

SACC-M12FS-4PL SH - Connector



1424668

<https://www.phoenixcontact.com/us/products/1424668>

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, shielded, Socket straight M12, coding: A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Your advantages

- Time-saving Push-Lock connection: Tool-free connection and disconnection of conductors by opening the contact levers
- Intuitive connection: Easy assignment of individual litz wires with color-coded and numerical identification of the contact levers
- Integrated Push-in Technology: Wire rigid and pretreated conductors easily by means of simple, direct insertion
- Shock- and vibration-resistant connection: Proven spring-cage technology guarantees secure and reliable contacting
- Safely shielded: Reliable 360° shield connection even under extreme mechanical strain

Commercial data

Item number	1424668
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF33
Product key	BF2CFA
Catalog page	Page 19 (C-2-2019)
GTIN	4055626375953
Weight per piece (including packing)	43.3 g
Weight per piece (excluding packing)	42 g
Customs tariff number	85366990
Country of origin	DE

SACC-M12FS-4PL SH - Connector

1424668

<https://www.phoenixcontact.com/us/products/1424668>



Technical data

Notes

General	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.
---------	--

Mounting

Assembly instructions	The wires can be connected both with ferrules and without ferrules
-----------------------	--

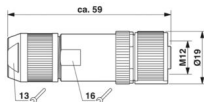
Product properties

Product type	Circular connector (cable-side)
Sensor type	Universal
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	59 mm

External dimensions

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

Housing

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

Material specifications

Material	TPE-U
	PA 6
Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn

SACC-M12FS-4PL SH - Connector



1424668

<https://www.phoenixcontact.com/us/products/1424668>

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: Fire protection in rail vehicles - requirement sets R22, R23, R24, R25, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) PA 6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Connection data

Conductor connection

Connection method	Push-lock spring connection
Connection cross section	0.14 mm ² ... 0.75 mm ² (without ferrule)
	0.08 mm ² ... 0.5 mm ² (with ferrule)
	0.14 mm ² ... 0.75 mm ² (solid)
Connection cross section AWG	26 ... 18 (without ferrule)
	28 ... 20 (with ferrule)
Stripping length of the individual wire	7 mm
Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)

Pin assignment

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

Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 8 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A (2 A when using 0.14 mm ² conductors)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100 (Quantity: 500 with Phoenix Contact mating connector)
-----------------------------	---

Connector

Connection 1

Head design	Socket
Head cable outlet	straight

SACC-M12FS-4PL SH - Connector



1424668

<https://www.phoenixcontact.com/us/products/1424668>

Head thread type	M12
Coding	A

Cable/line

Signal type/category	Universal
Stripping length of the individual wire	7 mm

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Testing

Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, R25, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
	PA 6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001

SACC-M12FS-4PL SH - Connector

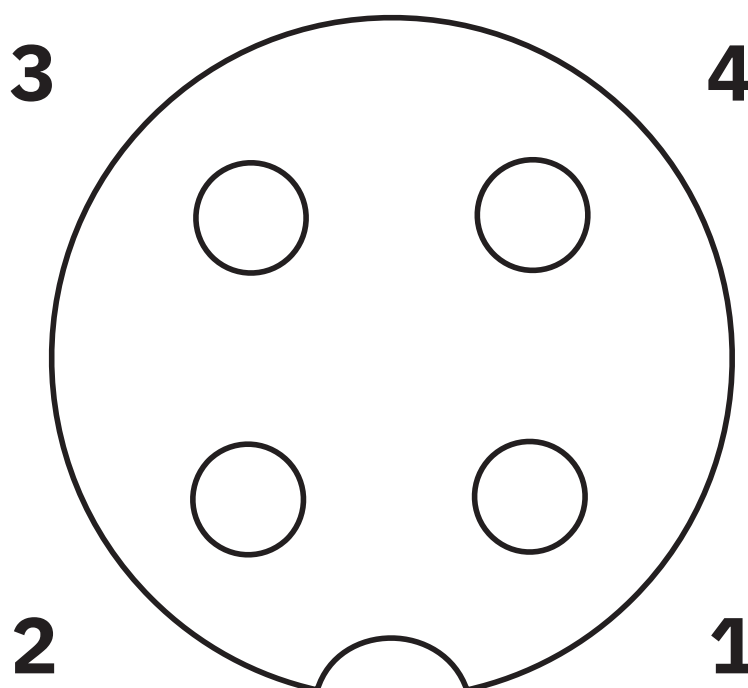
1424668

<https://www.phoenixcontact.com/us/products/1424668>



Drawings

Schematic diagram



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

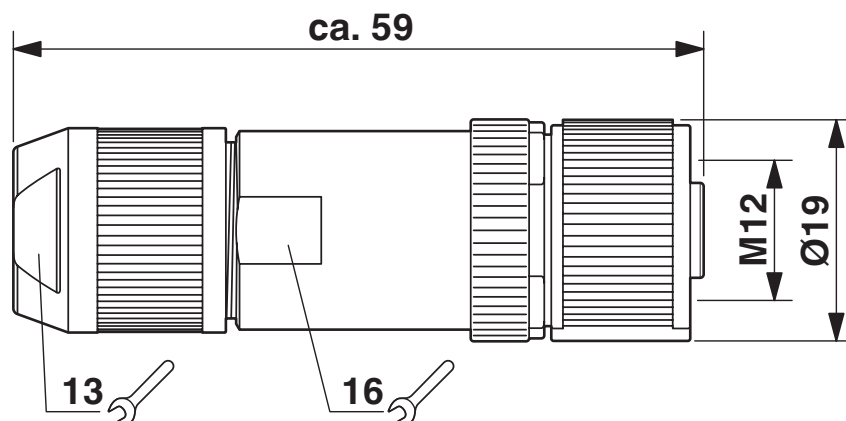
SACC-M12FS-4PL SH - Connector

1424668

<https://www.phoenixcontact.com/us/products/1424668>

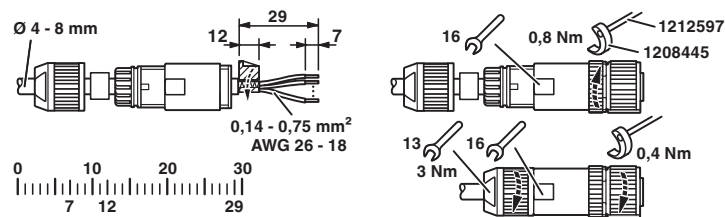


Dimensional drawing



Socket M12-SPEEDCON, straight, shielded

Functional drawing



Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single wires, in the case of a straight sleeve housing gently twist the wires together, stick the shielding foil around the shortened shield, in the case of a cable outside diameter < 6 mm stick an additional shielding foil around the wire pack, screw the sleeve housing to the plug insert, screw the pressure nut tight.

SACC-M12FS-4PL SH - Connector




1424668


<https://www.phoenixcontact.com/us/products/1424668>


Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424668>



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

	UL Listed Approval ID: E221474			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	4 A	-	26 - 18

	cUL Listed Approval ID: E221474			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	4 A	26 - 18	-

cULus Listed

SACC-M12FS-4PL SH - Connector



1424668

<https://www.phoenixcontact.com/us/products/1424668>

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-M12FS-4PL SH - Connector



1424668

<https://www.phoenixcontact.com/us/products/1424668>

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Phoenix Contact 2024 © - 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