

## Bus system cable - SAC-5P-M12MSB/ 4,6-900/M12FSB - 1536638

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Bus system cable, INTERBUS, INTERBUS, 5-position, PUR halogen-free, Green RAL 6017, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 4.6 m



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 1       |
| Minimum order quantity               | 50 1      |
| Weight per Piece (excluding packing) | 360.2 GRM |
| Custom tariff number                 | 85445190  |
| Country of origin                    | Poland    |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 4.6 m |
|-----------------|-------|

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |
|                      | IP68 |

#### General

|                       |             |
|-----------------------|-------------|
| Rated current at 40°C | 4 A         |
| Rated voltage         | 250 V       |
| Number of positions   | 5           |
| Contact resistance    | ≤ 5 mΩ      |
| Insulation resistance | ≥ 100 MΩ    |
| Coding                | B - inverse |
| Signal type/category  | INTERBUS    |

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### Technical data

#### General

|                             |       |
|-----------------------------|-------|
| Status display              | No    |
| Surge voltage category      | II    |
| Pollution degree            | 3     |
| Insertion/withdrawal cycles | ≥ 100 |

#### Material

|   |   |
|---|---|
| Inflammability class according to UL 94 | V0  |
| Contact material                        | CuSn  |
| Contact surface material                | Ni/Au                                       |
| Contact carrier material                | PA 66                                       |
| Material of grip body                   | TPU, hardly inflammable, self-extinguishing |
| Material, knurls                        | Zinc die-cast, nickel-plated                |
| Sealing material                        | NBR   |

#### Cable

|   |                                      |
|---|--------------------------------------|
| Cable type                                    | INTERBUS                             |
| Conductor cross section                       | 0.25 mm <sup>2</sup>                 |
| AWG signal line                               | 24                                   |
| Conductor structure signal line               | 32x 0.10 mm                          |
| Wire colors                                   | Green-yellow, white-brown, gray-pink |
| Twisted pairs                                 | 2 cores to the pair                  |
| Shielding                                     | Braided copper wires                 |
| External sheath, color                        | Green RAL 6017                       |
| External cable diameter                       | 8.00 mm                              |
| Smallest bending radius, fixed installation   | 60 mm                                |
| Smallest bending radius, movable installation | 120 mm                               |
| Outer sheath, material                        | PUR                                  |
| Conductor material                            | Bare Cu litz wires                   |
| Insulation resistance                         | > 5 GΩ*km                            |
| Conductor resistance                          | ≤ 159.8 mΩ/m                         |
| Working capacitance                           | 60 nF (At 800 Hz)                    |
| Signal speed                                  | 0.66 c                               |
| Nominal voltage, cable                        | 250 V                                |
| Test voltage Core/Core                        | 1500 V                               |
| Test voltage Core/Shield                      | 1000 V                               |

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## 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 |

ETIM

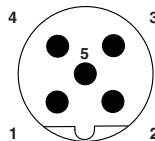
|          |          |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

UNSPSC

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

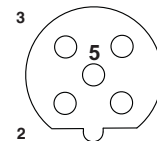
## Drawings

Schematic diagram



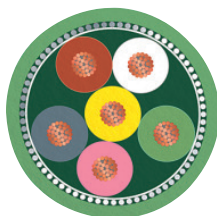
Pin assignment M12 male connector, 5-pos., B-coded, male side

Schematic diagram



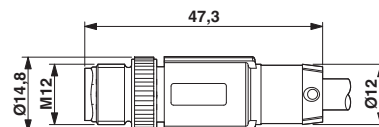
Pin assignment M12 socket, 5-pos., B-coded, female side

Cable cross section



INTERBUS [900]

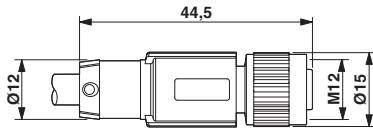
Dimensioned drawing



Plug, M12 x 1, straight, shielded

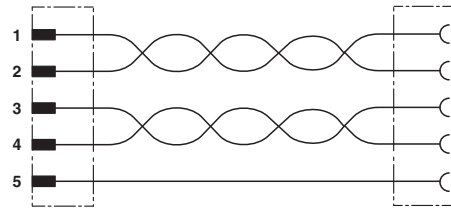
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Dimensioned drawing



M12 x 1 socket, straight, shielded

Circuit diagram



Contact assignment of the M12 connector and the M12 socket