

SACC-M12MSX-8CT-CL SH - Data connector



1422844

<https://www.phoenixcontact.com/in/products/1422844>

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Data connector, Ethernet CAT6_A (10 Gbps), PROFINET CAT6_A (10 Gbps), 8-position, shielded, Plug straight M12, X, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 6.5 mm ... 10 mm, without crimp contacts

Your advantages

- Extremely compact, thanks to the small wiring space and high contact density
- Safe use in the field, thanks to a high degree of protection
- Safely shielded: reliable shield connection even under extreme mechanical strain
- Robust connection: suitable for railway applications with high shock and vibration loads

Commercial Data

| | |
|--------------------------------------|--------------------|
| Item number | 1422844 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | BF2 |
| Product Key | BF2CJJ |
| Catalog Page | Page 27 (C-2-2019) |
| GTIN | 4055626381886 |
| Weight per Piece (including packing) | 22.6 g |
| Weight per Piece (excluding packing) | 22.2 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical Data

Notes

| | |
|-----------------------|--|
| General | 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) |
| Assembly instruction: | 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. |

Mounting

| | |
|-----------------------|--|
| Assembly instructions | Contacts can be clipped in place and unclipped without tools |
| Connection method | Crimp connection |

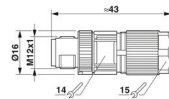
Product properties

| | |
|----------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Number of positions | 8 |
| Sensor type | Ethernet |
| Application | Data |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | X |
| Cable outlet | straight |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 3 |

Dimensions

| | |
|--------------------------|--|
| Dimensional drawing |  |
| Length | 43 mm |
| Wrench size, union nut | 15 mm |
| Wrench size, counter nut | 14 mm |

External dimensions

| | |
|------------------|------------------|
| Outside diameter | 6.5 mm ... 10 mm |
|------------------|------------------|

Housing

| | |
|------------------|-------|
| Diameter housing | 16 mm |
|------------------|-------|

Material specifications

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| | |
|--|--|
| Flammability rating according to UL 94 | V0 |
| Seal material | FKM |
| Material of grip body | Zinc die-cast, nickel-plated |
| Contact carrier material | PA 6.6 |
| Material for screw connection | Zinc die-cast, tin-plated |
| 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) |

Connection data

Conductor connection

| | |
|---|--|
| Connection method | Crimp connection |
| Connection cross section | 0.14 mm ² ... 0.34 mm ² (flexible) |
| Connection cross section AWG | 26 ... 22 (flexible) |
| Stripping length of the individual wire | 4 mm +0,5 mm |
| Tightening torque | 0.4 Nm (M12 knurl) 4 Nm (Pressure nut with coupling sleeve) |

Pin 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

| | |
|----------------------------------|--------------------|
| Min. AWG, flexible, multi-strand | 26 |
| 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 |

Mechanical properties

Mechanical data

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

Connector

Connection 1

| | |
|-------------------|----------|
| Head design | Plug |
| Head cable outlet | straight |

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| | |
|------------------|-----|
| Head thread type | M12 |
| Coding | X |

Cable/line

| | |
|---|--|
| Signal type/category | Ethernet CAT6 _A (IEC 11801), 10 Gbps PROFINET CAT6 _A (IEC 11801), 10 Gbps |
| Stripping length of the individual wire | 4 mm +0,5 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Degree of protection | IP65 IP67 |
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |
| 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, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |
|-----------------------|--|

M12

| | |
|--------------------------|-----------------|
| Standards/specifications | IEC 61076-2-109 |
| Standards/specifications | EN 50155:2001 |

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