PHŒNIX CONTACT

Connector - SACC-M12FS-4PL - 1424693

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Connector, Universal, 4-position, unshielded, Socket straight M12, Coding: A, Push-in connection, knurl material: Plastic, 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

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 376202
GTIN	4055626376202

Technical data

Dimensions

Diameter housing	19 mm
Length	58 mm
External cable diameter	4 mm ... 8 mm
Stripping length of the sheath	24 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 mm² conductors)
Rated voltage	250 V AC
	250 V DC
Number of positions	4
Color handle area	black
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Signal type/category	Universal
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)
	0.4 Nm (Connector with coupling sleeve)
	1.5 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	PA 6.6
Material, knurls	Plastic
Sealing material	NBR

Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-101
Flammability rating according to UL 94	V0

Environmental Product Compliance

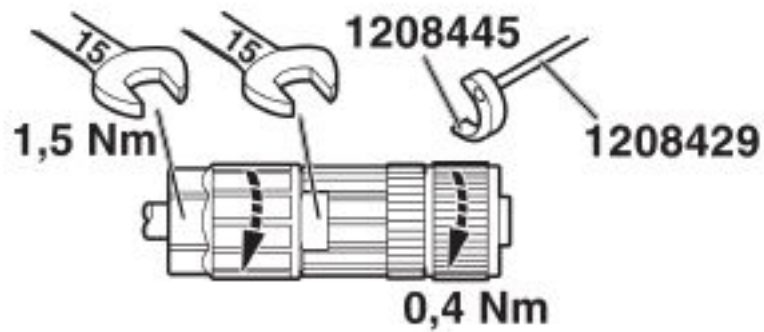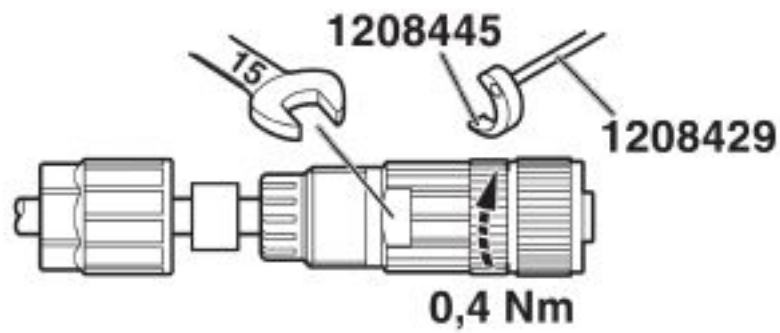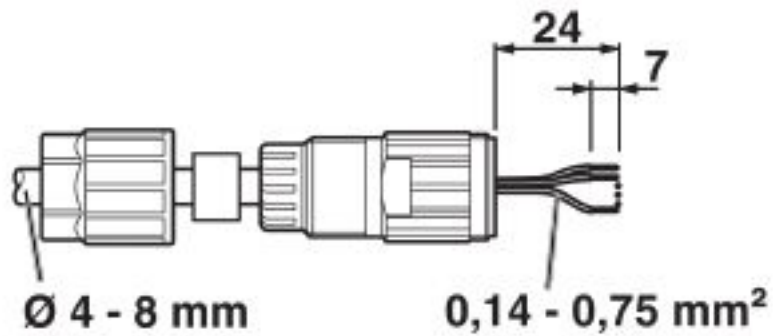| China RoHS	Environmentally friendly use period: unlimited = EFUP-e

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Technical data

Environmental Product Compliance

	No hazardous substances above threshold values

Drawings

Functional drawing

Ø 4 - 8 mm   0,14 - 0,75 mm²

1208445
15
1208429
0,4 Nm

15   15   1208445
1,5 Nm   1208429
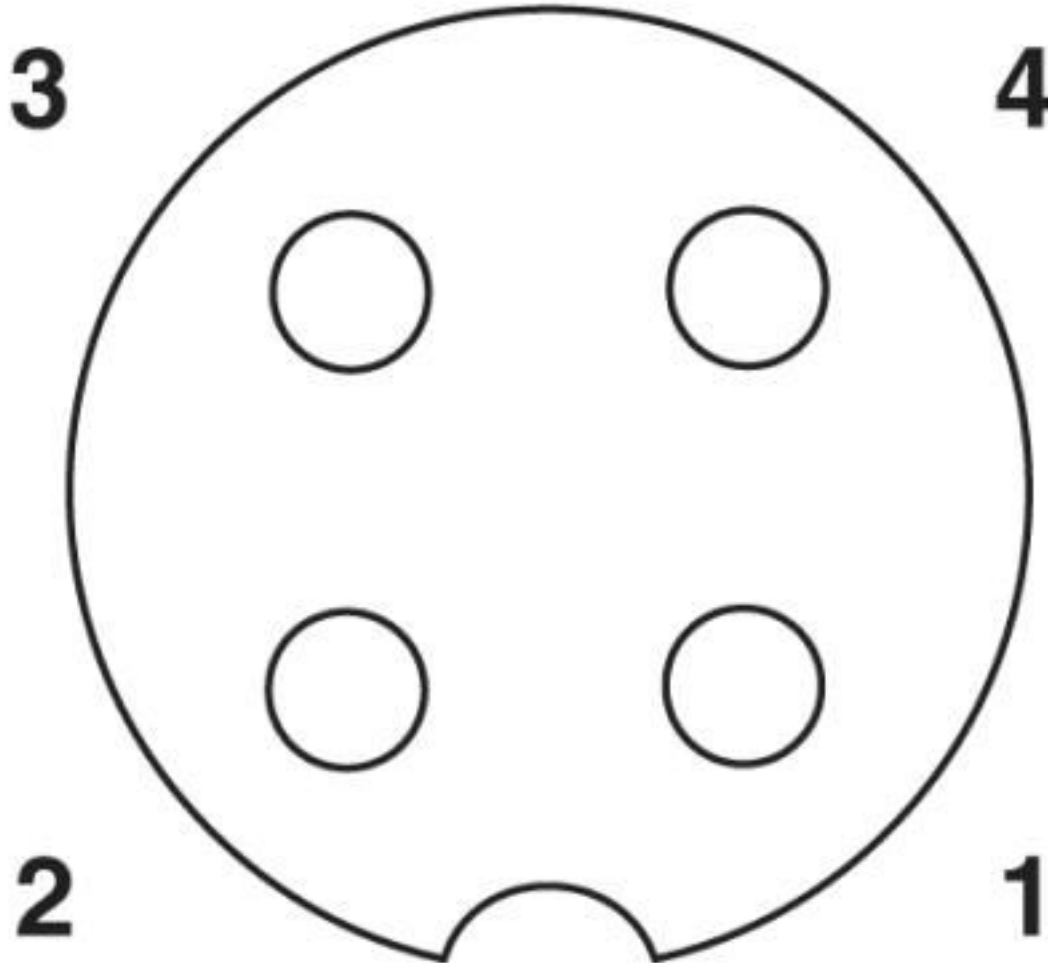0,4 Nm

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Dimensional drawing
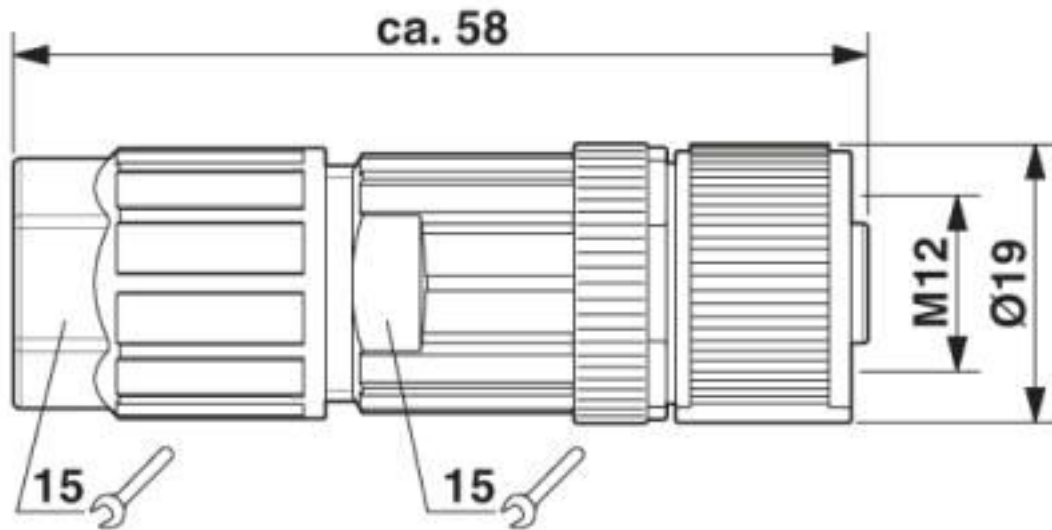
M12 x 1 socket, straight

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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

ETIM

ETIM 5.0	EC002635
ETIM 6.0	EC002635
ETIM 7.0	EC002635

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Approvals

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

Ex Approvals

Approval details

EAC	EAC		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		250 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		250 V	
Nominal current IN		4 A	
mm²/AWG/kcmil		26-18	

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

cULus Listed	c UL us LISTED	

Accessories

Accessories

Cable by the meter

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Accessories

Cable reel - SAC-4P-100,0-PUR/0,25 - 1501692

By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m

Cable reel - SAC-4P-100,0-PUR/0,34 - 1501663

By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m

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

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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

Plug for cable screw gland

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

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Accessories

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

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Stripping tool

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

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Stripping tool - WIREFOX SAC - 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

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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

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

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

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