = OG (DATA+)
	PROFIBUS PA: 3 = BU (DATA-)
	PROFIBUS PA: 4 = WH (shield)
	FOUNDATION Fieldbus: 1 = BU (DATA-)
	FOUNDATION Fieldbus: 2 = OG (DATA+)
	FOUNDATION Fieldbus: 3 (shield)

Electrical properties

Rated surge voltage	0.8 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	30 V DC
Nominal current I_N	4 A
Transmission speed	31.25 kbps

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

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

Interfaces

Signal type/category	PROFIBUS, 31.25 kbps

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

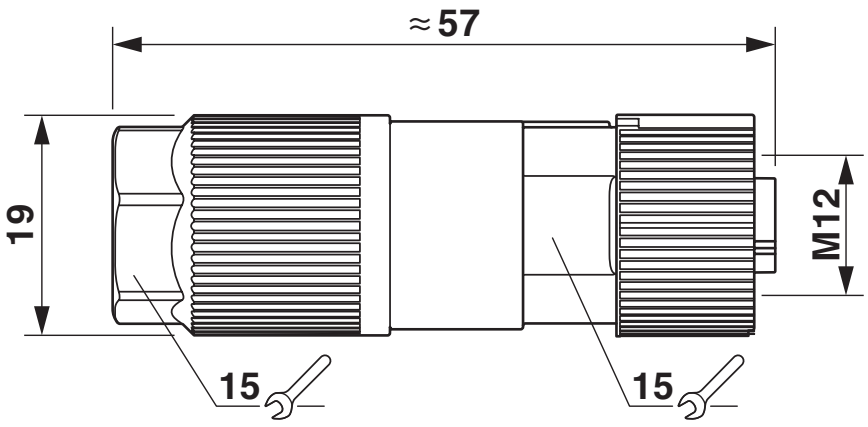
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

M12

Standard designation	M12 connector
Standards/specifications	according to IEC 61076-2-101

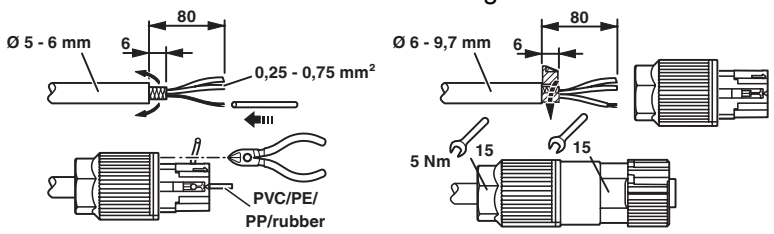
Drawings

Dimensional drawing

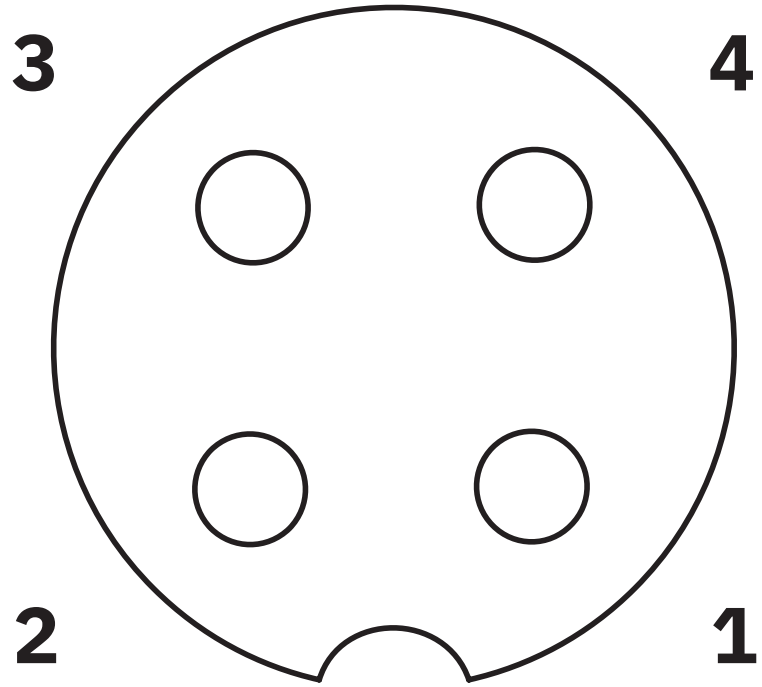


M12 x 1 socket, straight, shielded

Functional drawing



Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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%

EF3.1 Climate Change

CO2e kg	1.296 kg CO2e

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