

SACC-M12FR-5CON-PG9-M - Connector



1681499

<https://www.phoenixcontact.com/us/products/1681499>

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, Socket angled M12, coding: A, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

Your advantages

- Safe use in the field, thanks to a high degree of protection
- Screw connection: proven connection technology for a large selection of different conductors

Commercial data

Item number	1681499
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	AF2CAA
GTIN	4017918157418
Weight per piece (including packing)	27.95 g
Weight per piece (excluding packing)	27.76 g
Customs tariff number	85366990
Country of origin	DE

SACC-M12FR-5CON-PG9-M - Connector



1681499

<https://www.phoenixcontact.com/us/products/1681499>

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

The connector pin assignment can be rotated 90° to the cable outlet

Product properties

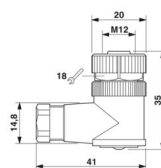
Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	angled
Pg screw connection	Pg9

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing



Length

35 mm

External dimensions

Outside diameter

6 mm ... 8 mm

Housing

Diameter housing

20 mm

Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	PA
Contact material	CuZn

SACC-M12FR-5CON-PG9-M - Connector



1681499

<https://www.phoenixcontact.com/us/products/1681499>

Contact surface material	CuSnZn
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Conductor connection

Connection method	Screw connection
Connection cross section	0.25 mm ² ... 0.75 mm ² (without ferrule)
	0.14 mm ² ... 0.75 mm ² (with ferrule)
	0.25 mm ² ... 0.75 mm ² (solid)
Connection cross section AWG	24 ... 18 (without ferrule)
	26 ... 20 (with ferrule)
Stripping length of the individual wire	5 mm
Tightening torque	0.4 Nm (M12 knurl)
	0.2 Nm (Screw terminal blocks)
	0.8 Nm ... 1 Nm (Pressure screw with sleeve housing)

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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 50
-----------------------------	------

Connector

Connection 1

Head design	Socket
Head cable outlet	angled
Head thread type	M12
Coding	A

Cable/line

Signal type/category	Universal
Stripping length of the individual wire	5 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
----------------------	------

SACC-M12FR-5CON-PG9-M - Connector



1681499

<https://www.phoenixcontact.com/us/products/1681499>

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

Standards and regulations

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

SACC-M12FR-5CON-PG9-M - Connector

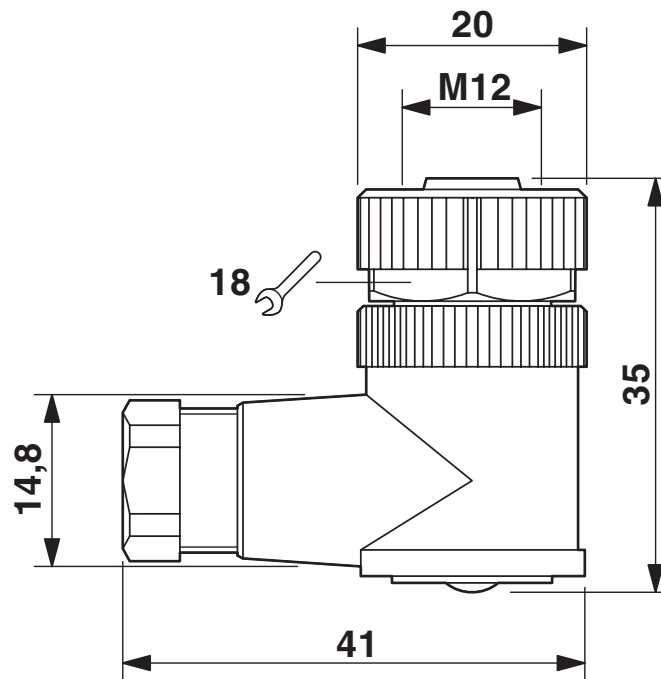
1681499

<https://www.phoenixcontact.com/us/products/1681499>



Drawings

Dimensional drawing

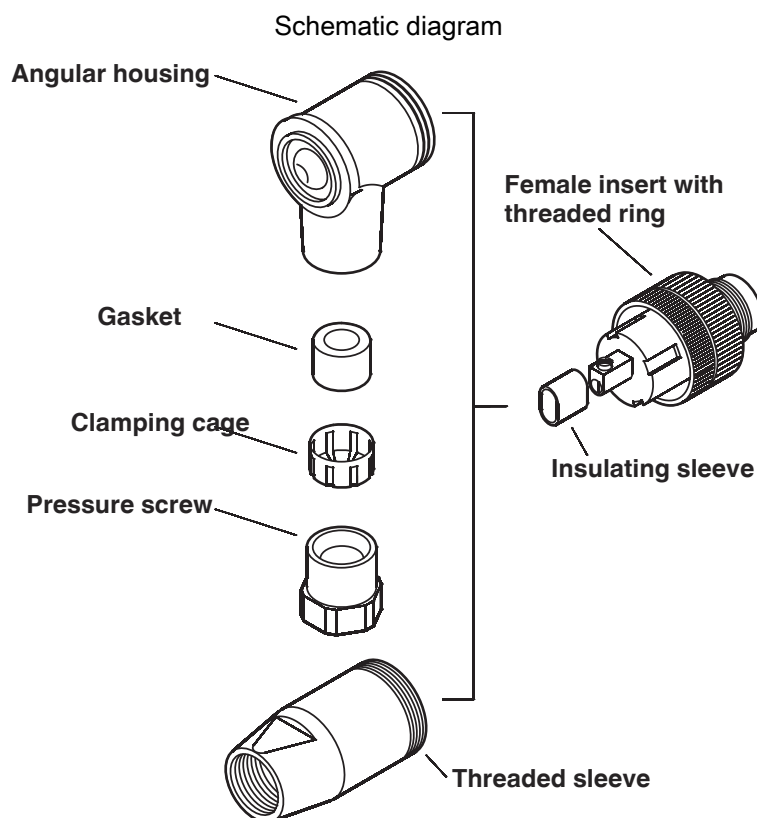


M12 x 1 socket, angled

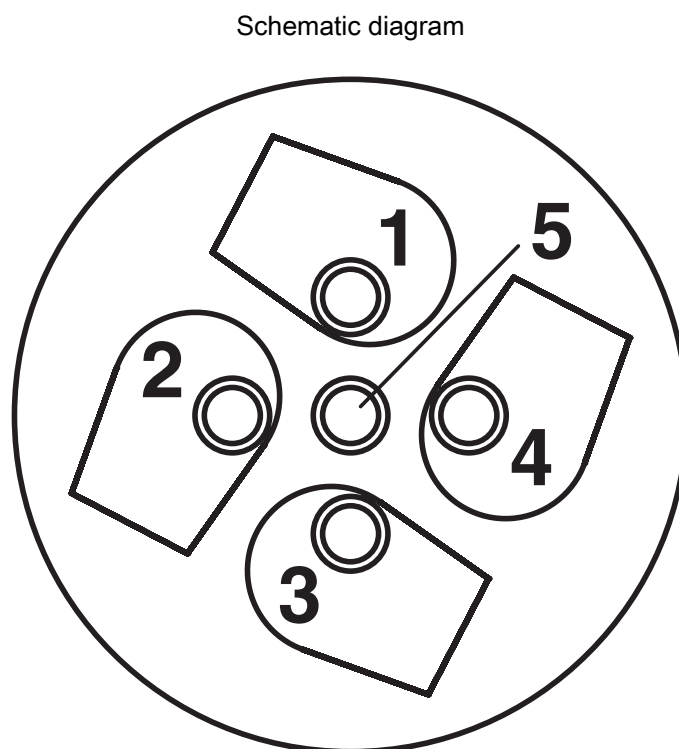
SACC-M12FR-5CON-PG9-M - Connector

1681499

<https://www.phoenixcontact.com/us/products/1681499>



Male/Female M12



Cable connection side M12 (screw connection)

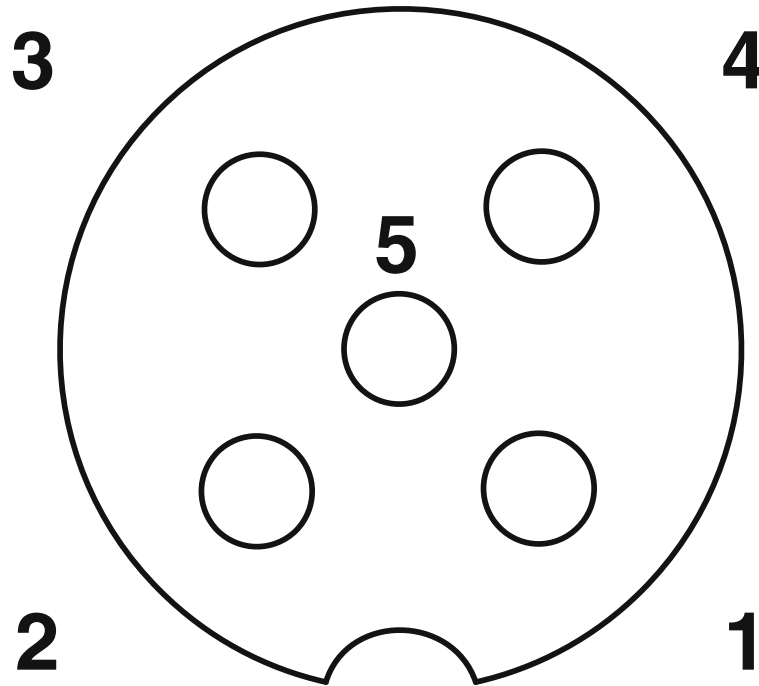
SACC-M12FR-5CON-PG9-M - Connector

1681499

<https://www.phoenixcontact.com/us/products/1681499>



Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

SACC-M12FR-5CON-PG9-M - Connector





1681499

<https://www.phoenixcontact.com/us/products/1681499>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1681499>

 cUL Recognized Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	60 V	4 A	-	-

 UL Recognized Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	60 V	4 A	-	-

SACC-M12FR-5CON-PG9-M - Connector



1681499

<https://www.phoenixcontact.com/us/products/1681499>

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

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

UNSPSC

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

SACC-M12FR-5CON-PG9-M - Connector



1681499
<https://www.phoenixcontact.com/us/products/1681499>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	9d28a4a2-33a3-4cd0-adc1-d163d9fc17d0

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