

SACC-P12FR-5CT-CM SH - Connector



1021818

<https://www.phoenixcontact.com/us/products/1021818>

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, 5-position, shielded, Socket angled M12 Push-Pull, coding: A, Crimp connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

Your advantages

- Plug and Produce: convenient and secure connection, thanks to the manufacturer-independent locking system
- Extremely compact, thanks to the small wiring space and high contact density
- Clear feedback: the connector springs back when not snapped into place correctly
- Safely shielded: reliable shield connection even under extreme mechanical strain
- Robust connection: suitable for railway applications with high shock and vibration loads

Commercial data

Item number	1021818
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF34
Product key	AF2CJA
GTIN	4055626514673
Weight per piece (including packing)	42.65 g
Weight per piece (excluding packing)	42.65 g
Customs tariff number	85366990
Country of origin	DE

SACC-P12FR-5CT-CM SH - Connector



1021818
<https://www.phoenixcontact.com/us/products/1021818>

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	Contacts can be clipped in place and unclipped without tools
	The pin assignment can be rotated in a 30° pitch to the cable outlet

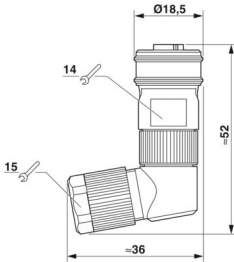
Product properties

Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	angled

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Wrench size, union nut	15 mm
Wrench size, counter nut	14 mm

External dimensions

Outside diameter	4.5 mm ... 7.5 mm
------------------	-------------------

Housing

Diameter housing	22 mm
------------------	-------

Material specifications

Flammability rating according to UL 94	V0
--	----

SACC-P12FR-5CT-CM SH - Connector



1021818

<https://www.phoenixcontact.com/us/products/1021818>

Seal material	NBR
Material of grip body	Zinc die-cast, nickel-plated
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Standards/regulations	PA 6.6

Connection data

Conductor connection

Connection method	Crimp connection
Connection cross section	0.14 mm² ... 1 mm² (flexible)
Connection cross section AWG	26 ... 18 (flexible)
Stripping length of the individual wire	4 mm +0,5 mm
Tightening torque	1.5 Nm (Screw plug insert with sleeve housing as far it will go)
	4 Nm (Pressure nut with coupling sleeve)

Electrical properties

Rated surge voltage	1.5 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	60 V DC
	48 V AC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

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

Connector

Connection 1

Head design	Socket
Head cable outlet	angled
Head thread type	M12
Head locking type	Push-Pull
Coding	A

Cable/line

Signal type/category	Universal
Stripping length of the individual wire	4 mm +0,5 mm

Environmental and real-life conditions

Ambient conditions

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

SACC-P12FR-5CT-CM SH - Connector



1021818

<https://www.phoenixcontact.com/us/products/1021818>

Standards and regulations

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)
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Note	according to
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001

SACC-P12FR-5CT-CM SH - Connector

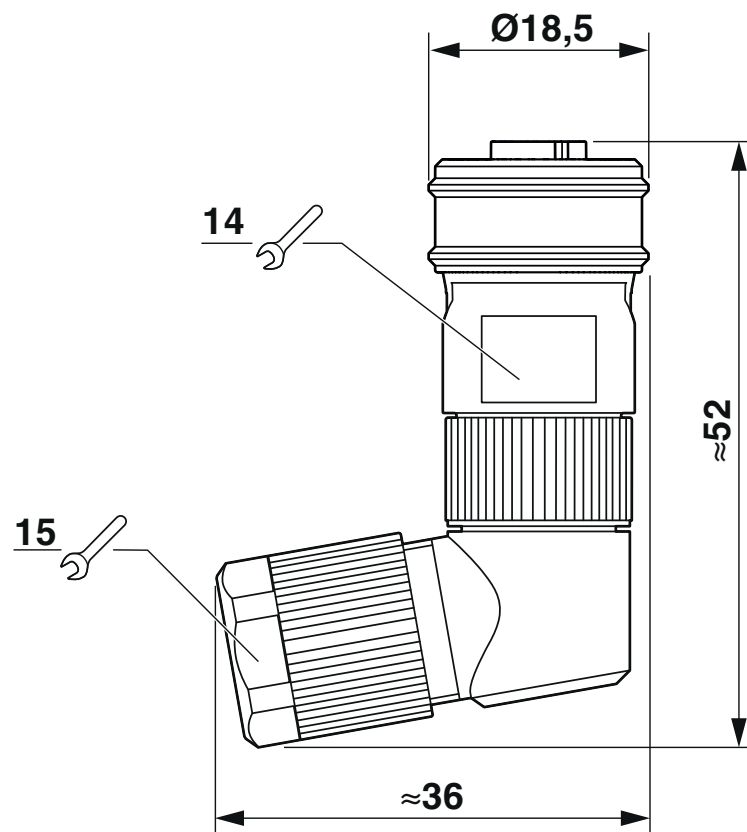
1021818

<https://www.phoenixcontact.com/us/products/1021818>



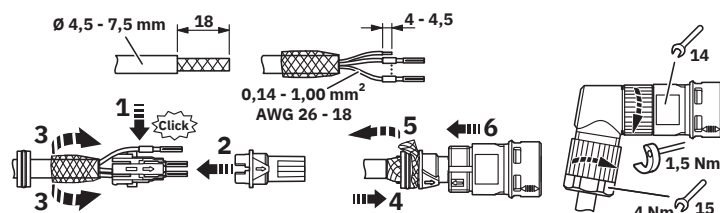
Drawings

Dimensional drawing



Dimensional drawing

Functional drawing



Functional drawing

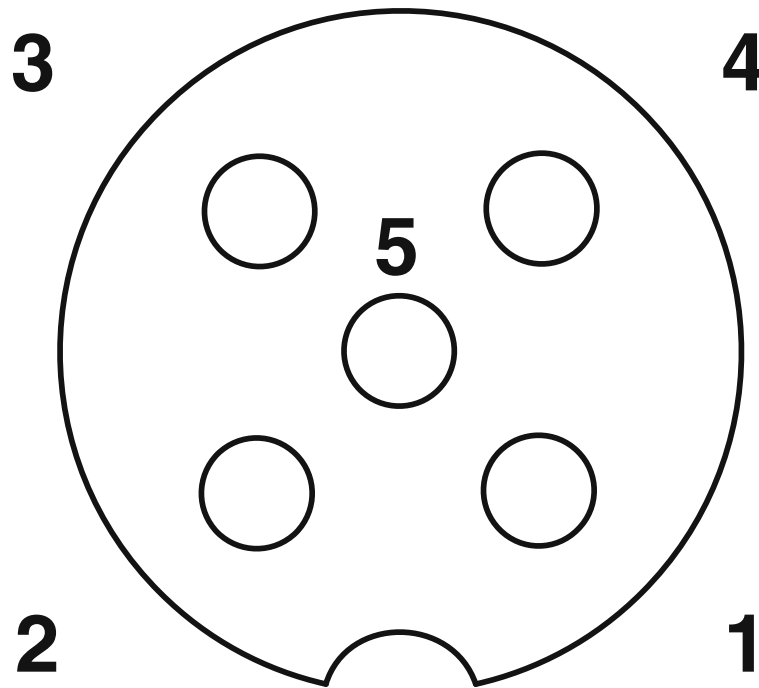
SACC-P12FR-5CT-CM SH - Connector

1021818

<https://www.phoenixcontact.com/us/products/1021818>



Schematic diagram



M12 PUSH-PULL male pin assignment, 5-pos., socket-side view

SACC-P12FR-5CT-CM SH - Connector



1021818

<https://www.phoenixcontact.com/us/products/1021818>

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

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

UNSPSC

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

SACC-P12FR-5CT-CM SH - Connector



1021818

<https://www.phoenixcontact.com/us/products/1021818>

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	3.089 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