

## Bus system connector - SACC-M12FR-5PL SH DN - 1424673

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Bus system connector, CANopen<sup>®</sup>, DeviceNet<sup>™</sup>, 5-position, shielded, Socket angled M12, A-coded, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm




### Your advantages

- ✓ Easy and tool-free connection by means of Push-in Technology
- ✓ Conveniently connect stranded conductors, thanks to lever
- ✓ Reliable and quick connection of electric cables
- ✓ Flexible signal and data cabling
- ✓ Flexible cable outlets with angled connectors
- ✓ Easy and tool-free connection by means of Push-in Technology
- ✓ Quick and easy installation, thanks to Push-in connection technology



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 376004
GTIN	4055626376004

### Technical data

#### Dimensions

Diameter housing	19 mm
Length	48 mm
External cable diameter	4 mm ... 8 mm
Stripping length of the sheath	31 mm
Stripping length of the individual wire	7 mm

#### Ambient conditions

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

#### General

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## Technical data

### General

Note	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.
Rated current at 40°C	4 A (2 A when using 0.14 mm <sup>2</sup> conductors)
Rated voltage	48 V AC
	60 V DC
Number of positions	5
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
	Shock, vibration EN 50155:2001
Signal type/category	CANopen <sup>®</sup>
	DeviceNet <sup>™</sup>
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Push-in connection
Conductor cross section	0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (without ferrule)
	0.08 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (with ferrule)
	0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (solid)
Conductor cross section AWG	26 ... 18 (without ferrule)
	28 ... 20 (with ferrule)
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)
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

### Material

Flammability rating according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR
Additional material specifications	TPE-U (Clamping cage, weight: 1.1 g)
	PA 6 (Actuation lever)
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)

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#### Material

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

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Standard designation	Shock, vibration
Standards/regulations	EN 50155:2001
Flammability rating according to UL 94	V0

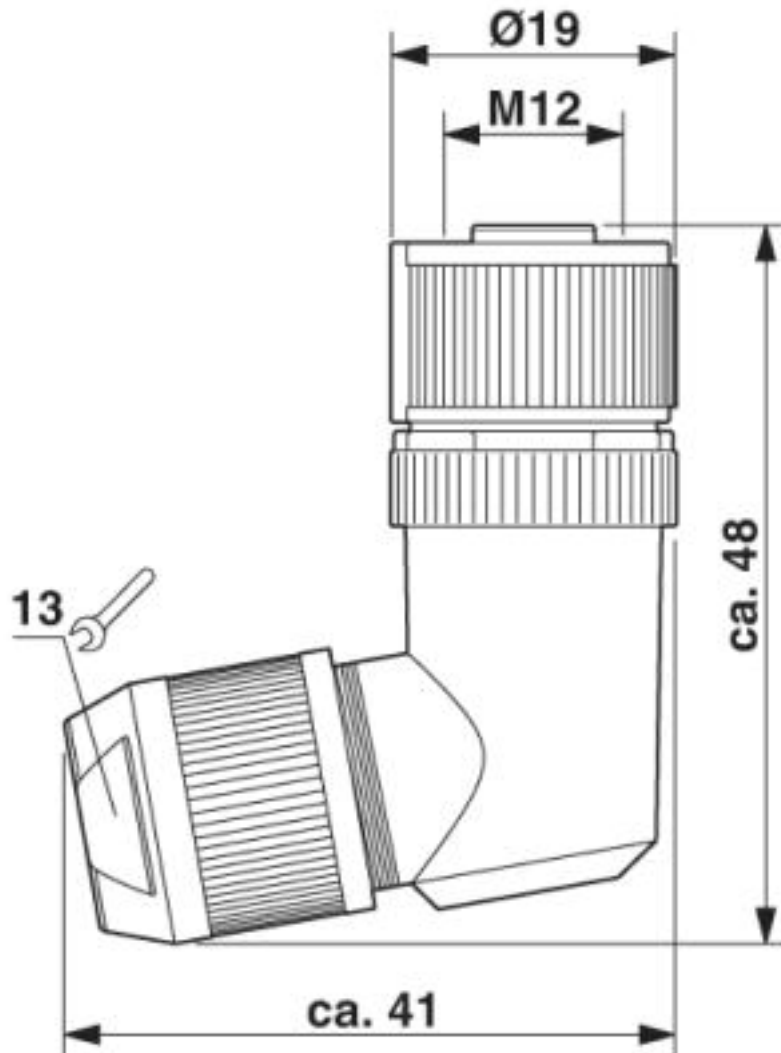
#### Environmental Product Compliance

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

### Drawings

## Bus system connector - SACC-M12FR-5PL SH DN - 1424673

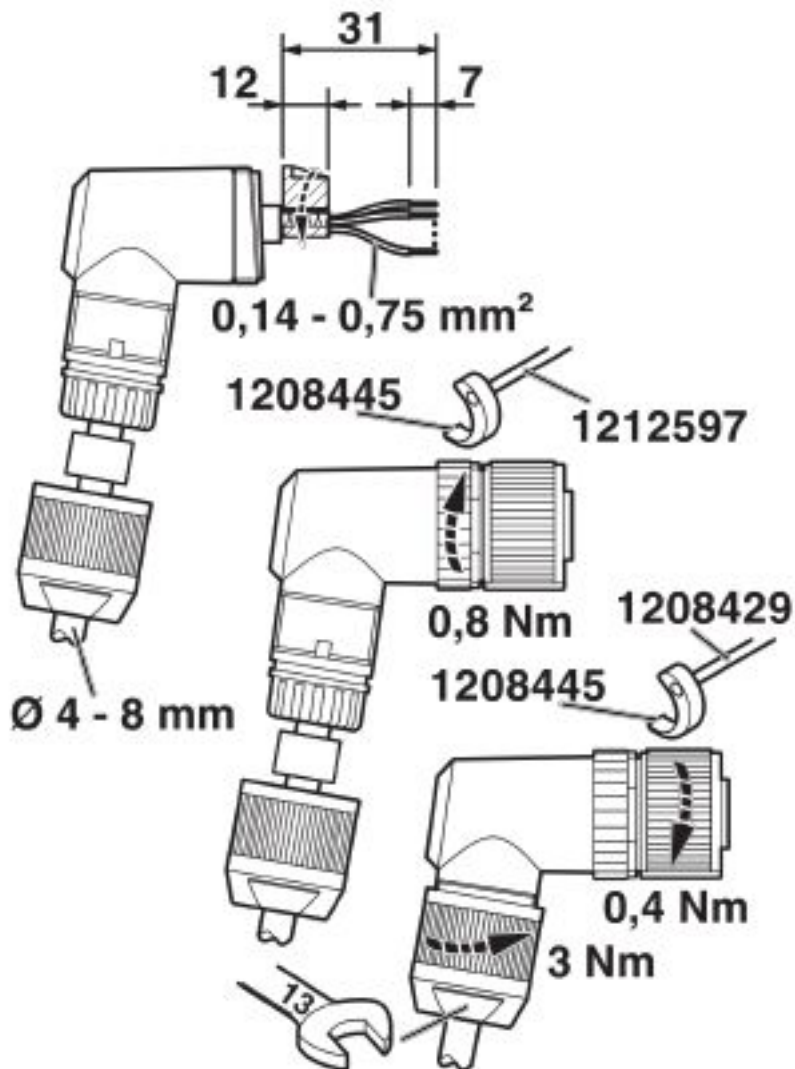
Dimensional drawing



Socket M12-SPEEDCON, angled, shielded

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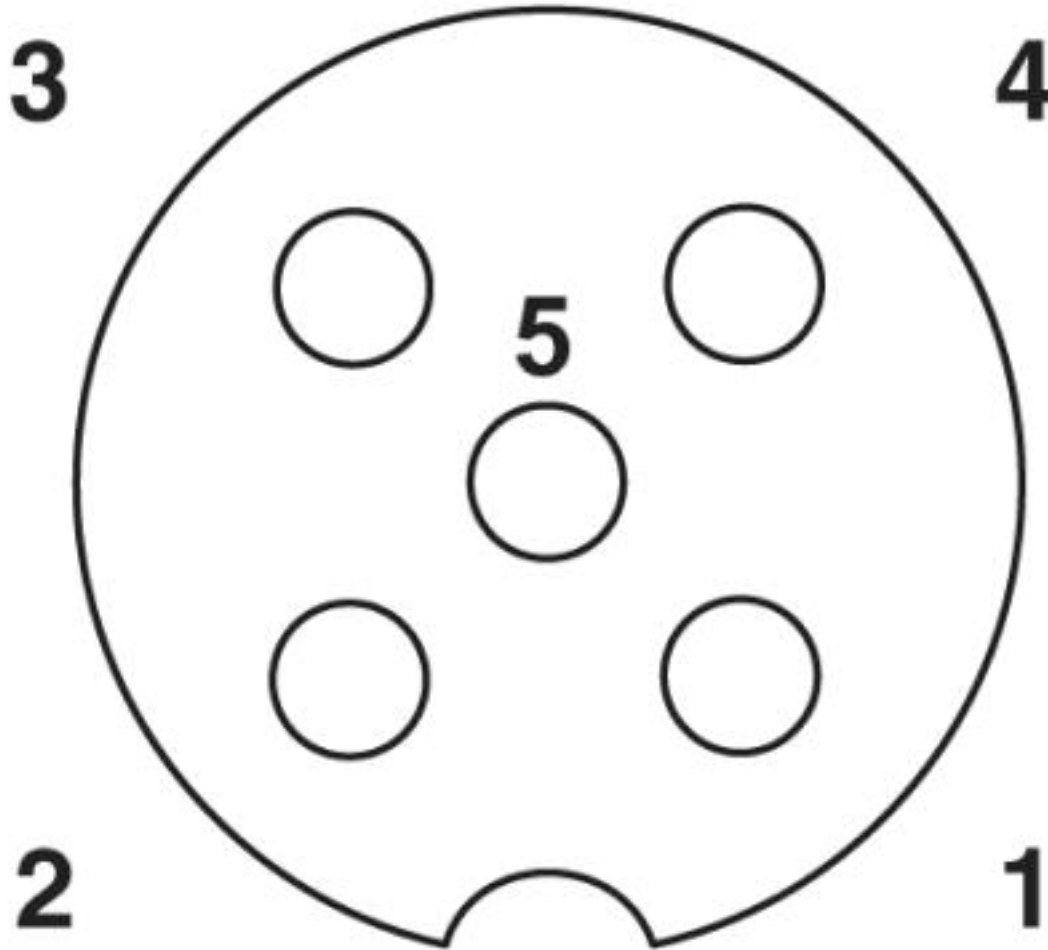
Functional drawing



Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single wires, connect the 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.

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Schematic diagram



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

## Approvals

Approvals

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Approvals

EAC / UL Listed / cUL Listed / cULus Listed

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Ex Approvals


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## Approval details


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## Approvals

EAC			RU C- DE.AI30.B.01102
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UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E221474
Nominal voltage UN	60 V		
Nominal current IN	4 A		
mm <sup>2</sup> /AWG/kcmil	26-18		

cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E221474
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cULus Listed			
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