PHŒNIX CONTACT

Connector - SACC-P12MSX-8CT-CL SH - 1021783

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Connector, Ethernet/PROFINET CAT6$_A$ (10 Gbps), 8-position, shielded, Plug straight M12 Push-Pull, X-coded, Crimp connection, knurl material: PA 6.6, external cable diameter 6.5 mm ... 10 mm, without crimp contacts

Why buy this product

☑ 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   PROFI·NET®   Ethernet   CAT6$_A$ 10 Gigabit/s

Key Commercial Data

Packing unit	1 STK
GTIN	4 055626 514628
GTIN	4055626514628
Weight per Piece (excluding packing)	33.000 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Wrench size, union nut	15 mm
Diameter housing	22 mm
Length	44 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

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Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)
Degree of protection	IP65
	IP67
	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)
Rated current at 40°C	0.5 A
Rated voltage	50 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	4 Nm (Pressure nut with coupling sleeve)

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

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-109
Standard designation	Shock, vibration
Standards/regulations	EN 50155:2001

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Technical data
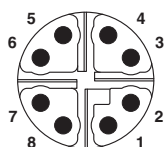
Standards and Regulations

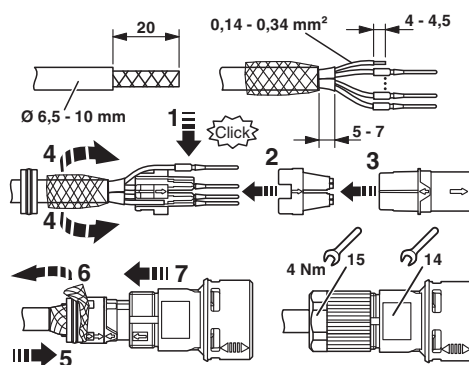| Flammability rating according to UL 94	V0

Environmental Product Compliance

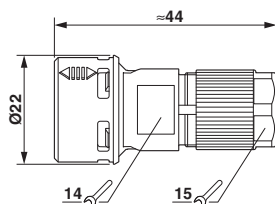| China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Schematic diagram

Functional drawing

Dimensional drawing

M12 push-pull plug, straight, shielded

Classifications

eCl@ss

eCl@ss 9.0	27440102

ETIM

ETIM 5.0	EC002062
ETIM 6.0	EC002062

Approvals

Approvals

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Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC	EAC	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

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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

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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

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