

SACC-M12FS-4QO-0,75 SH - Connector



1413994

<https://www.phoenixcontact.com/us/products/1413994>

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.



Connector, Universal, 4-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	1413994
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF31
Product key	AF2CDA
GTIN	4055626013206
Weight per piece (including packing)	44.8 g
Weight per piece (excluding packing)	45 g
Customs tariff number	85366990
Country of origin	DE

SACC-M12FS-4QO-0,75 SH - Connector



1413994

<https://www.phoenixcontact.com/us/products/1413994>

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.

Mounting

Assembly note

If the conductor is to be reconnected, it must be cut off above the last contact point.

Product properties

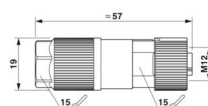
Product type	Circular connector (cable-side)
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	straight

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
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

SACC-M12FS-4QO-0,75 SH - Connector



1413994

<https://www.phoenixcontact.com/us/products/1413994>

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	0.14 mm ² ... 0.75 mm ² (flexible)
	0.14 mm ² ... 0.5 mm ² (solid)
Connection cross section AWG	26 ... 18 (flexible)
	26 ... 20 (solid)
Tightening torque	5 Nm (Pressure nut)

Connection assignment

Contact Color (signal designation) Contact (optional)	1 = BN
	2 = WH
	3 = BU
	4 = BK

Electrical properties

Rated surge voltage	2.5 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A

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	Universal
----------------------	-----------

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67

SACC-M12FS-4QO-0,75 SH - Connector



1413994

<https://www.phoenixcontact.com/us/products/1413994>

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
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001

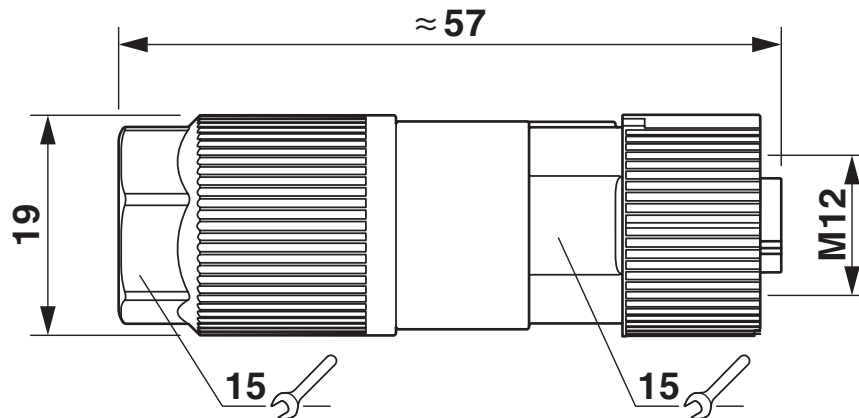
SACC-M12FS-4QO-0,75 SH - Connector

1413994

<https://www.phoenixcontact.com/us/products/1413994>

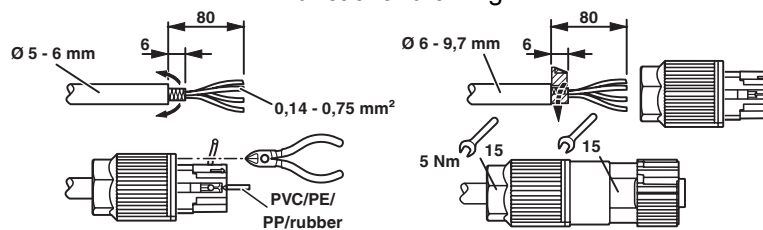
Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

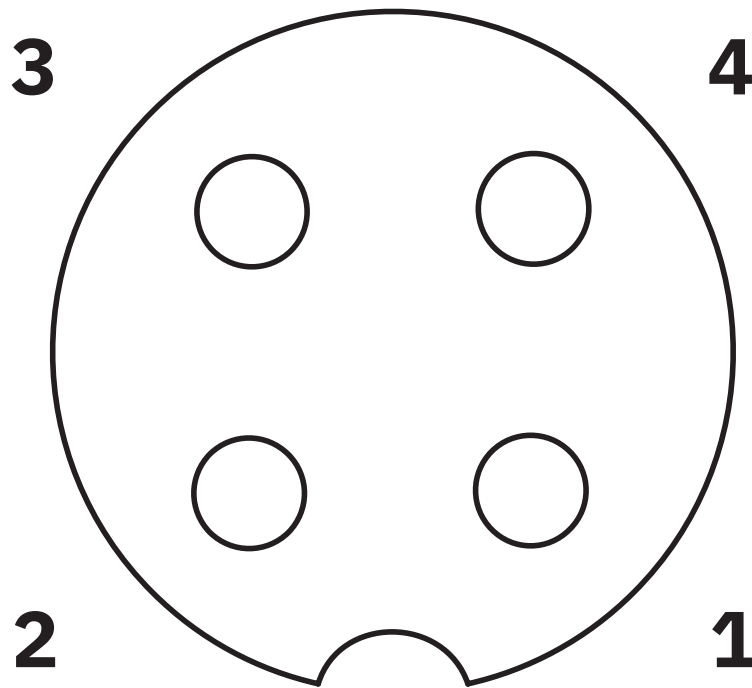
Functional drawing



1413994

<https://www.phoenixcontact.com/us/products/1413994>

Schematic diagram



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

SACC-M12FS-4QO-0,75 SH - Connector



1413994

<https://www.phoenixcontact.com/us/products/1413994>

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635
-----------	----------

UNSPSC

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

SACC-M12FS-4QO-0,75 SH - Connector



1413994

<https://www.phoenixcontact.com/us/products/1413994>

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	11.125 kg CO2e
---------	----------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com