

SAC-M12MSD/ 0,6-93E/M12FSD - Network cable



1405786

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), M12 plug to M12 socket, line, length: 0.6 m

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1405786 |
| Packing unit | 1 pc |
| Minimum order quantity | 25 pc |
| Product key | AF1CJI |
| GTIN | 4046356757539 |
| Weight per piece (including packing) | 65.1 g |
| Weight per piece (excluding packing) | 57.65 g |
| Country of origin | PL |

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Technical data

Product properties

| | |
|----------------------|-------------------------|
| Product type | Data cable preassembled |
| Sensor type | Ethernet |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | yes |

Insulation characteristics

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

Interfaces

| | |
|----------------------|--------------------------------|
| Bus system | Ethernet |
| Signal type/category | Ethernet CAT5 (IEC 11801:2002) |

Electrical properties

| | |
|---|-----------------------|
| Nominal voltage U_N | 48 V AC |
| | 60 V DC |
| Nominal current I_N | 4 A |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

Mechanical properties

Mechanical data

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

Material specifications

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Connector

Connection 1

| | |
|----------|---|
| Type | Plug straight M12 |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | TPU GF (Contact carrier) |
| | TPU, hardly inflammable, self-extinguishing (Grip body) |
| | Zinc die-cast, nickel-plated (Screw connection) |

Connection 2

| | |
|----------|--------------------------|
| Type | Socket straight M12 |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | TPU GF (Contact carrier) |

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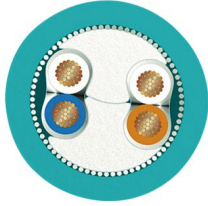
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| | |
|--|---|
| | TPU, hardly inflammable, self-extinguishing (Grip body) |
| | Zinc die-cast, nickel-plated (Screw connection) |

Cable/line

| | |
|--------------|-------|
| Cable length | 0.6 m |
|--------------|-------|

Ethernet [93E]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Cable weight | 43 kg/km |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | Ethernet [93E] |
| Conductor structure | 2x2xAWG26/7, SF/UTP |
| Signal runtime | 4.3 ns/m |
| Signal speed | 0.77 c |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross-section | 2x 2x 0.14 mm ² |
| Wire diameter incl. insulation | 1 mm -0.2 mm |
| External cable diameter | 5.75 mm ±0.15 mm |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | Foam-Skin PE |
| Single wire, color | white/orange-orange, white/green-green |
| Twisted pairs | 2 cores to the pair |
| Overall twist | Two pairs with two fillers to the core |
| Optical shield covering | 85 % |
| Max. conductor resistance | ≤ 284 Ω/km |
| Insulation resistance | ≥ 5 GΩ*km |
| Coupling resistance | ≤ 5.00 mΩ/m (at 20 MHz) |
| Wave impedance | 100 Ω ±15 % (at 1 ... 100 MHz) |
| Cable capacity | nom. 48 nF/km (At 800 Hz) |
| Nominal voltage, cable | 50 V _{rms} 125 V (Peak value, not for high-power applications) |
| Test voltage Core/Core | 1000 V _{rms} |
| Test voltage Core/Shield | 500.00 V _{rms} |

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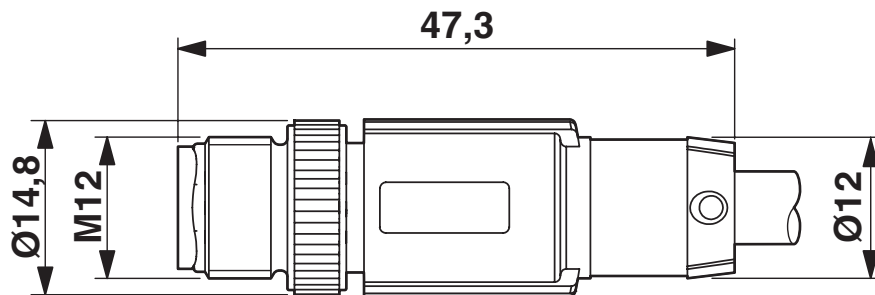
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| | |
|---|--|
| Smallest bending radius, fixed installation | 30 mm (cable, fixed installation) |
| Smallest bending radius, movable installation | 78 mm (Cable, flexible installation) |
| Tensile strength | ≤ 50 N (temporary) |
| | ≤ 10 N (Permanent) |
| Near end crosstalk attenuation (NEXT) | 66 dB/m (with 1 MHz) |
| | 57 dB/m (at 4 MHz) |
| | 52 dB/m (at 10 MHz) |
| | 50 dB/m (at 16 MHz) |
| | 47 dB/m (at 20 MHz) |
| | 45 dB/m (at 31.25 MHz) |
| | 40 dB/m (at 62.5 MHz) |
| | 36 dB/m (at 100 MHz) |
| Crosstalk attenuation (ACR) | 6.57 dB/m (with 1 MHz) |
| | 5.64 dB/m (at 4 MHz) |
| | 5.12 dB/m (at 10 MHz) |
| | 4.89 dB/m (at 16 MHz) |
| | 4.57 dB/m (at 20 MHz) |
| | 4.34 dB/m (at 31.25 MHz) |
| | 3.77 dB/m (at 62.5 MHz) |
| | 3.31 dB/m (at 100 MHz) |
| Shield attenuation | 0.028 dB/m (with 1 MHz) |
| | 0.06 dB/m (at 4 MHz) |
| | 0.085 dB/m (at 10 MHz) |
| | 0.115 dB/m (at 16 MHz) |
| | 0.128 dB/m (at 20 MHz) |
| | 0.162 dB/m (at 31.25 MHz) |
| | 0.23 dB/m (at 62.5 MHz) |
| | 0.29 dB/m (at 100 MHz) |
| Flame resistance | according to VDE 0482 Part 265-2-1 |
| | according to IEC 332-1 |
| Ambient temperature (operation) | -30 °C ... 80 °C (cable, fixed installation) |
| Ambient temperature (installation) | -5 °C ... 60 °C |

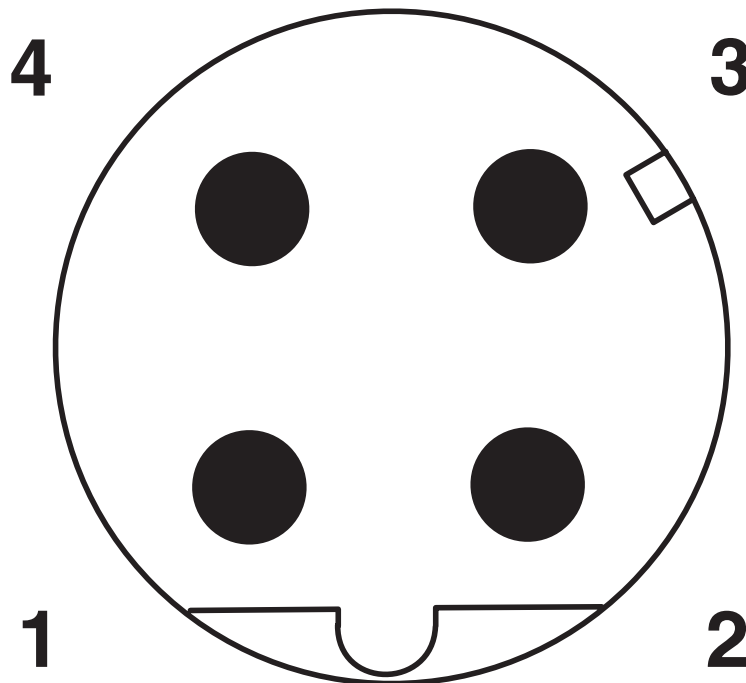
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

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