# SACC-CC-8QO SH ETH - Conductor connector

1414412

https://www.phoenixcontact.com/us/products/1414412

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Cable connector, Ethernet 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 | 1414412 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF31 |
| Product key | AF6EFI |
| GTIN | 4055626025490 |
| Weight per piece (including packing) | 62.8 g |
| Weight per piece (excluding packing) | 62 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. |

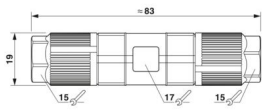
### Product properties

| | |
|---|---|
| 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 = WHOG (D1+) |
| | 2 = OG (D1-) |
| | 3 = WHGN (D2+) |
| | 4 = GN (D2-) |
| | 5 = WHBN (D4+) |
| | 6 = BN (D4-) |
| | 7 = WHBU (D3-) |
| | 8 = BU (D3+) |

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 0.8 kV |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 48 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

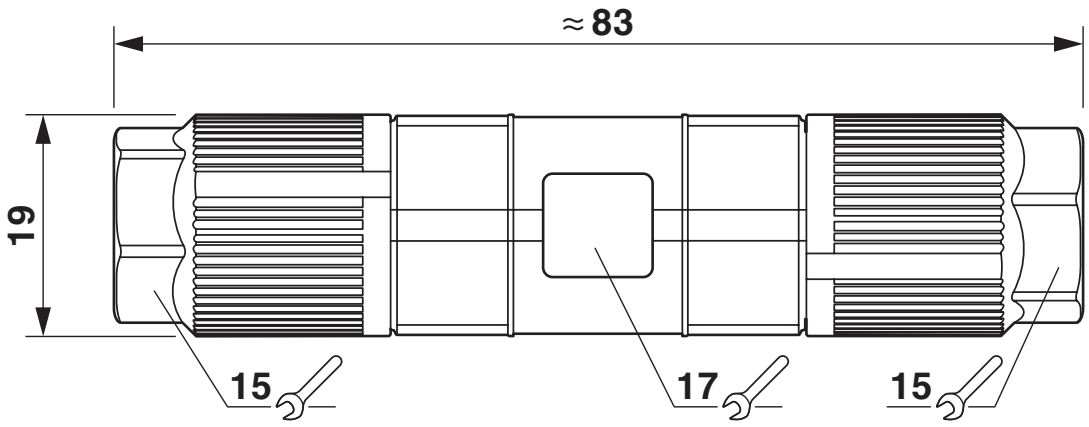
| | |
|---|---|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) (male connector/female connector) | -40 °C ... 85 °C |
| Ambient temperature (assembly) | -5 °C ... 50 °C |

## Standards and regulations

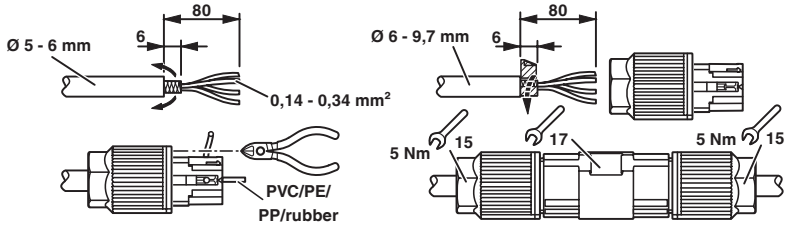
| | |
|---|---|
| Standards/regulations | PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |
| Standards/specifications | according to IEC 61076-2-109 |
| Standard designation | Shock, vibration |
| Standards/specifications | EN 50155:2001 |

## Drawings

Dimensional drawing




Functional drawing



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1414412

**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 | 3.509 kg CO2e |


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