

## Bus system cable - SAC-4P-M12MS/ 2,0-990/M12FS - 1558438

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Bus system cable, CC link, 4-position, PVC, red, shielded, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 2 m



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 1       |
| Minimum order quantity               | 50 1      |
| Weight per Piece (excluding packing) | 180.0 GRM |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 2 m |
|-----------------|-----|

#### 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         | 250 V        |
| Number of positions   | 4            |
| Contact resistance    | ≤ 5 mΩ       |
| Insulation resistance | ≥ 100 MΩ     |
| Coding                | A - standard |
| Signal type/category  | CC link      |
| Status display        | No           |

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### Technical data

#### General

|                             |                        |
|-----------------------------|------------------------|
| Surge voltage category      | II                     |
| Pollution degree            | 3                      |
| Insertion/withdrawal cycles | ≥ 100                  |
| Torque                      | 0.4 Nm (M12 connector) |

#### Material

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| Inflammability class 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

|                                                      |                                     |
|------------------------------------------------------|-------------------------------------|
| Position = wire color (signal) = position (optional) | 1 (Plug) = SR (shield) = 1 (Socket) |
|                                                      | 2 (Plug) = WH (DB) = 2 (Socket)     |
|                                                      | 3 (Plug) = YE (DG) = 3 (Socket)     |
|                                                      | 4 (Plug) = BU (DA) = 4 (Socket)     |

#### Cable

|                                             |                                                            |
|---------------------------------------------|------------------------------------------------------------|
| Cable type                                  | CC-Link                                                    |
| Cable type (abbreviation)                   | 990                                                        |
| Conductor cross section                     | 0.5 mm <sup>2</sup>                                        |
| 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                     | 7.70 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) |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

### UNSPSC

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

## Approvals

### Approvals

Approvals

GOST

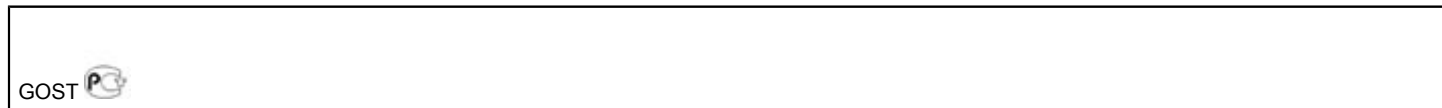
Ex Approvals

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## Approvals

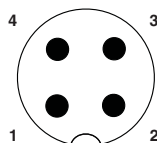
Approvals submitted

## Approval details



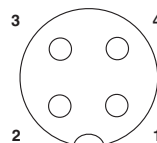
## Drawings

Schematic diagram



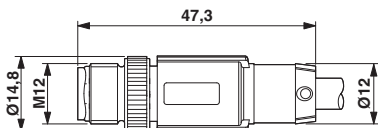
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Schematic diagram



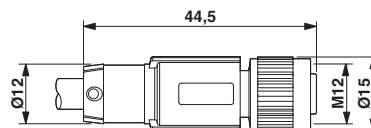
Pin assignment M12 socket, 4-pos., A-coded, view female side

Dimensioned drawing



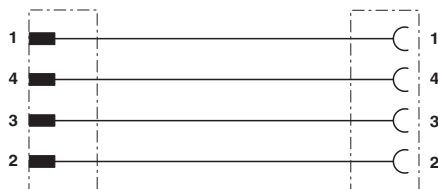
Plug, M12 x 1, straight, shielded

Dimensioned drawing



M12 x 1 socket, straight, shielded

Circuit diagram



Contact assignment of the M12 plug and the M12 socket



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