

## Bus system cable - SAC-5P-M12FS/ 0,2-920/M12FS - 1533767

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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, Socket straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 0.2 m



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 1       |
| Minimum order quantity               | 100 1     |
| Weight per Piece (excluding packing) | 48.17 GRM |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Poland    |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 0.2 m |
|-----------------|-------|

#### Ambient conditions

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

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

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### Technical data

#### 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                                         |

#### Cable

|                                               |                                                       |
|-----------------------------------------------|-------------------------------------------------------|
| Cable type                                    | CAN Bus/DeviceNet                                     |
| Conductor cross section                       | 0.2 mm <sup>2</sup> (signal line)                     |
|                                               | 0.32 mm <sup>2</sup> (Power supply)                   |
|                                               | 0.32 mm <sup>2</sup> (Drain wire)                     |
| AWG signal line                               | 24                                                    |
| AWG power supply                              | 22                                                    |
| Conductor structure signal line               | 19x 0.12 mm                                           |
| Conductor structure, voltage supply           | 19x 0.15 mm                                           |
| Core diameter including insulation            | 2.05 mm ±0.1 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                          |
| Optical shield covering                       | 70 %                                                  |
| External sheath, color                        | Violet, RAL 4001                                      |
| External cable diameter                       | 6.70 mm                                               |
| Smallest bending radius, fixed installation   | 67 mm                                                 |
| Smallest bending radius, movable installation | 67 mm                                                 |
| Number of bending cycles                      | 5000000                                               |
| Bending radius                                | 67 mm                                                 |
| Traversing path                               | 10 m                                                  |
| Traversing rate                               | 3 m/s                                                 |
| Acceleration                                  | 7 m/s <sup>2</sup>                                    |
| Outer sheath, material                        | PUR                                                   |
| Material conductor insulation                 | PE (Power supply)                                     |
|                                               | Foamed PE (signal line)                               |
| Conductor material                            | Tin-plated Cu litz wires                              |

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### Technical data

#### Cable

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Insulation resistance  | $\geq 5 \text{ G}\Omega \cdot \text{km}$ (signal line)    |
|                        | $\geq 100 \text{ M}\Omega \cdot \text{km}$ (Power supply) |
| Conductor resistance   | $\leq 78.4 \text{ }\Omega/\text{km}$ (signal line)        |
|                        | $\geq 51.6 \text{ }\Omega/\text{km}$ (Power supply)       |
| Working capacitance    | 39.3 pF (Signal line, Core-Core)                          |
|                        | 78.7 pF (Signal line, Core-Shield)                        |
| Nominal voltage, cable | 300 V (Power supply)                                      |
|                        | 30 V (signal line)                                        |
| Test voltage, cable    | 1500 V (signal line)                                      |
|                        | 2000 V (Power supply)                                     |

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

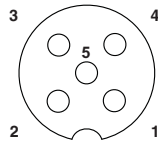
#### UNSPSC

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

### Drawings

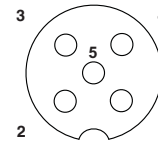
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Schematic diagram



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

Schematic diagram



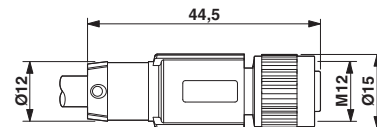
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Cable cross section



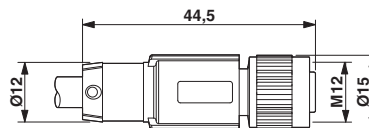
CAN Bus/DeviceNet [920]

Dimensioned drawing



M12 x 1 socket, straight, shielded

Dimensioned drawing



M12 x 1 socket, straight, shielded

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