



Automatización Eléctrica
Especialistas en Automatización

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Bus system connector - SACC-M12FRD-4Q SH - 1553637

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Bus system connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Socket angled M12, D-coded, Insulation displacement connection, Knurl material: Nickel-plated brass, External cable diameter 4 mm ... 8 mm

Why buy this product

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

Ethernet

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 STK |
| GTIN |  4 046356 158800 |

Technical data

Dimensions

| | |
|--------------------------------|---------------|
| External diameter | 4 mm ... 8 mm |
| Stripping length of the sheath | 35 mm |

Ambient conditions

| | |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Degree of protection | IP67 |

General

| | |
|-----------------------|-------------------------------------|
| Rated current at 40°C | 1.75 A |
| Rated voltage | 60 V DC |
| | 48 V AC |
| Number of positions | 4 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | D - data |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Signal type/category | PROFINET CAT5 (IEC 11801), 100 Mbps |

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Technical data

General

| | |
|---|---|
| Status display | No |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Connection method | Insulation displacement connection |
| Conductor cross section | 0.14 mm² ... 0.34 mm² |
| Conductor cross section AWG | 26 ... 22 |
| Wire diameter incl. insulation | ≤ 1.6 mm |
| Frequency of connections between conductors of the same cross section | ≤ 10 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 knurl) |
| | 0.8 Nm (Connector with coupling sleeve) |
| | 3 Nm (Pressure nut with coupling sleeve) |
| Assembly instructions | The connector pin assignment can be rotated 45° to the cable outlet |

Material

| | |
|--|------------------------------|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 66 |
| Material of grip body | Zinc die-cast, nickel-plated |
| Material, knurls | Nickel-plated brass |
| Sealing material | Neoprene |

Standards and Regulations

| | |
|--|-----------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Flammability rating according to UL 94 | V0 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250313 |
| eCl@ss 4.1 | 27250313 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27440104 |
| eCl@ss 9.0 | 27440102 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC002062 |
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002062 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approvals submitted

Approval details

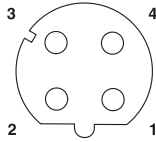
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Drawings

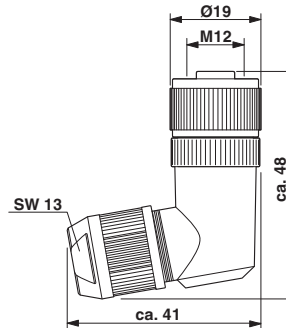
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Schematic diagram



Pin assignment M12 socket, 4-pos., D-coded,
female side

Dimensional drawing



M12 x 1 socket, angled

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