

# SACC-M12MR-5CT-CM SH - Connector



1422851

<https://www.phoenixcontact.com/gb/products/1422851>

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, Plug angled M12, coding: A, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

## Your advantages

- Extremely compact, thanks to the small wiring space and high contact density
- Safe use in the field, thanks to a high degree of protection
- 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	1422851
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF2CJA
Product key	BF2CJA
Catalog page	Page 27 (C-2-2019)
GTIN	4055626357782
Weight per piece (including packing)	34.78 g
Weight per piece (excluding packing)	34 g
Customs tariff number	85366990
Country of origin	DE

# SACC-M12MR-5CT-CM SH - Connector



1422851

<https://www.phoenixcontact.com/gb/products/1422851>

## Technical data

### Notes

Assembly note	<b>NOTE:</b> 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

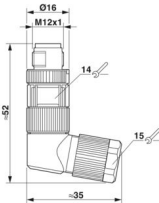
### Data management status

Article revision	04
------------------	----

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Length	52 mm
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	16 mm
------------------	-------

# SACC-M12MR-5CT-CM SH - Connector



1422851

<https://www.phoenixcontact.com/gb/products/1422851>

## Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM
Material of grip body	Zinc die-cast, nickel-plated
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, tin-plated
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)

## Connection data

### Conductor connection

Connection method	Crimp connection
Connection cross section	0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (flexible)
Connection cross section AWG	26 ... 18 (flexible)
Stripping length of the individual wire	4 mm +0,5 mm
Tightening torque	0.4 Nm (M12 knurl)
	1.5 Nm (Screw plug insert with sleeve housing as far it will go)
	4 Nm (Pressure nut with coupling sleeve)

### Pin assignment

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

## Electrical properties

Rated surge voltage	1.5 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC
	60 V DC
Nominal current I <sub>N</sub>	4 A

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

Head design	Plug
Head cable outlet	angled
Head thread type	M12

# SACC-M12MR-5CT-CM SH - Connector



1422851

<https://www.phoenixcontact.com/gb/products/1422851>

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
	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, and R26 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

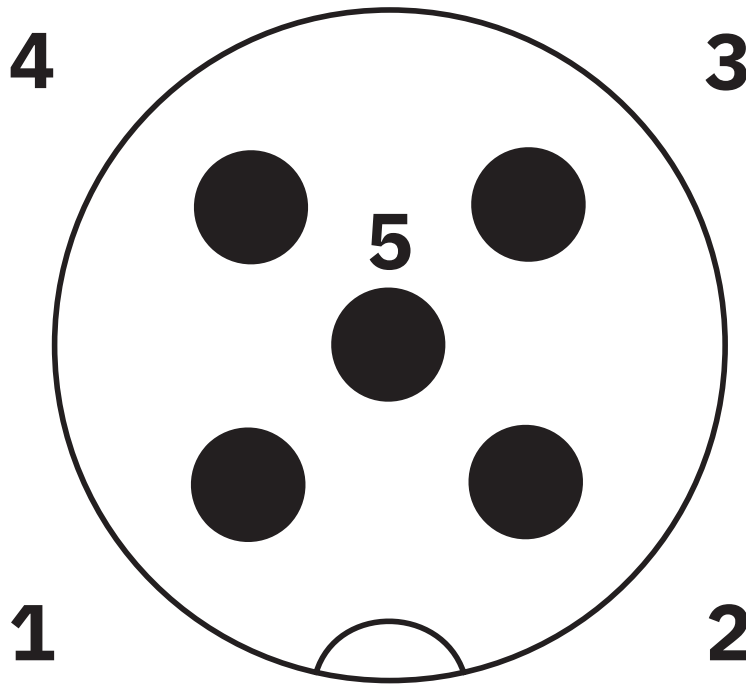
# SACC-M12MR-5CT-CM SH - Connector

1422851

<https://www.phoenixcontact.com/gb/products/1422851>

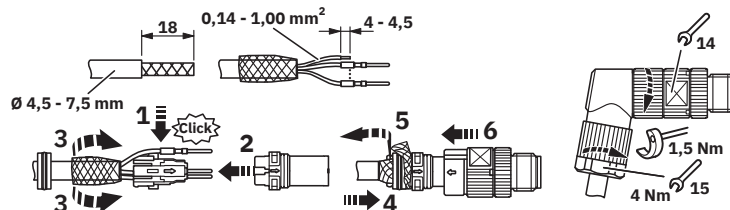
## Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

Functional drawing



Functional drawing

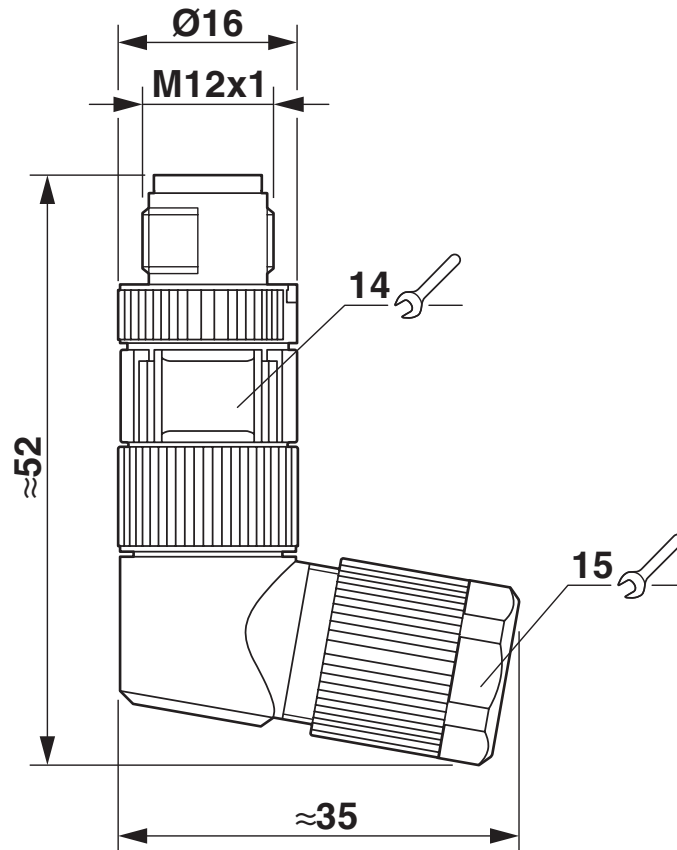
# SACC-M12MR-5CT-CM SH - Connector

1422851

<https://www.phoenixcontact.com/gb/products/1422851>



Dimensional drawing



M12 x 1 male plug, angled, shielded

# SACC-M12MR-5CT-CM SH - Connector



1422851

<https://www.phoenixcontact.com/gb/products/1422851>

## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1422851>



**EAC**

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

# SACC-M12MR-5CT-CM SH - Connector



1422851

<https://www.phoenixcontact.com/gb/products/1422851>

## 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-M12MR-5CT-CM SH - Connector



1422851  
<https://www.phoenixcontact.com/gb/products/1422851>

## 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	2.386 kg CO2e

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd  
Halesfield 13, Telford  
Shropshire, TF7 4PG  
01952 681700  
[info@phoenixcontact.co.uk](mailto:info@phoenixcontact.co.uk)