

SACC-M12MSX-8QO SH PN - Data connector



1411044

<https://www.phoenixcontact.com/us/products/1411044>

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Data connector, PROFINET CAT6_A (10 Gbps), 8-position, halogen-free, shielded, Plug straight M12, coding: X, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

Your advantages

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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1411044 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF31 |
| Product key | AF2CDN |
| GTIN | 4046356997898 |
| Weight per piece (including packing) | 43.2 g |
| Weight per piece (excluding packing) | 43.2 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

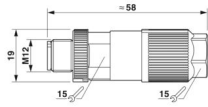
Product properties

| | |
|----------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Application | Data |
| Number of positions | 8 |
| 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 | 58 mm |
| Wrench size, union nut | 15 mm |

External dimensions

| | |
|------------------|-----------------|
| Outside diameter | 5 mm ... 9.7 mm |
|------------------|-----------------|

Housing

| | |
|------------------|-------|
| Diameter housing | 19 mm |
|------------------|-------|

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 |
| Wire insulation material | PVC / PE / PP / rubber |

Connection data

Conductor connection

| | |
|-------------------|------------------------------------|
| Connection method | Insulation displacement connection |
|-------------------|------------------------------------|

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| | |
|------------------------------|---|
| Connection cross section | 0.25 mm ² ... 0.5 mm ² (flexible) |
| | 0.25 mm ² ... 0.5 mm ² (solid) |
| Connection cross section AWG | 24 ... 20 (flexible) |
| | 24 ... 20 (solid) |
| Tightening torque | M12 knurl |
| | 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 | 48 V AC |
| | 60 V DC |
| Nominal current I _N | 0.5 A |
| Transmission speed | 10 Gbps |

Mechanical properties

Mechanical data

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

Connector

Connection 1

| | |
|-------------------|----------|
| Head design | Plug |
| Head cable outlet | straight |
| Head thread type | M12 |
| Coding | X |

Cable/line

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

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

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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

| | |
|--------------------------|------------------------------|
| Standard designation | M12 connector |
| Standards/specifications | according to IEC 61076-2-109 |
| Standard designation | Shock, vibration |
| Standards/specifications | EN 50155:2001 |

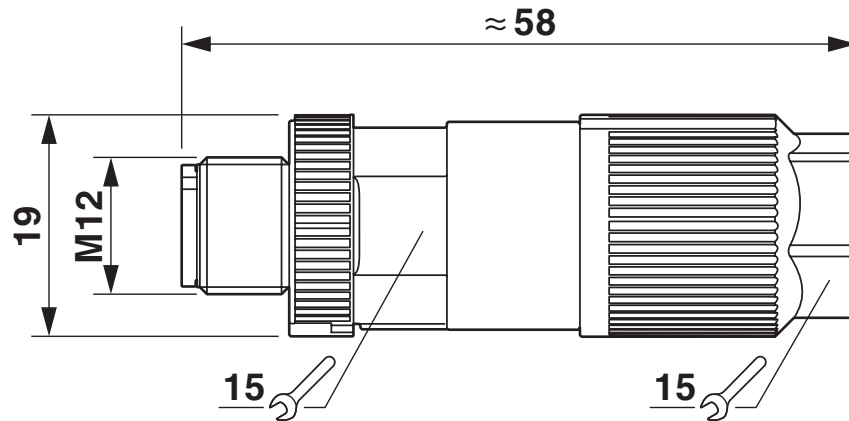
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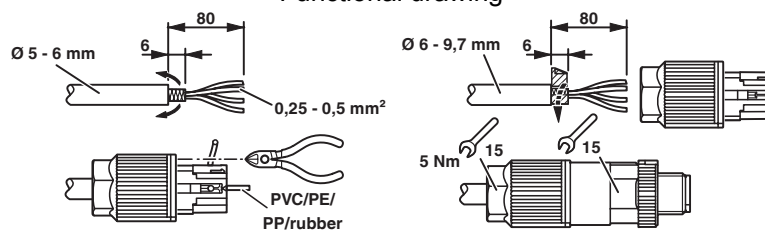
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

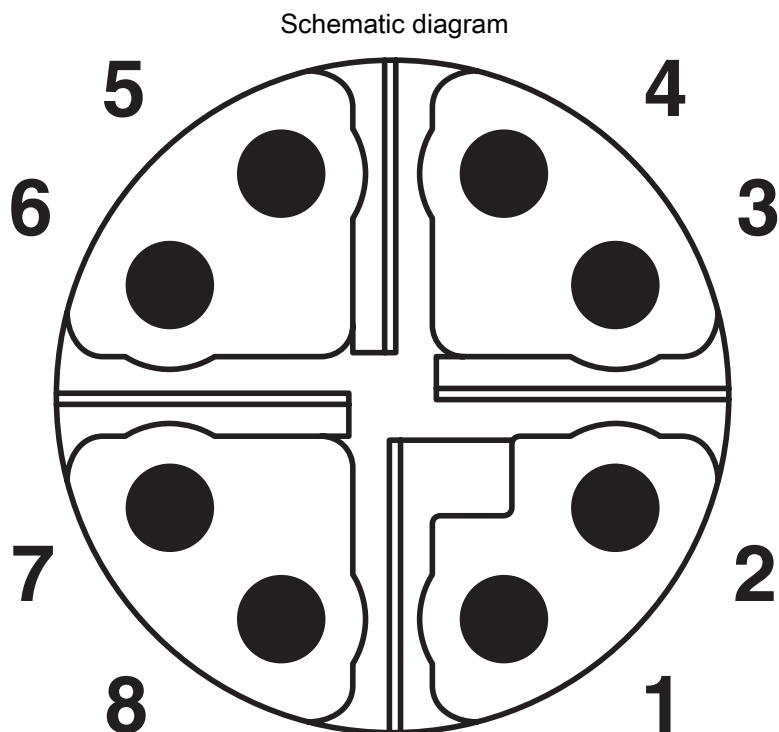
Functional drawing



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Pin assignment M12 plug, 8-pos., view plug side

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1411044>



UL Listed

Approval ID: E335024-20120831



cUL Listed

Approval ID: E335024-20120831

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 27440116 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | 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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|--------------|
| CO2e kg | 1.07 kg CO2e |
|---------|--------------|

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