SACC-CC-8QO SH PN - Conductor connector

1414413

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Cable connector, PROFINET CAT6$_A$ (10 Gbps), 8-pos., halogen-free, shielded, insulation displacement connection, housing material: zinc die-cast, nickel-plated, outer cable diameter of 5 mm ... 9.7 mm

Your advantages

- Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- Safe use in the field, thanks to a high degree of protection
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference
- Insulation displacement connection: innovative and time-saving assembly without stripping the single wire

Commercial data

Item number	1414413
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF31
Product key	AF6EFN
GTIN	4055626026701
Weight per piece (including packing)	63.6 g
Weight per piece (excluding packing)	63.6 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Assembly note	NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

Mounting

Assembly note	If the conductor is to be reconnected, it must be cut off above the last contact point.

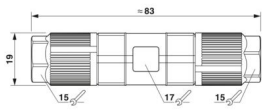
Product properties

Product type	Cable connector
Number of positions	8
No. of cable outlets	2
Shielded	yes

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	83 mm
Wrench size, union nut	15 mm
Wrench size, counter nut	17 mm

External dimensions

Outside diameter	5 mm ... 9.7 mm

Connection data

Connection technology

Connection method	Insulation displacement connection
Frequency of connections between conductors of the same cross section	10

Conductor connection

Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	Class 2-6
Tightening torque	5 Nm (Pressure nut)
Wrench size, union nut	15 mm

Wrench size, contact carrier	17 mm
Wire diameter including insulation	0.75 mm ... 2 mm
Tightening torque	5 Nm (Pressure nut)

Connection assignment

Contact | Color (signal designation) | Contact (optional)	1 = YE
	2 = OG
	3 = WH
	4 = BU

Electrical properties

Rated surge voltage	0.8 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	50 V AC
	60 V DC
Nominal current I_N	0.5 A (30 W)
Transmission speed	10 Gbps
Transmission characteristics (category)	$CAT6_A$

Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Wire insulation material	PVC / PE / PP / rubber

Connector

Connection 1

Head design	Cable connectors

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C
Ambient temperature (assembly)	-5 °C ... 50 °C

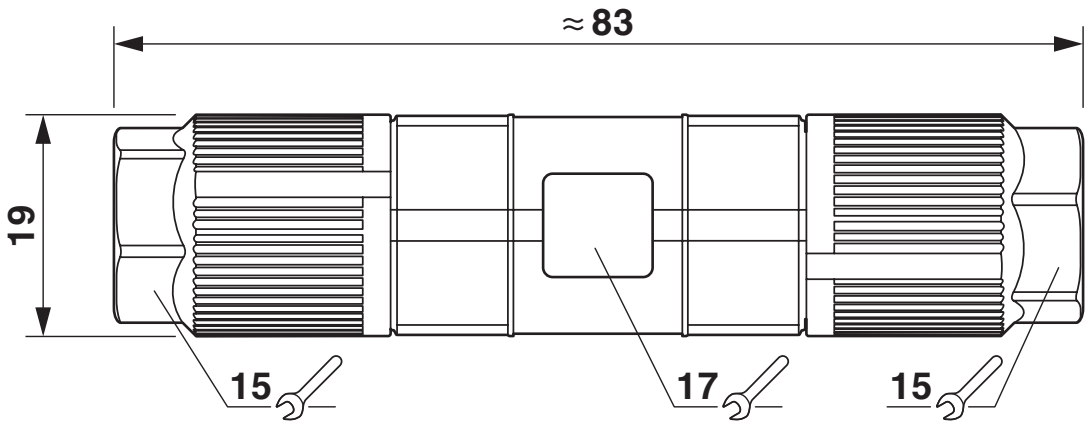
Standards and regulations

Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
Standards/specifications	according to IEC 61076-2-109

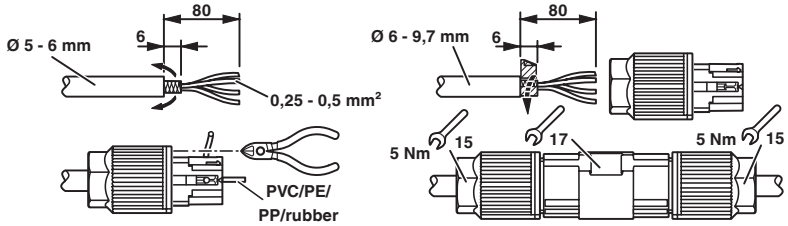
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001

Drawings

Dimensional drawing



Functional drawing



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1414413

EAC-RoHS
Approval ID: RU D-DE.HB35.B.00387

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

EF3.1 Climate Change

CO2e kg	2.926 kg CO2e

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