

SACC-M 8FS-3PCON CX - Connector



1404601

<https://www.phoenixcontact.com/us/products/1404601>

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Sensor/actuator connector, female, straight, 3-pos., M8, Piercecon®, metal knurl, cable diameter max. 5 mm

Your advantages

- Safe use in the field, thanks to a high degree of protection
- Piercecon® connection: maximum contact density in a connector that can be assembled

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1404601 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Note | Made to order (non-returnable) |
| Product key | AF2BCA |
| GTIN | 4046356703260 |
| Weight per piece (including packing) | 23.18 g |
| Weight per piece (excluding packing) | 19.4 g |
| 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. |
|---------------|---|

Product properties

| | |
|----------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Number of positions | 3 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |
| Cable outlet | straight |

Insulation characteristics

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

Dimensions

External dimensions

| | |
|------------------|---------------|
| Outside diameter | 3 mm ... 5 mm |
|------------------|---------------|

Material specifications

| | |
|--|----------------------|
| Flammability rating according to UL 94 | V0 |
| Seal material | NBR |
| Material of grip body | PA 6.6 |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 6.6 |
| Material for screw connection | Brass, nickel-plated |

Connection data

Conductor connection

| | |
|------------------------------|---|
| Connection method | Piercecon® fast connection |
| Connection cross section | 0.14 mm ² ... 0.38 mm ² |
| Connection cross section AWG | 22 ... 26 |
| Tightening torque | 0.5 Nm (Pressure nut with coupling sleeve) |
| | 0.8 Nm (Connector with coupling sleeve) |
| | 0.2 Nm (M8 knurl) |

Electrical properties

| | |
|--------------------|--------|
| Contact resistance | ≤ 3 mΩ |
|--------------------|--------|

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| | |
|--------------------------------|----------|
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U _N | 60 V |
| Nominal current I _N | 4 A |

Mechanical properties

Mechanical data

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

Connector

Connection 1

| | |
|-------------------|----------|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | M8 |
| Coding | A |

Environmental and real-life conditions

Ambient conditions

| | |
|---|----------------------------------|
| Degree of protection | IP68 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket) |

Standards and regulations

M8

| | |
|--------------------------|-----------------|
| Standard designation | M8 connector |
| Standards/specifications | IEC 61076-2-104 |

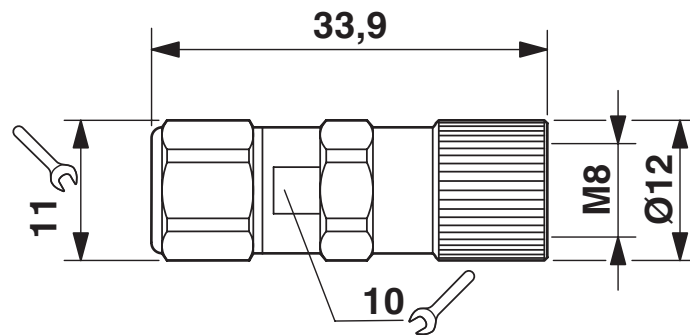
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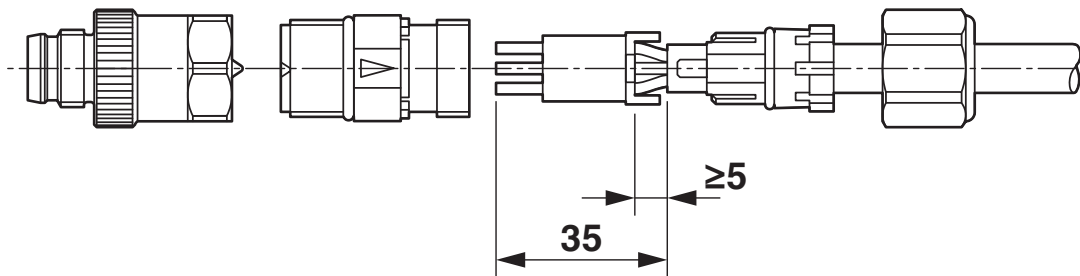
Drawings

Dimensional drawing



Socket M8 x 1, straight

Functional drawing



a = cut flush

b = coding

When assembled, the coding marks must line up.

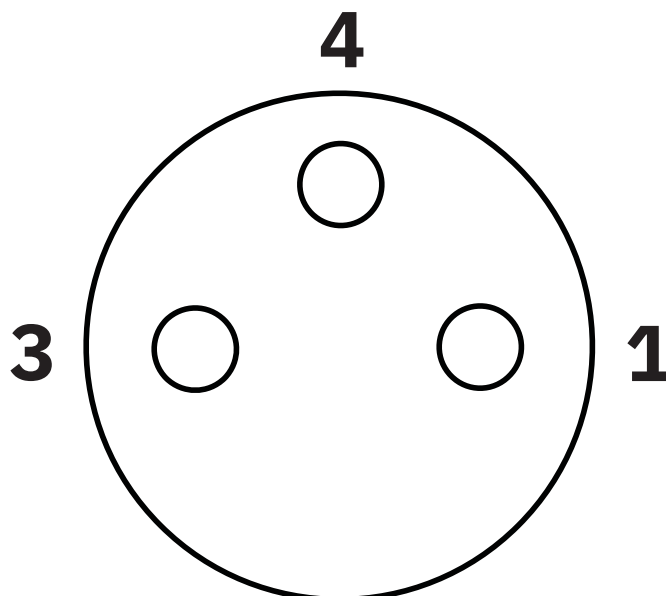
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Schematic diagram



Pin assignment M8 socket, 3-pos., view female side

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com