PHŒNIX CONTACT

Data connector - SACC-P12MRX-8CT-CL SH - 1021784

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)

Data connector, Ethernet/PROFINET CAT6$_A$ (10 Gbps), 8-position, shielded, Plug angled M12 Push-Pull, Coding: X, Crimp connection, knurl material: PA 6.6, external cable diameter 6.5 mm ... 10 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

PROFINET Ethernet   CAT6$_A$

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 514635
GTIN	4055626514635

Technical data

Dimensions

Wrench size, union nut	15 mm
Diameter housing	22 mm
Length	53 mm
External cable diameter	6.5 mm ... 10 mm
Stripping length of the sheath	20 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

![PHOENIX CONTACT]

Data connector - SACC-P12MRX-8CT-CL SH - 1021784

Technical data

Ambient conditions

	IP68
	IP69K

General

Note	This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 8.2 Connectors for Outside Environment (Balanced cabling)
	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	0.5 A
Rated voltage	48 V AC
	60 V DC
Number of positions	8
Insulation resistance	$\geq 100\ \Omega$
Coding	X - data
Standards/regulations	M12 connector IEC 61076-2-109 In line with
	Shock, vibration EN 50155:2001
Signal type/category	Ethernet/PROFINET CAT6$_A$ (IEC 11801), 10 Gbps
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Crimp connection
Conductor cross section	0.14 mm² ... 0.34 mm² (flexible)
Conductor cross section AWG	26 ... 22 (flexible)
Wire diameter incl. insulation	≤ 1.6 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
Transmission characteristics (category)	CAT6$_A$

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)

Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-109 In line with

PHŒNIX CONTACT

Data connector - SACC-P12MRX-8CT-CL SH - 1021784

Technical data

Standards and Regulations

	Shock, vibration EN 50155:2001
Flammability rating according to UL 94	V0
Standards/regulations	acc. to DIN EN 45545-2

Environmental Product Compliance

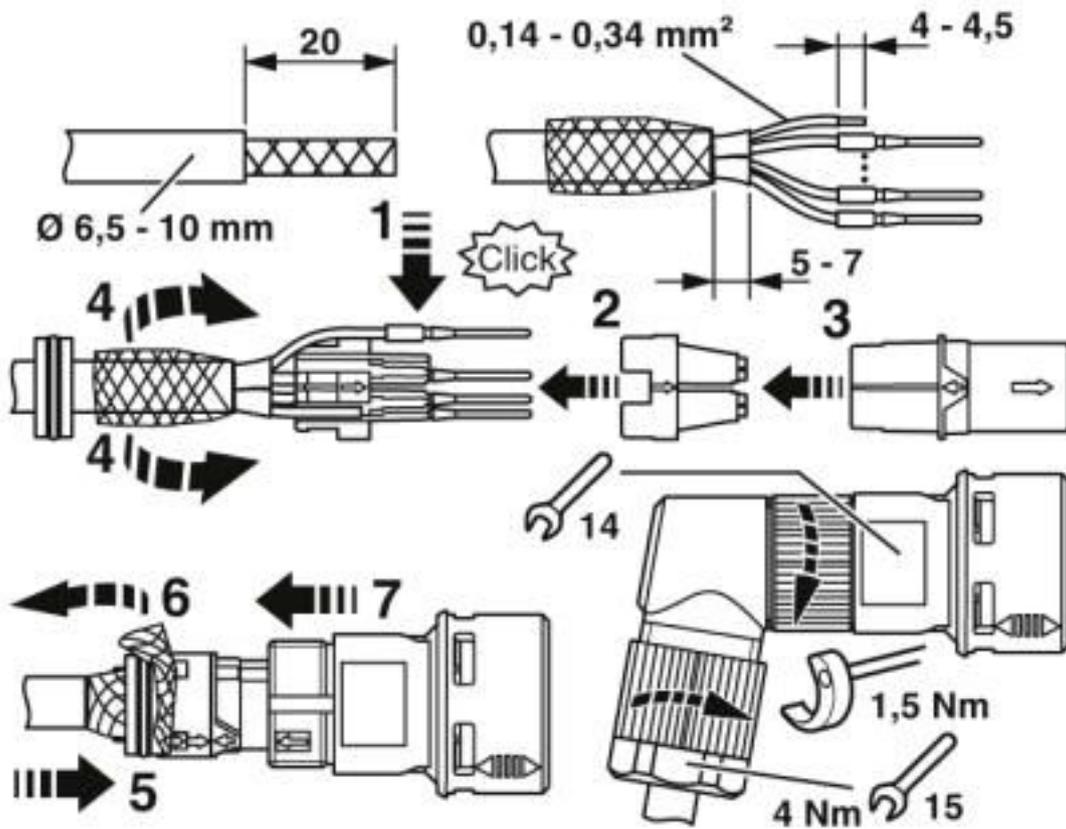| China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing
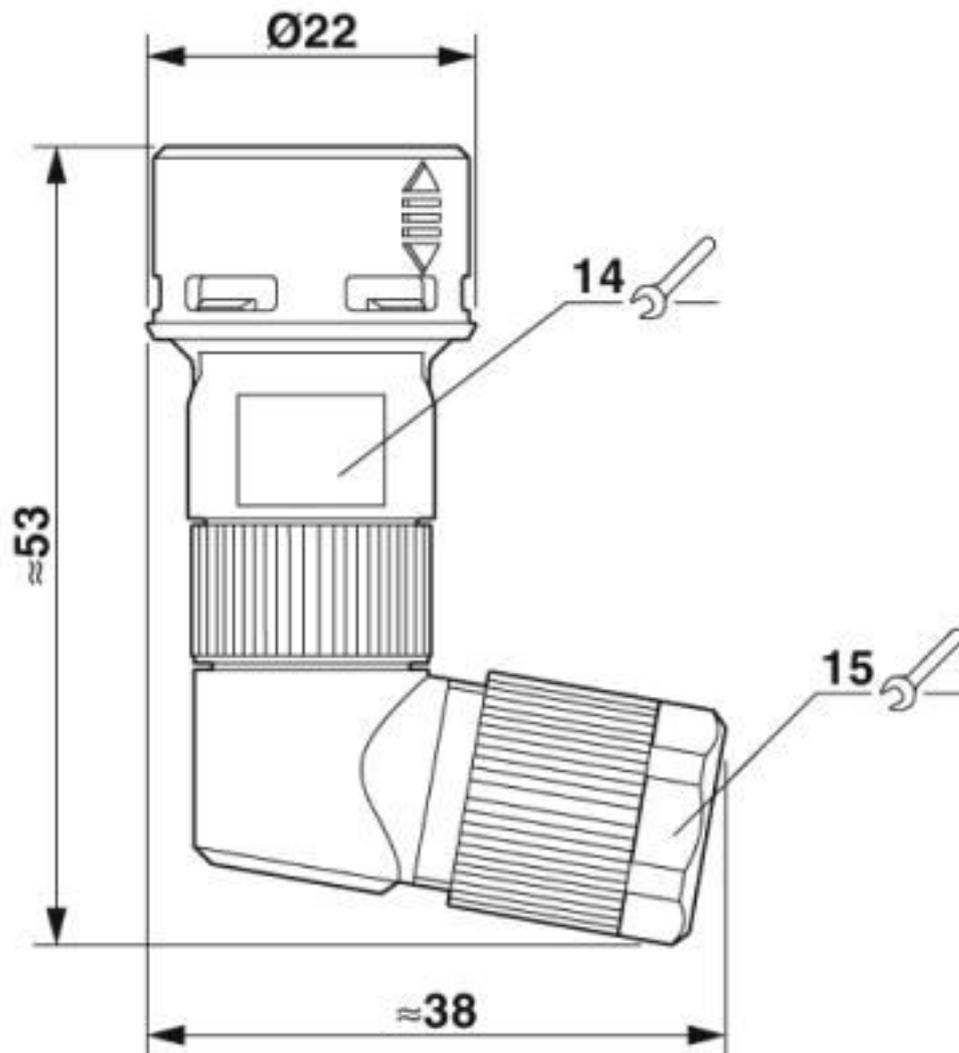
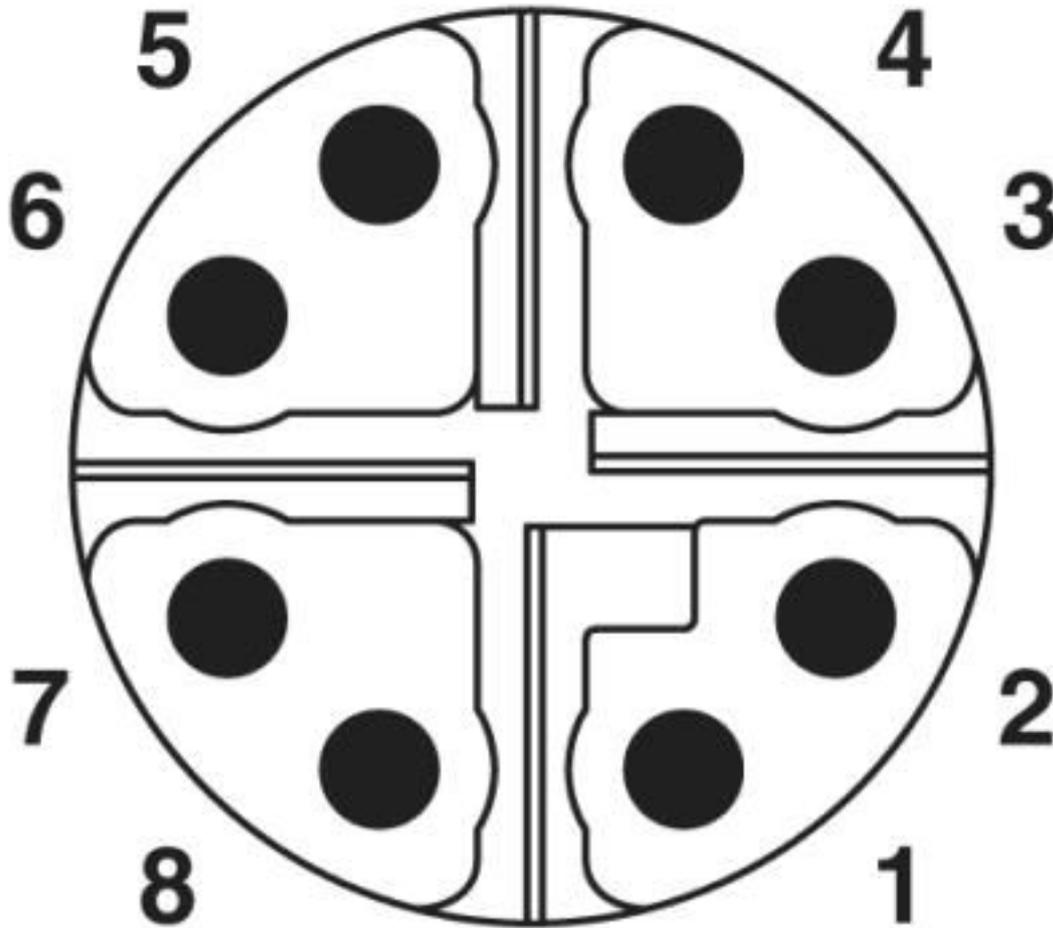M12 push-pull plug, angled, shielded

Data connector - SACC-P12MRX-8CT-CL SH - 1021784

Functional drawing

Data connector - SACC-P12MRX-8CT-CL SH - 1021784

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

PHŒNIX CONTACT

Data connector - SACC-P12MRX-8CT-CL SH - 1021784

Approvals

Ex Approvals

Approval details

EAC	ᴇᴀᴄ	RU C-DE.AI30.B.01102

Accessories

Accessories

Crimp contact

Crimp contact - CC0,6-TS-0,34M AU - 1423643

Crimp contact, contact diameter: 0.6 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 0.14 mm² ... 0.34 mm² AWG 26 ... 22

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

---

Data cable by the meter

Network cable - NBC-100,0-94S - 1423514

By the meter, Network cable, Ethernet CAT7 (10 Gbps), shielded, PE-X halogen-free, black, 8-wire (4x2xAWG26/7; S/FTP), color single wire: White-blue, white-orange, white-green, white-brown, cable length: 100 m, For railway applications

---

Electronics pliers

Data connector - SACC-P12MRX-8CT-CL SH - 1021784

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

Necessary add-on products

Crimp contact - CC0,6-TS-0,34M AU - 1423643

Crimp contact, contact diameter: 0.6 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 0.14 mm² ... 0.34 mm² AWG 26 ... 22

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Circular Metric Connectors *category:*

Click to view products by Phoenix Contact *manufacturer:*

Other Similar products are found below :

600X518037X 6STD15PCR99B70A 8R4000A16M020 8R5000A16M005 1200910002 1203580030 1200910008 1200910011 1300140094 130203-0054 1300140026 1300150099 RF-12S1N8A90DU 1612618 21036836414 8R4006A16M010 1604232 1R3006A20M005 RF-12P1N8A80DU RF-12P1N8A90DU 41-40011 42-00006 42-01015 4-22279-4 4-22281-1 4-22284-9 43-00113 43-01088 43-01203 41-40013 42-00008 43-00343 43-01026 43-01032 43-01162 43-01173 43-10000 XS3P-M421-2 600X518050X SACC-DSI-FS-5P-PG9-L180 SC 8R5006A16M020 8R5006A16M005 8R4000A16M010 6-22279-3 1605332 N03FA03144 1300140077 43-16213 43-01338 XS2RD4265