

Bus system cable - SAC-4P- 5,0-990/M12FS - 1558373

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Bus system cable, CC link (10 Mbps), 4-position, PVC, red, shielded, free cable end, on Socket straight M12, coding: A, cable length: 5 m



CC-link

Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| GTIN |  4 046356 293709 |
| GTIN | 4046356293709 |

Technical data

Dimensions

| | |
|--|-------|
| Length of cable | 5 m |
| Stripping length of the free conductor end | 50 mm |

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |

General

| | |
|-----------------------|------------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 48 V AC |
| | 60 V DC |
| Number of positions | 4 |
| Color handle area | black |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Signal type/category | CC link, 10 Mbps |
| Status display | No |

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Technical data

General

| | |
|-----------------------------|------------------------|
| Overvoltage category | II |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 connector) |

Material

| | |
|--|---|
| Flammability rating according to UL 94 | HB |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |

Pin assignment

| | |
|---|--------------------------|
| Contact Color (signal designation) Contact (optional) | 1 (Socket) SR (shield) |
| | 2 (Socket) WH (DB) |
| | 3 (Socket) YE (DG) |
| | 4 (Socket) BU (DA) |

Standards and Regulations

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

Cable

| | |
|---|--|
| Cable type | CC-Link |
| Cable type (abbreviation) | 990 |
| Cable structure | 3xAWG20/7 + 1xAWG22/19 (filler litz wire) |
| Conductor cross section | 0.5 mm ² |
| AWG signal line | 20 |
| Conductor structure signal line | 7x 0.28 mm |
| Thickness, insulation | 0.89 mm (Outer cable sheath) |
| Wire colors | white, yellow, blue |
| Shielding | Plastic-coated aluminum foil, tinned copper braided shield |
| Optical shield covering | 78 % |
| External sheath, color | red |
| External cable diameter D | 7.7 mm |
| Smallest bending radius, fixed installation | 77 mm |
| Cable weight | 78.8 kg/km |
| Outer sheath, material | PVC |
| Material conductor insulation | foamed PE, with high density |
| Conductor material | Bare Cu litz wires |
| Conductor resistance | 31.2 Ω/km |
| Working capacitance | 61 pF |

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Technical data

Cable

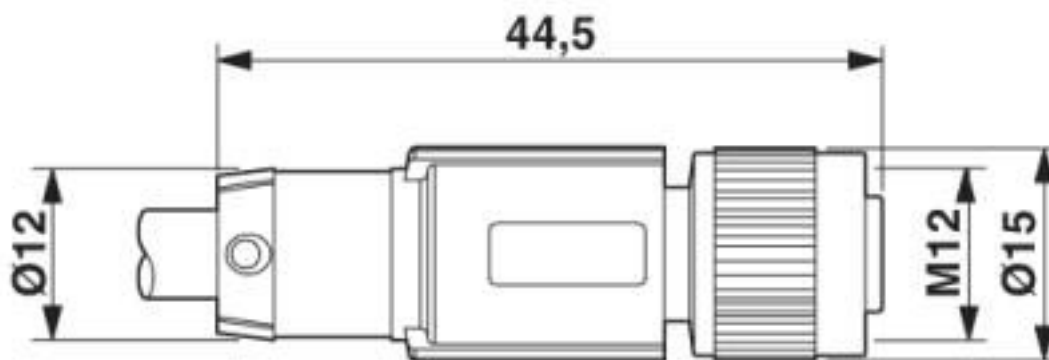
| | |
|---------------------------------|--|
| Wave impedance | 110 Ω |
| Nominal voltage, cable | 300 V |
| Ambient temperature (operation) | -30 °C ... 60 °C (cable, fixed installation) |
| | -5 °C ... 60 °C (cable, flexible installation) |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

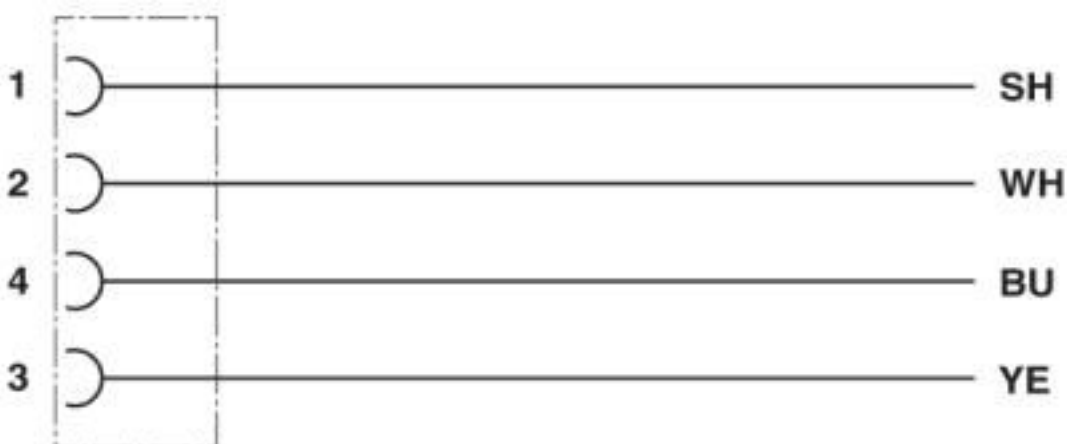
Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

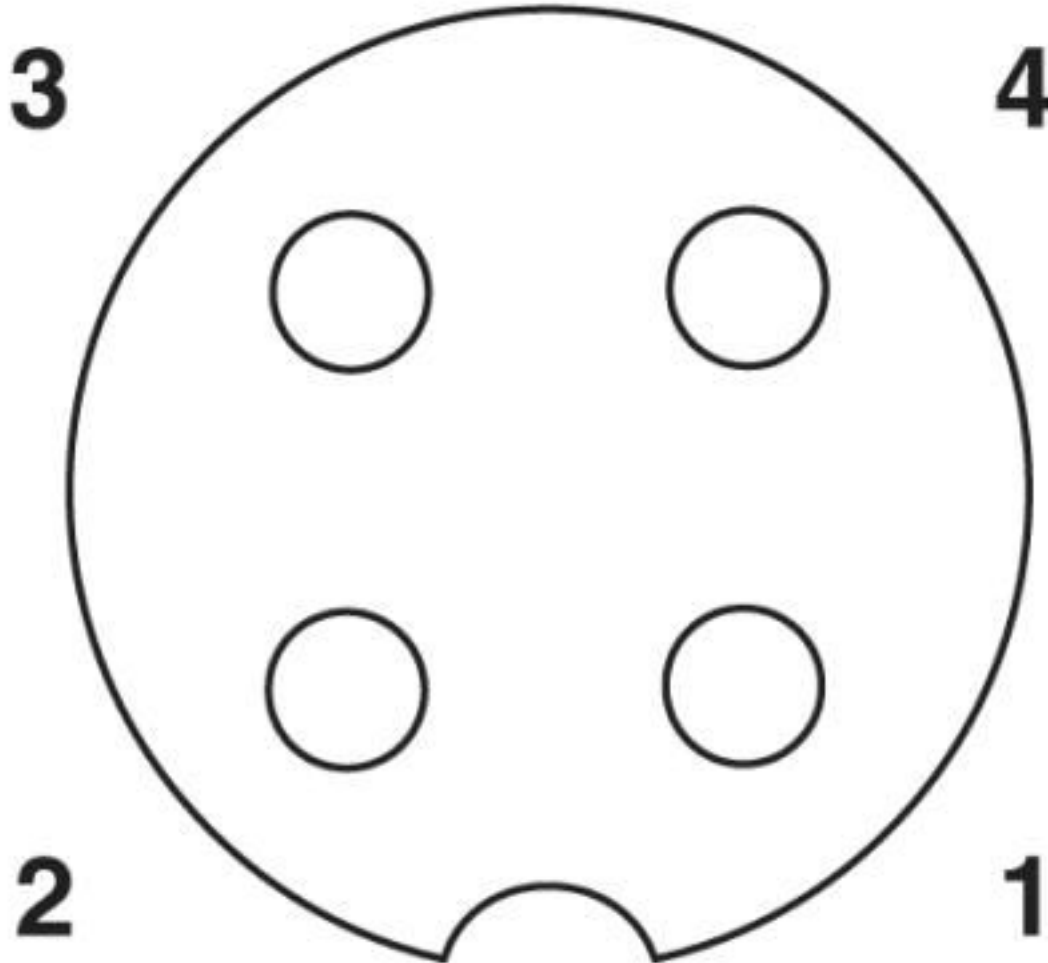
Circuit diagram



Contact assignment of the M12 socket

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Schematic diagram



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

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27060308 |
| eCl@ss 4.0 | 27060300 |
| eCl@ss 4.1 | 27060300 |
| eCl@ss 5.0 | 27061800 |
| eCl@ss 5.1 | 27061800 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060308 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC002599 |
| ETIM 6.0 | EC001262 |
| ETIM 7.0 | EC001262 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |
| UNSPSC 18.0 | 26121604 |
| UNSPSC 19.0 | 26121604 |
| UNSPSC 20.0 | 26121604 |
| UNSPSC 21.0 | 26121604 |

Approvals

Approvals

Approvals

EAC-RoHS / EAC

Ex Approvals

Approval details

| | | |
|----------|---|--------------------------|
| EAC-RoHS |  | RU D- DE.HB35.B.00387 |
|----------|---|--------------------------|

| | | |
|-----|---|--------------------------|
| EAC |  | RU C- DE.BL08.B.00286 |
|-----|---|--------------------------|

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