

# SAC-5P-M12MS/ 3,0-927/M12FS VA - Sensor/actuator cable



1402948

<https://www.phoenixcontact.com/us/products/1402948>

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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: 3 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1402948                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF04                           |
| Product key                          | AF1CDD                         |
| GTIN                                 | 4046356637664                  |
| Weight per piece (including packing) | 303.2 g                        |
| Weight per piece (excluding packing) | 285.7 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

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 structure, voltage supply | 44x 0.10 mm   |
| AWG power supply                    | 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  |

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|   |  |
|---|--|
| Wave impedance                                | 120 $\Omega$ $\pm$ 12 $\Omega$ (f = 1 MHz) |
| Working capacitance                           | approx. 39.8 nF (Signal line, line-line)   |
|   | $\leq$ 4000 pF (Signal line, line-shield)  |
| Nominal voltage, cable                        | $\leq$ 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-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

### 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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