

# SAC-5P-M12MS/10,0-927/M12FS VA - Sensor/actuator cable



1402950  
<https://www.phoenixcontact.com/pc/products/1402950>

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5-pos. cable, black PVC, shielded, shielded plug, straight M12, A-coded, on shielded socket, straight M12, A-coded with VA knurl, length: 10 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1402950                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Product key                          | BF1CDD                         |
| GTIN                                 | 4046356637688                  |
| Weight per piece (including packing) | 955.2 g                        |
| Weight per piece (excluding packing) | 878.3 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable preassembled |
| Number of positions | 5                       |

### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 48 V AC |
|                       | 60 V DC |

### Cable/line

|              |      |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

#### CANopen®/DeviceNet™, PVC, black [927]

|                                 |                                                                             |
|---------------------------------|-----------------------------------------------------------------------------|
| Cable weight                    | 83 kg/km                                                                    |
| UL AWM Style                    | 2464 (80°C/300 V)                                                           |
| Number of positions             | 4                                                                           |
| Shielded                        | yes                                                                         |
| Cable type                      | CANopen®/DeviceNet™, PVC, black [927]                                       |
| Signal runtime                  | 4.46 ns/m                                                                   |
| Conductor structure signal line | 44x 0.10 mm                                                                 |
| AWG signal line                 | 22                                                                          |
| Conductor cross section         | 2x 0.34 mm <sup>2</sup> (Signal line)                                       |
|                                 | 2x 0.34 mm <sup>2</sup> (Power supply)                                      |
|                                 | 1x 0.38 mm <sup>2</sup> (Drain wire)                                        |
| Wire diameter incl. insulation  | 2.55 mm (Signal line)                                                       |
|                                 | 1.37 mm (Power supply)                                                      |
| External cable diameter         | 8.30 mm ±0.3 mm                                                             |
| Outer sheath, material          | PVC                                                                         |
| External sheath, color          | black                                                                       |
| Conductor material              | Tin-plated Cu litz wires                                                    |
| Material wire insulation        | Foamed PP (Signal line)                                                     |
|                                 | PVC (Power supply)                                                          |
| Single wire, color              | red-black, blue-white                                                       |
| Thickness, insulation           | ≥ 0.30 mm (Wire insulation power supply)                                    |
| Thickness, outer sheath         | ≥ 1.00 mm                                                                   |
| Twisted pairs                   | 2 cores to the pair                                                         |
| Type of pair shielding          | Aluminum-lined polyester foil                                               |
| Overall twist                   | 2 pairs with filler elements, around a drain wire in the center to the core |
| Optical shield covering         | 85 %                                                                        |
| Max. conductor resistance       | ≤ 56 Ω/km                                                                   |
| Insulation resistance           | ≥ 20 MΩ*km                                                                  |
| Wave impedance                  | 120 Ω ±12 Ω (f = 1 MHz)                                                     |

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|                                               |                                          |
|-----------------------------------------------|------------------------------------------|
| Working capacitance                           | approx. 39.8 nF (Signal line, line-line) |
|                                               | ≤ 4000 pF (Signal line, line-shield)     |
| Nominal voltage, cable                        | ≤ 300 V                                  |
| Test voltage                                  | 2000 V (50 Hz, 1 min.)                   |
| Minimum bending radius, fixed installation    | 4 x D                                    |
| Minimum bending radius, flexible installation | 8 x D                                    |
| Smallest bending radius, fixed installation   | 34 mm                                    |
| Smallest bending radius, movable installation | 67 mm                                    |
| Flame resistance                              | in acc. with UL 1581, section 1061       |
| Ambient temperature (operation)               | -30 °C ... 80 °C                         |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060307 |
| ECLASS-12.0 | 27060307 |
| ECLASS-13.0 | 27060307 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC001855 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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