

SACC-CC-8QO SH PN - Conductor connector



1414413

<https://www.phoenixcontact.com/gb/products/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 | BF6EFN |
| Product key | BF6EFN |
| Catalog page | Page 344 (C-2-2017) |
| 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 |

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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 |
| Sensor type | PROFINET |
| Number of positions | 8 |
| No. of cable outlets | 2 |
| Shielded | yes |

Data management status

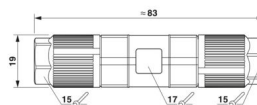
| | |
|------------------|----|
| Article revision | 04 |
|------------------|----|

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

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| | |
|---|---------------------|
| 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) |

Pin 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 | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage U_N | 50 V AC |
| | 60 V DC |
| Nominal current I_N | 0.5 A (30 W) |
| 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 |
| 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) |
| Wire insulation material | PVC / PE / PP / rubber |

Connector

Connection 1

| | |
|-------------|------------------|
| Head design | Cable connectors |
|-------------|------------------|

Cable/line

| | |
|----------------------|---|
| Signal type/category | PROFINET CAT6 _A (IEC 11801), 10 Gbps |
|----------------------|---|

Environmental and real-life conditions

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP65 |
| | IP67 |

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| | |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Ambient temperature (assembly) | -5 °C ... 50 °C |

Standards and regulations

Testing

| | |
|--------------------------|---|
| 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 | based on IEC 61076-2-109 |
| Standard designation | Shock, vibration |
| Standards/specifications | EN 50155:2001 |

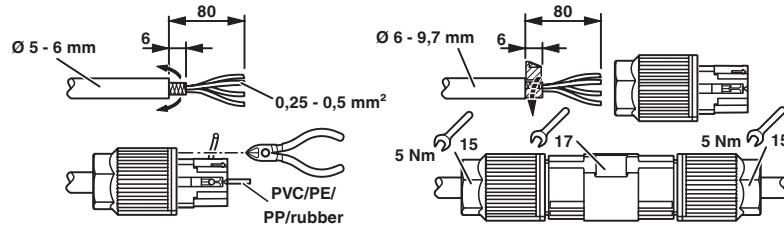
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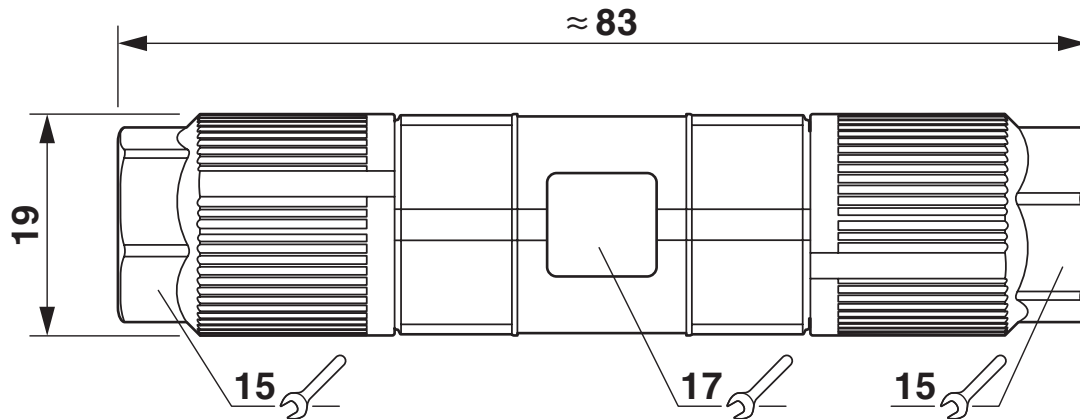
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Drawings

Functional drawing



Dimensional drawing




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Approvals

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



EAC

Approval ID: RU C-DE.BL08.B.00511



EAC-RoHS

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

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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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% |

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