

## Bus system cable - SAC-5P-15,0-920/M12FS - 1507502

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Bus system cable, CANopen<sup>®</sup>, DeviceNet<sup>™</sup>, CANopen<sup>®</sup>/DeviceNet<sup>™</sup>, 5-position, PUR halogen-free, Violet, RAL 4001, shielded, Free cable end, on Socket straight M12, A-coded, Cable length: 15 m



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 1       |
| Weight per Piece (excluding packing) | 888.0 GRM |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Poland    |

### Technical data

#### Dimensions

|                                            |       |
|--------------------------------------------|-------|
| Length of cable                            | 15 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         | 60 V                   |
| Number of positions   | 5                      |
| Contact resistance    | ≤ 5 mΩ                 |
| Insulation resistance | ≥ 100 MΩ               |
| Coding                | A - standard           |
| Signal type/category  | CANopen <sup>®</sup>   |
|                       | DeviceNet <sup>™</sup> |

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## Technical data

### General

|                             |                        |
|-----------------------------|------------------------|
| Status display              | No                     |
| 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                        | CuSn                                        |
| 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 (Socket) = SR (shield) |
|                                                      | 2 (Socket) = RD (V+)     |
|                                                      | 3 (Socket) = BK (V-)     |
|                                                      | 4 (Socket) = WH (CAN_H)  |
|                                                      | 5 (Socket) = BU (CAN_L)  |

### Cable

|                                     |                                                       |
|-------------------------------------|-------------------------------------------------------|
| Cable type                          | CAN Bus/DeviceNet                                     |
| Cable type (abbreviation)           | 920                                                   |
| Conductor cross section             | 2x 0.25 mm <sup>2</sup> (signal line)                 |
|                                     | 2x 0.34 mm <sup>2</sup> (Power supply)                |
|                                     | 1x 0.34 mm <sup>2</sup> (Drain wire)                  |
| AWG signal line                     | 24                                                    |
| AWG power supply                    | 22                                                    |
| Conductor structure signal line     | 19x 0.13 mm                                           |
| Conductor structure, voltage supply | 19x 0.15 mm                                           |
| Core diameter including insulation  | 1.95 mm ±0.05 mm (signal line)                        |
|                                     | 1.4 mm ±0.05 mm (Power supply)                        |
| Wire colors                         | Red-black, blue-white                                 |
| Twisted pairs                       | 2 cores to the pair                                   |
| Type of pair shielding              | Aluminum-lined polyester foil                         |
| Overall twist                       | 2 pairs around a drain wire in the center to the core |
| Shielding                           | Tinned copper braided shield                          |

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### Technical data

#### Cable

|                                               |                                                 |
|-----------------------------------------------|-------------------------------------------------|
| Optical shield covering                       | 80 %                                            |
| External sheath, color                        | Violet, RAL 4001                                |
| External cable diameter D                     | 6.7 mm ±0.3 mm                                  |
| Smallest bending radius, fixed installation   | 67 mm                                           |
| Smallest bending radius, movable installation | 67 mm                                           |
| Number of bending cycles                      | 2000000                                         |
| Bending radius                                | 67 mm                                           |
| Traversing path                               | 4.5 m                                           |
| Traversing rate                               | 3 m/s                                           |
| Acceleration                                  | 3 m/s <sup>2</sup>                              |
| Outer sheath, material                        | PUR                                             |
| Material conductor insulation                 | Foamed PE (signal line)                         |
|                                               | PE (Power supply)                               |
| Conductor material                            | Tin-plated Cu litz wires                        |
| Insulation resistance                         | ≥ 5 GΩ*km (signal line)                         |
|                                               | ≥ 5 GΩ*km (Power supply)                        |
| Working capacitance                           | nom. 40 nF (signal line)                        |
| Wave impedance                                | 120 Ω ± 12 Ω (with 1 MHz)                       |
| Nominal voltage, cable                        | max. 300 V                                      |
| Test voltage, cable                           | 2000 V (50 Hz, 1 min.)                          |
| Flame resistance                              | UL 1581, Sec. 1060 (FT-1)                       |
|                                               | IEC 60332-1                                     |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)    |
|                                               | -20 °C ... 70 °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 |

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### Classifications

#### 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 |

### Approvals

#### Approvals

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#### Approvals

#### GOST / GOST

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

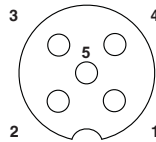
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|------------------------------------------------------------------------------------------|
| GOST  |
|------------------------------------------------------------------------------------------|

|                                                                                          |
|------------------------------------------------------------------------------------------|
| GOST  |
|------------------------------------------------------------------------------------------|

### Drawings

## Bus system cable - SAC-5P-15,0-920/M12FS - 1507502

Schematic diagram



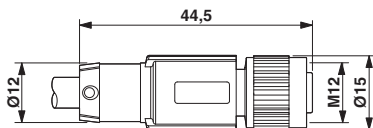
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Cable cross section



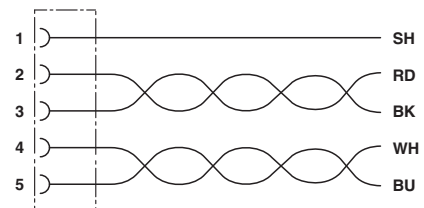
CAN Bus/DeviceNet [920]

Dimensioned drawing



M12 x 1 socket, straight, shielded

Circuit diagram



Contact assignment of the M12 socket

单击下面可查看定价，库存，交付和生命周期等信息

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