PHŒNIX CONTACT

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

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's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Bus system connector, CC link (10 Mbps), 4-position, shielded, Socket straight M12, Coding: A, 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

☑ Quick and easy installation, thanks to Push-in connection technology

RoHS

CC-Link

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 376271
GTIN	4055626376271
Weight per Piece (excluding packing)	40.000 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Diameter housing	19 mm
Length	59 mm
External cable diameter	4 mm ... 8 mm
Stripping length of the sheath	29 mm
Stripping length of the individual wire	7 mm

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

Technical data

Ambient conditions

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

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 mm² conductors)
Rated voltage	48 V AC
	60 V DC
Number of positions	4
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
	Shock, vibration EN 50155:2001
Signal type/category	CC link, 10 Mbps
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Push-in connection
Conductor 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)
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 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

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

Technical data

Material

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

Standards and Regulations

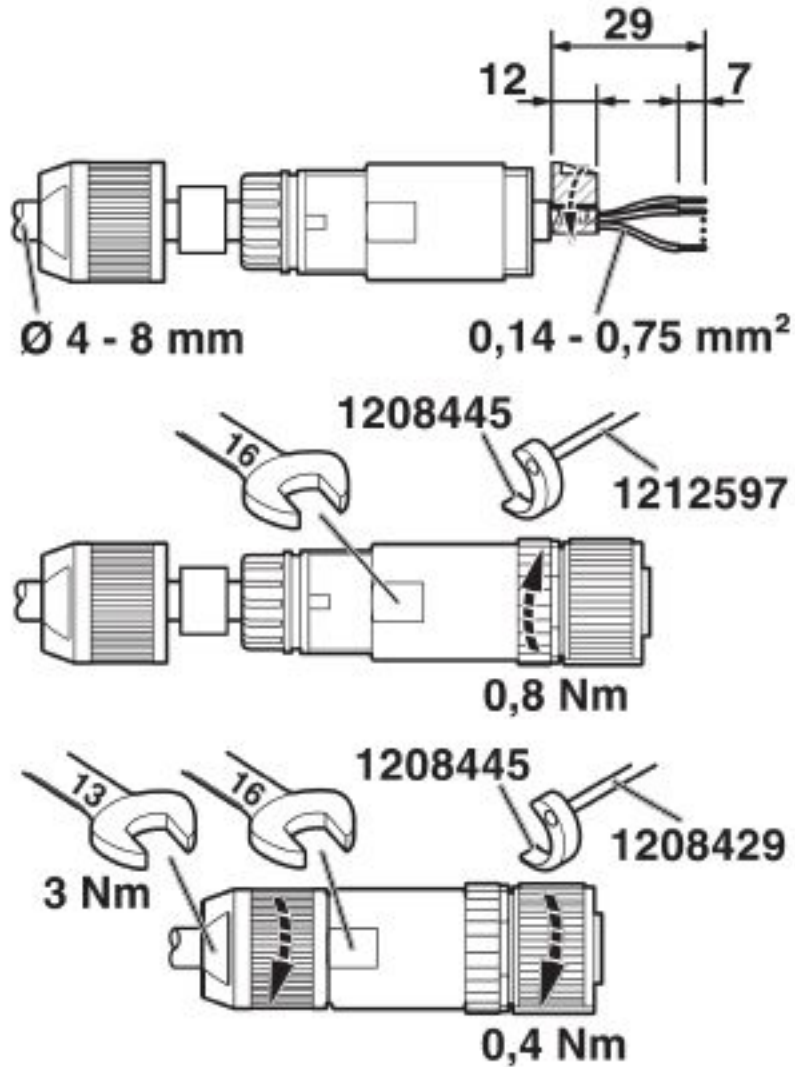| Standards/specifications	M12 connector IEC 61076-2-101
	Shock, vibration EN 50155:2001
Flammability rating according to UL 94	V0

Environmental Product Compliance

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

Drawings

PHŒNIX CONTACT

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

Functional drawing

29

12   7

Ø 4 - 8 mm   0,14 - 0,75 mm²

1208445   1212597

16   0,8 Nm

1208445   1208429

13   16

3 Nm   0,4 Nm
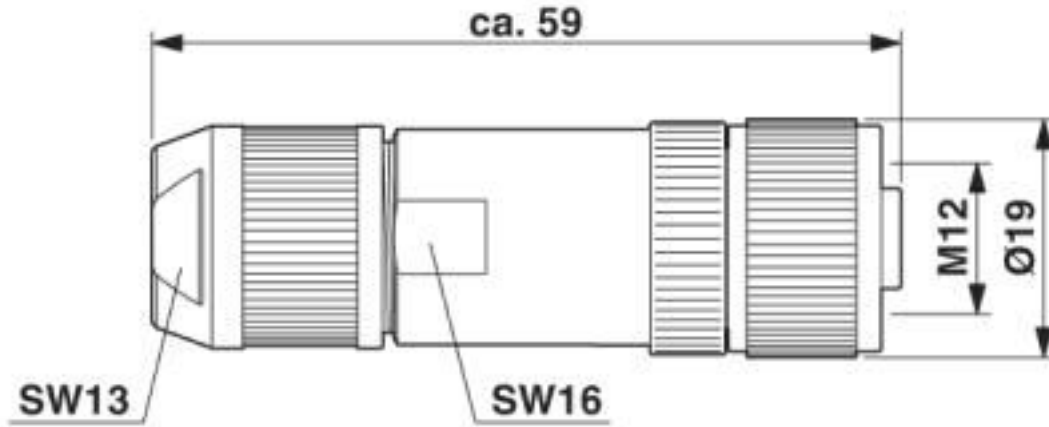
Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single wires, connect the wires, in the case of a straight sleeve housing gently twist the wires together, stick the shielding foil around the shortened shield, in the case of a cable outside diameter < 6 mm stick an additional shielding foil around the wire pack, screw the sleeve housing to the plug insert, screw the pressure nut tight.

PHŒNIX CONTACT

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

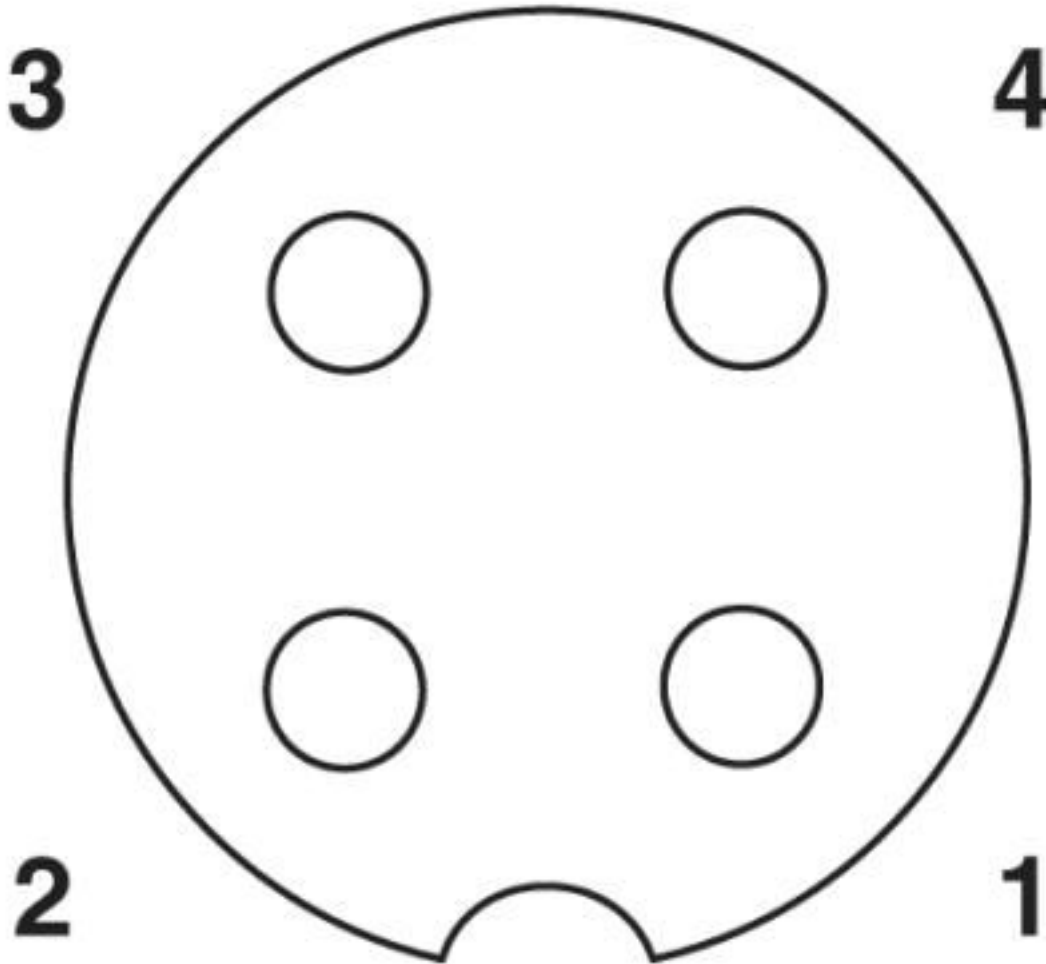Dimensional drawing

ca. 59

M12 Ø19

SW13 SW16

Socket M12-SPEEDCON, straight, shielded

PHŒNIX CONTACT

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

Schematic diagram

Pin assignment M12 socket, 4-pos., A-coded, view female side

Classifications

eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 5.1	27143423
eCl@ss 6.0	27279200
eCl@ss 7.0	27440104
eCl@ss 8.0	27440104
eCl@ss 9.0	27440102

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

Classifications

ETIM

ETIM 5.0	EC002635
ETIM 6.0	EC002635
ETIM 7.0	EC002635

Approvals

Approvals

Approvals

EAC / UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

EAC	EHC	RU C-DE.AI30.B.01102

UL Listed	(UL) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E221474

Nominal voltage UN	60 V
Nominal current IN	4 A
mm²/AWG/kcmil	26-18

cUL Listed	c(UL) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E221474

Nominal voltage UN	60 V
Nominal current IN	4 A
mm²/AWG/kcmil	26-18

PHŒNIX CONTACT

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

Approvals

EAC	EAC	RU C-DE.BL08.B.00511

cULus Listed	c (UL) us LISTED	

Accessories

Accessories

Cable end sleeve

Ferrule - AI 0,25- 6 YE - 3203024

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

Ferrule - A 0,25- 7 - 3202478

Ferrule, length: 7 mm, color: silver

Ferrule - A 0,34- 7 - 3009202

Ferrule, length: 7 mm, color: silver

PHŒNIX CONTACT

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

Accessories

Ferrule - A 0,5 - 6 - 3200218

Ferrule, length: 6 mm, color: silver

Ferrule - AI 0,5 - 6 WH - 3200687

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

Crimping tool

Crimping pliers - CRIMPFOX 6H - 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 mm² ... 6 mm², unlockable pressure lock, lateral entry

Data cable preassembled

Bus system cable - SAC-4P-M12MS/ 2,0-990 - 1558328

Bus system cable, CC link (10 Mbps), 4-position, PVC, red, shielded, Plug straight M12, coding: A, on free cable end, cable length: 2 m

Plug for cable screw gland

PHŒNIX CONTACT

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

Accessories

Screw plug - PROT-M12 MS-PA-CHAIN - 1430899

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

Screwdriver tools

Tool - SACC BIT M12-D20 - 1208445

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

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600

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

Shield connection

Shielding foil - ALU-SB - 1404531

Shielding foil, for fixing the braided shield of shielded cables. Length: 4 cm, width: 1.2 cm

Stripping tool

PHŒNIX CONTACT

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

Accessories

Stripping tool - WIREFOX 2,5 - 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 mm² stranded/1.5 mm² solid

Torque tool

Torque screwdriver - TSD 04 SAC - 1208429

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

Torque screwdriver - TSD 08 SAC - 1212597

Torque screw driver with preset torque of 0.8 Nm, with 4 mm hexagon for accommodating SAC bits, two-component handle with non-slip grip

Torque screwdriver - TSD-M 1,2NM - 1212224

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

Torque screwdriver - TSD-M 3NM - 1212225

Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 1.2 - 3 Nm

Bus system connector - SACC-M12FS-4PL SH CCL - 1424700

Accessories

Stripping tool - VS-CABLE-STRIP-VARIO - 1657407

Stripping tool, for the multi-level stripping of shielded cables