PHŒNIX CONTACT

Connector - SACC-P12MR-5CT-CM SH - 1021816

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Connector, Universal, 5-position, shielded, Plug angled M12 Push-Pull, Coding: A, Crimp connection, knurl material: PA 6.6, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

Your advantages

☑ Plug and Produce: convenient and secure connection, thanks to the manufacturer-independent locking system

☑ Extremely compact, thanks to the small wiring space and high contact density

☑ Clear feedback: the connector springs back when not snapped into place correctly

☑ Safely shielded: reliable shield connection even under extreme mechanical strain

☑ Robust connection: suitable for railway applications with high shock and vibration loads

☑ Automated processing possible

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 514659
GTIN	4055626514659

Technical data

Dimensions

Wrench size, union nut	15 mm
Diameter housing	22 mm
Length	53 mm
External cable diameter	4.5 mm ... 7.5 mm
Stripping length of the sheath	18 mm
Stripping length of the individual wire	4 mm +0,5 mm

Ambient conditions

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

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Ambient conditions

	IP68
	IP69K

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
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 In line with
	Shock, vibration EN 50155:2001
Signal type/category	Universal
Status display	No
Overvoltage category	III
Degree of pollution	3
Connection method	Crimp connection
Conductor cross section	0.14 mm² ... 1 mm² (flexible)
Conductor cross section AWG	26 ... 18 (flexible)
Wire diameter incl. insulation	≤ 2.55 mm (Contact 5 up to max. 2.0 mm)
Insertion/withdrawal cycles	≥ 100
Torque	1.5 Nm (Screw plug insert with sleeve housing as far it will go)
	4 Nm (Pressure nut with coupling sleeve)
Assembly instructions	The pin assignment can be rotated in a 30° pitch to the cable outlet

Material

Flammability rating according to UL 94	V0
Contact carrier material	PA 6.6
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	PA 6.6
Sealing material	NBR
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Cable

Standards/specifications	M12 connector IEC 61076-2-101 In line with
	Shock, vibration EN 50155:2001

Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-101 In line with

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Technical data

Standards and Regulations

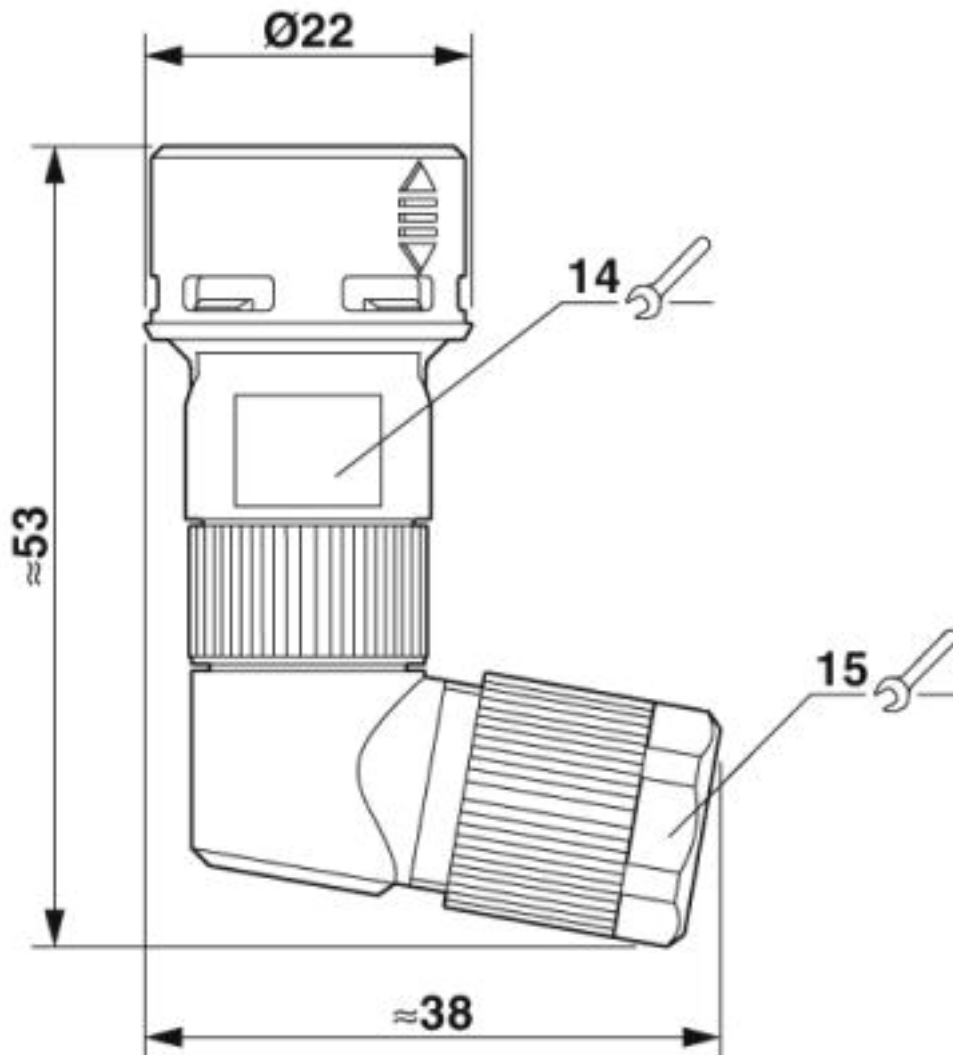|	Shock, vibration EN 50155:2001
Flammability rating according to UL 94	V0

Environmental Product Compliance

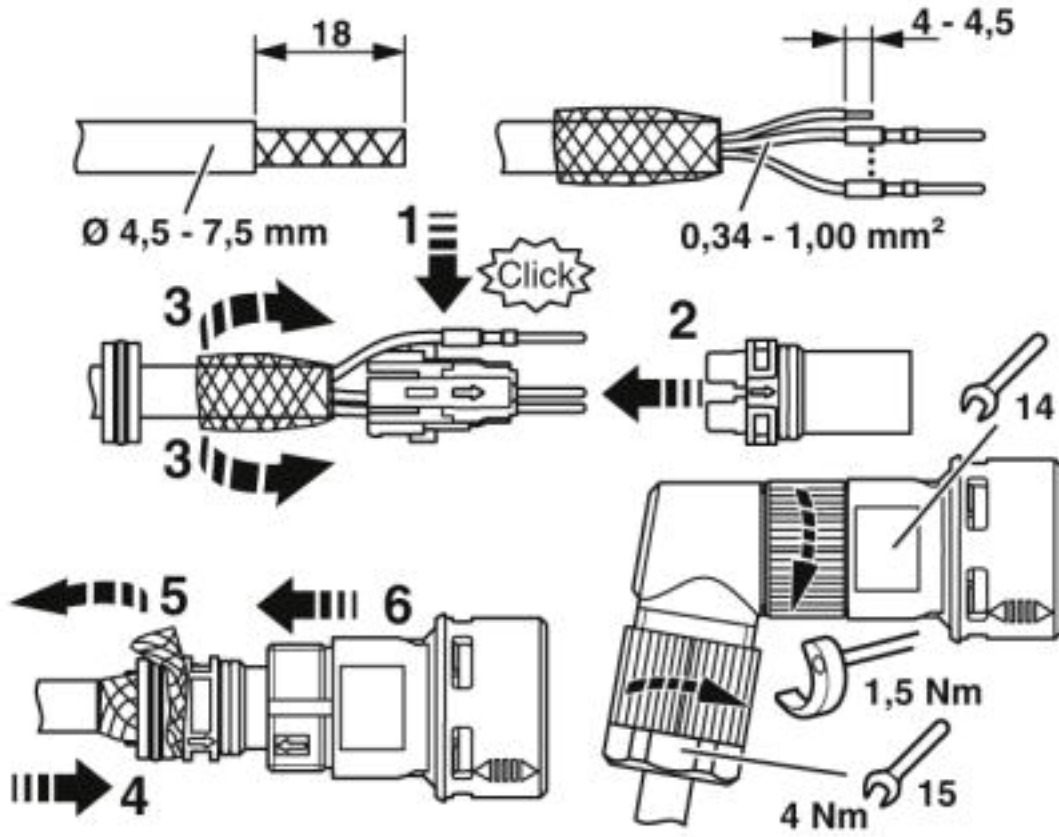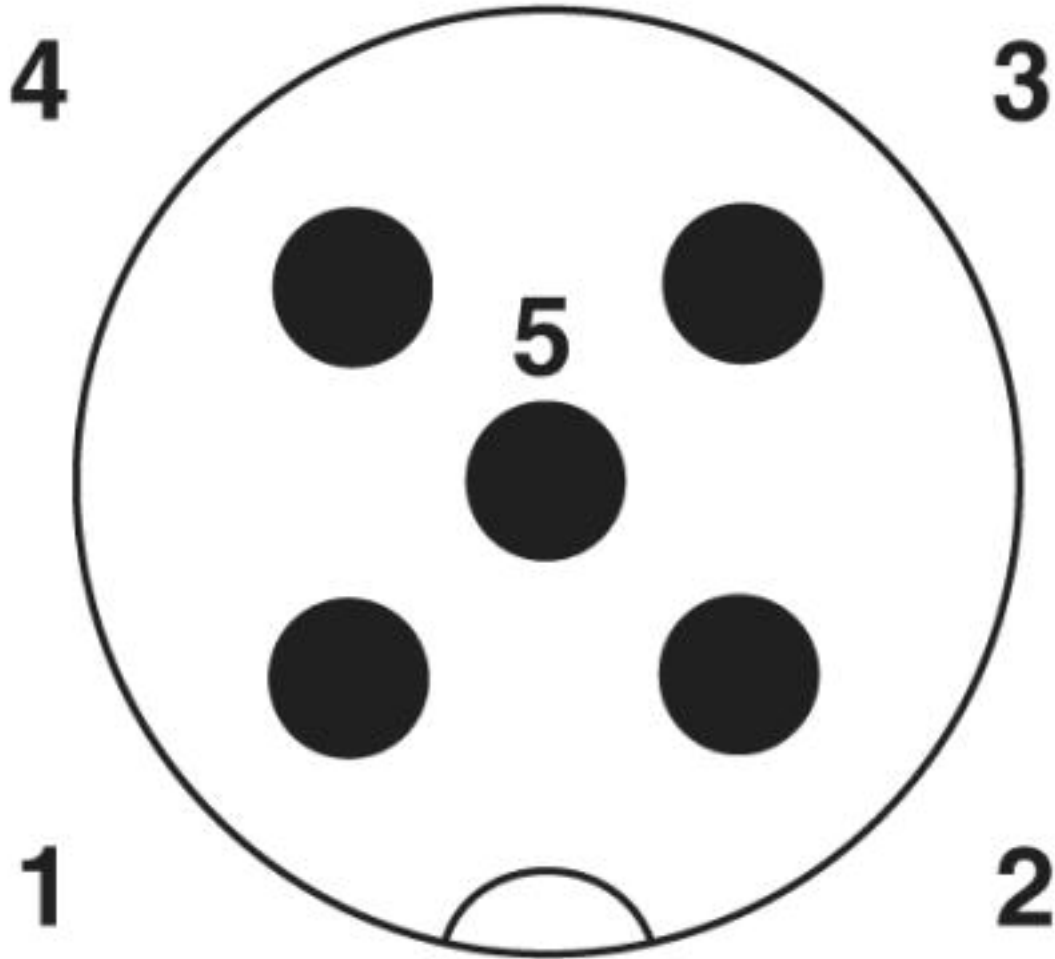| China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing

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Functional drawing

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Schematic diagram

Classifications

eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 9.0	27440102

ETIM

ETIM 5.0	EC002062
ETIM 6.0	EC002062

Approvals

Approvals

Approvals

EAC

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Approvals

Ex Approvals

Approval details

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

Accessories

Accessories

Crimp contact

Crimp contact - CC1,0-TS-0,34M AU - 1064040

Crimp contact, contact diameter: 1 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 0.14 mm² ... 0.34 mm² AWG 26 ... 22

Crimp contact - CC1,0-TS-1,00M AU - 1423645

Crimp contact, contact diameter: 1 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 0.34 mm² ... 1 mm² AWG 22 ... 18

Crimping tool

Crimping pliers - CRIMPFOX-TC MP - 1212510

Crimping pliers, for turned contacts, universal cross section setting, up to a maximum of 2.5 mm², digital display with 0.01 mm increments, pressure lock can be unlocked, including positioning tool

Electronics pliers

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Accessories

Diagonal cutter - MICROFOX-SB - 1212489

Electronic diagonal cutter, round head, without chamfer, with opening spring, mirror-polished and oiled, 2-component grip, cutting capacity: soft 0.2 - 2.0 mm; medium hard 1.2 mm; hard 0.5 mm diameter

Stripping tool

Stripping tool - WIREFOX-D 13 - 1212162

Stripping tool, for stripping installation lines of Ø 8 - 13 mm , e.g. NYM 3 x 1.5 mm² to 5 x 2.5 mm², single line stripping 0.2 mm² - 4 mm² , with longitudinal cut blade and sliding knife

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

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

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

Necessary add-on products

Crimp contact - CC1,0-TS-0,34M AU - 1064040

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Accessories

Crimp contact - CC1,0-TS-1,00M AU - 1423645

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