

SACC-M12MS-4QO-0,75-M - Connector

1641785

<https://www.phoenixcontact.com/us/products/1641785>



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.



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

Commercial data

Item number	1641785
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF31
Product key	AF2CCA
GTIN	4017918921866
Weight per piece (including packing)	14.8 g
Weight per piece (excluding packing)	14.7 g
Customs tariff number	85366990
Country of origin	DE

SACC-M12MS-4QO-0,75-M - Connector



1641785

<https://www.phoenixcontact.com/us/products/1641785>

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

AWG 18 wire cross section upon request

Product properties

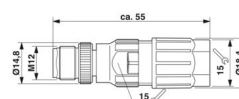
Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	straight

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing



Length	55 mm
Wrench size, union nut	15 mm
Wrench size, counter nut	15 mm

External dimensions

Outside diameter	4 mm ... 8 mm
------------------	---------------

Housing

Diameter housing	18.4 mm
------------------	---------

Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	PA 6
Contact material	CuSn

SACC-M12MS-4QO-0,75-M - Connector



1641785

<https://www.phoenixcontact.com/us/products/1641785>

Contact surface material	Ni/Au
Contact carrier material	TPU
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	0.34 mm ² ... 0.75 mm ²
Connection cross section AWG	22 ... 18
Tightening torque	0.4 Nm (M12 knurl) 1.5 Nm (Pressure nut)

Connection assignment

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

Electrical properties

Rated surge voltage	4 kV
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	250 V AC 250 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

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

Connector

Connection 1

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

Cable/line

Signal type/category	Universal
External cable diameter	4 mm ... 8 mm

Environmental and real-life conditions

SACC-M12MS-4QO-0,75-M - Connector



1641785

<https://www.phoenixcontact.com/us/products/1641785>

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 80 °C (Plug / socket)
Ambient temperature (assembly)	-5 °C ... 50 °C (During assembly)

Standards and regulations

M12

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

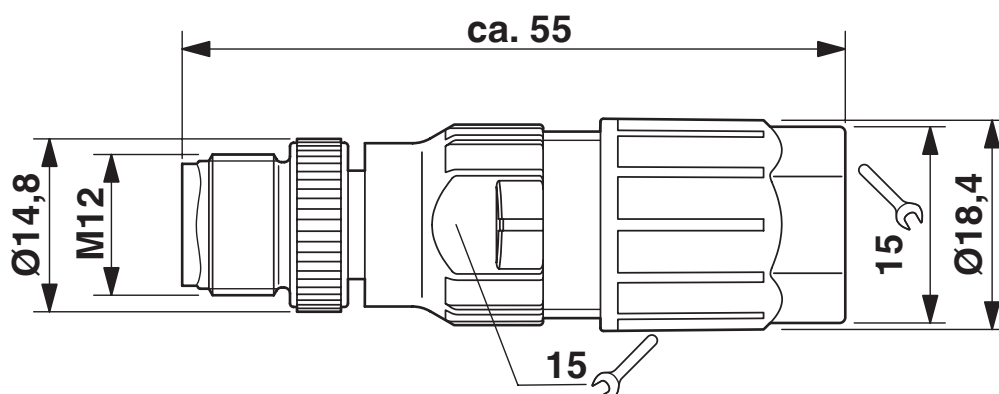
SACC-M12MS-4QO-0,75-M - Connector

1641785

<https://www.phoenixcontact.com/us/products/1641785>

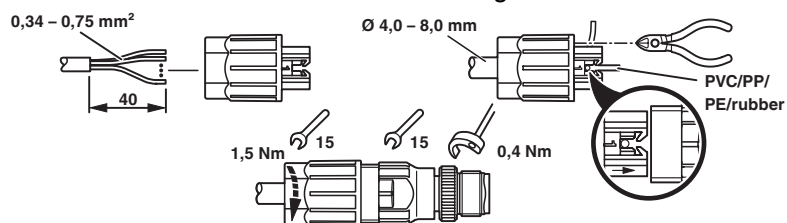
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Functional drawing



Schematic diagram



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

SACC-M12MS-4QO-0,75-M - Connector



1641785

<https://www.phoenixcontact.com/us/products/1641785>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1641785>

 cUL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	300 V	4 A	-	-

 UL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	300 V	4 A	-	-

SACC-M12MS-4QO-0,75-M - Connector



1641785

<https://www.phoenixcontact.com/us/products/1641785>

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

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

UNSPSC

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

SACC-M12MS-4QO-0,75-M - Connector



1641785

<https://www.phoenixcontact.com/us/products/1641785>

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	0.143 kg CO2e
---------	---------------

Phoenix Contact 2025 © - 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