SACC-M12FR-5PL DN - Data connector

1072547

https://www.phoenixcontact.com/us/products/1072547

PHŒNIX CONTACT

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.

Data connector, CANopen®, DeviceNet™, 5-position, unshielded, Socket angled M12, A, Push-lock spring connection, knurl material: Plastic, 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
- Flexible cable outlets with angled connectors

Commercial data

Item number	1072547
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF33
Product key	BF2CEA
GTIN	4063151356460
Weight per piece (including packing)	15.5 g
Weight per piece (excluding packing)	15.5 g
Customs tariff number	85366990
Country of origin	DE

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

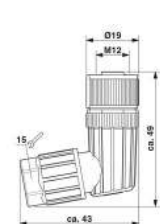|	
Assembly instructions	The connector pin assignment can be rotated 45° to the cable outlet
	The wires can be connected both with ferrules and without ferrules
Connection method	Push-lock spring connection

Product properties

Product type	Circular connector (cable-side)
Sensor type	CANopen®
Number of positions	5
Application	Data
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	angled

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	49 mm

External dimensions

Outside diameter	4 mm ... 8 mm

Housing

Diameter housing	19 mm

Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	PA 6.6
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Plastic

Connection data

Conductor connection

Connection method	Push-lock spring connection
Connection cross section	0.14 mm² ... 0.75 mm² (without ferrule)
	0.08 mm² ... 0.5 mm² (with ferrule)
	0.14 mm² ... 0.75 mm² (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)
	0.4 Nm (Connector with coupling sleeve)
	1.5 Nm (Pressure nut with coupling sleeve)

Pin assignment

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

Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 5 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 mm² conductors)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Head design	Socket

Head cable outlet	angled
Head thread type	M12
Coding	A

Cable/line

Signal type/category	CANopen®
	DeviceNet™
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

M12

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

PHŒNIX CONTACT

Drawings

Functional drawing

0,14 - 0,75 mm²
AWG 26 - 18

7

31

0   10   20   30

7   31

Ø 4 - 8 mm

1208429

0,4 Nm

1208445

15

1,5 Nm

0,4 Nm
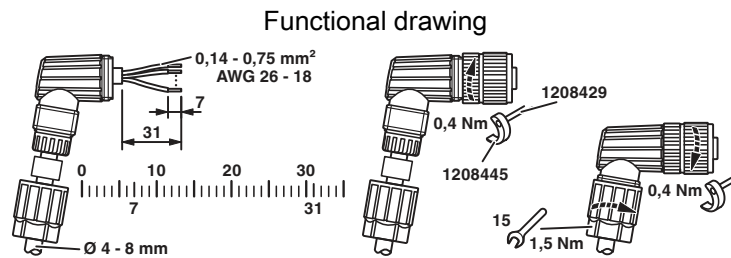
Schematic diagram

3   **4**

5

2   **1**
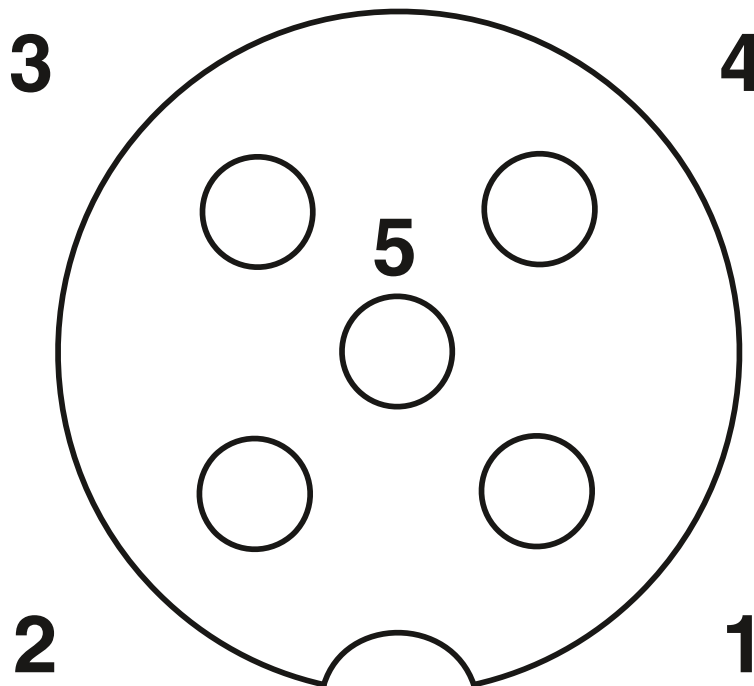
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Dimensional drawing
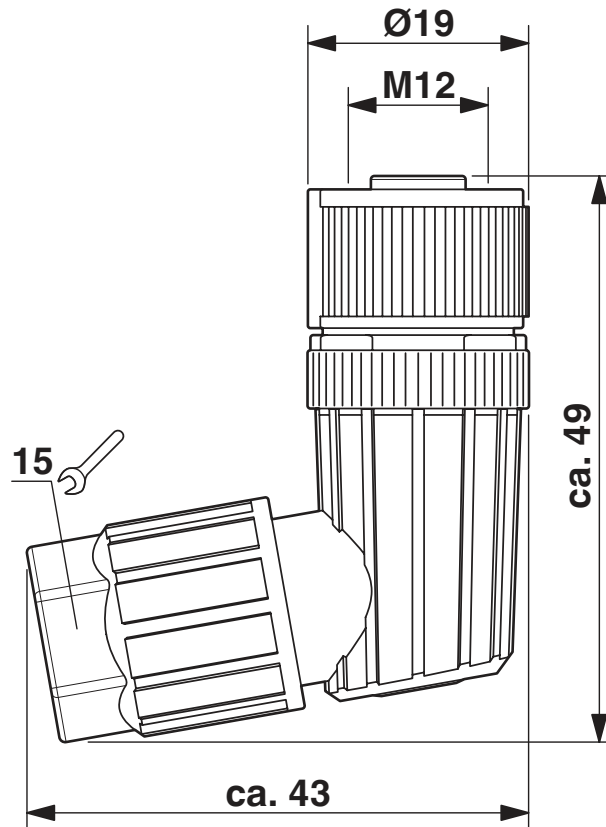
M12 x 1 socket, angled

SACC-M12FR-5PL DN - Data connector

1072547

https://www.phoenixcontact.com/us/products/1072547

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1072547

UL Listed
Approval ID: E221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 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
	250 V	4 A	26 - 18	-

cULus Listed

SACC-M12FR-5PL DN - Data connector

1072547

https://www.phoenixcontact.com/us/products/1072547

Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 8.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

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

SACC-M12FR-5PL DN - Data connector

1072547

https://www.phoenixcontact.com/us/products/1072547

Accessories

PROT-M12 MS-PA-CHAIN - Screw plug

1430899

https://www.phoenixcontact.com/us/products/1430899

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets

SAC-5P-920/... - Bus system cable

1511504

https://www.phoenixcontact.com/us/products/1511504

Bus system cable, CANopen®, DeviceNet™, 4-position halogen-free, shielded, cable length: Free entry (0.5 ... 400 m)

SACC-M12FR-5PL DN - Data connector

1072547

https://www.phoenixcontact.com/us/products/1072547

AI 0,25- 6 YE - Ferrule

3203024

https://www.phoenixcontact.com/us/products/3203024

Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: yellow

A 0,25- 7 - Ferrule

3202478

https://www.phoenixcontact.com/us/products/3202478

Ferrule, length: 7 mm, color: silver

SACC-M12FR-5PL DN - Data connector

A 0,34- 7 - Ferrule

3009202

https://www.phoenixcontact.com/us/products/3009202

Ferrule, length: 7 mm, color: silver

A 0,5 - 6 - Ferrule

3200218

https://www.phoenixcontact.com/us/products/3200218

Ferrule, length: 6 mm, color: silver

SACC-M12FR-5PL DN - Data connector

1072547

https://www.phoenixcontact.com/us/products/1072547

AI 0,5 - 6 WH - Ferrule

3200687

https://www.phoenixcontact.com/us/products/3200687

Ferrule, sleeve length: 6 mm, length: 12 mm, color: white

TSD 04 SAC - Torque screwdriver

1208429

https://www.phoenixcontact.com/us/products/1208429

Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

SACC-M12FR-5PL DN - Data connector

1072547

https://www.phoenixcontact.com/us/products/1072547

SACC BIT M12-D20 - Tool

1208445

https://www.phoenixcontact.com/us/products/1208445

Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/us/products/1212224

Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

SACC-M12FR-5PL DN - Data connector

1072547

https://www.phoenixcontact.com/us/products/1072547

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/us/products/1212600

Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

WIREFOX 2,5 - Stripping tool

1212368

https://www.phoenixcontact.com/us/products/1212368

Stripping tool, for conductors and cables with a conductor cross section from 0.08 to 2.5 mm, self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm^2 stranded/1.5 mm^2 solid

SACC-M12FR-5PL DN - Data connector

1072547

https://www.phoenixcontact.com/us/products/1072547

WIREFOX SAC - Stripping tool

1212623

https://www.phoenixcontact.com/us/products/1212623

Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

CRIMPFOX 6H - Crimping pliers

1212046

https://www.phoenixcontact.com/us/products/1212046

Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm^2 ... 6 mm^2, unlockable pressure lock, lateral entry