

# SAC-5P-100,0-923 - Cable reel

1400493

<https://www.phoenixcontact.com/in/products/1400493>



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By the meter, Cable reel, CANopen®, DeviceNet™, shielded, PUR halogen-free, silver-grey RAL 7001, 4-wire (2xAWG24/19+2xAWG22/19), color single wire: red-black, blue-white, cable length: 100 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1400493       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | *****         |
| Product key                          | AF1LEA        |
| GTIN                                 | 4046356497626 |
| Weight per piece (including packing) | 5,808.4 g     |
| Weight per piece (excluding packing) | 5,731.5 g     |
| Customs tariff number                | 85444995      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                     |                    |
|---------------------|--------------------|
| Product type        | Cable by the meter |
| Sensor type         | CANopen®           |
| Number of positions | 4                  |

### Interfaces

|                      |            |
|----------------------|------------|
| Signal type/category | CANopen®   |
|                      | DeviceNet™ |

### Cable/line

|              |       |
|--------------|-------|
| Cable length | 100 m |
|--------------|-------|

CANopen®/DeviceNet™, PUR, gray [923]

|                                     |                                                                                      |
|-------------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing                 |  |
| Cable weight                        | 90 kg/km                                                                             |
| UL AWM Style                        | 21198 (80°C/300 V)                                                                   |
| Number of positions                 | 4                                                                                    |
| Shielded                            | yes                                                                                  |
| Cable type                          | CANopen®/DeviceNet™, PUR, gray [923]                                                 |
| Conductor structure                 | 2xAWG24/19+2xAWG22/19                                                                |
| Conductor structure signal line     | 19x 0.13 mm                                                                          |
| AWG signal line                     | 24                                                                                   |
| Conductor structure, voltage supply | 19x 0.15 mm                                                                          |
| AWG power supply                    | 22                                                                                   |
| Conductor cross section             | 2x 0.25 mm² (Data cable)                                                             |
|                                     | 2x 0.34 mm² (Power supply)                                                           |
|                                     | 1x 0.34 mm² (Drain wire)                                                             |
| Wire diameter incl. insulation      | 1.95 mm ±0.05 mm (Data cable)                                                        |
|                                     | 1.4 mm ±0.05 mm (Power supply)                                                       |
| External cable diameter             | 6.70 mm ±0.3 mm                                                                      |
| Outer sheath, material              | PUR                                                                                  |
| External sheath, color              | silver-grey RAL 7001                                                                 |
| Conductor material                  | Tin-plated Cu litz wires                                                             |
| Material wire insulation            | Foamed PE (Data cable)                                                               |
|                                     | PE (Power supply)                                                                    |

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|                                               |                                                                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Single wire, color                            | red-black, blue-white                                                                                                                                                           |
| Twisted pairs                                 | 2 cores to the pair                                                                                                                                                             |
| Type of pair shielding                        | Plastic-coated aluminum foil, aluminum side outside                                                                                                                             |
| Overall twist                                 | 2 pairs around a drain wire in the center to the core                                                                                                                           |
| Optical shield covering                       | 80 %                                                                                                                                                                            |
| Insulation resistance                         | ≥ 5 GΩ*km (Data cable)                                                                                                                                                          |
|                                               | ≥ 5 GΩ*km (Power supply)                                                                                                                                                        |
| Loop resistance                               | ≤ 181.80 Ω/km (Data cable)                                                                                                                                                      |
|                                               | ≤ 114.80 Ω/km (Power supply)                                                                                                                                                    |
| Wave impedance                                | 120 Ω ±10 % (with 1 MHz)                                                                                                                                                        |
| Cable capacity                                | nom. 40 nF/km (Data cable)                                                                                                                                                      |
| Nominal voltage, cable                        | ≤ 300 V (Peak value, not for high-power applications)                                                                                                                           |
| Test voltage Core/Core                        | 2000 V (50 Hz, 1 min.)                                                                                                                                                          |
| Test voltage Core/Shield                      | 2000.00 V (50 Hz, 1 min.)                                                                                                                                                       |
| Minimum bending radius, fixed installation    | 5 x D                                                                                                                                                                           |
| Minimum bending radius, flexible installation | 10 x D                                                                                                                                                                          |
| Smallest bending radius, fixed installation   | 34 mm                                                                                                                                                                           |
| Smallest bending radius, movable installation | 67 mm                                                                                                                                                                           |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000000, Bending radius: 70 mm, Bending radius: 10 x D, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s², Ambient temperature: ≤ 70 °C |
| Shield attenuation                            | ≤ 22.9 dB/km (with 1 MHz)                                                                                                                                                       |
|                                               | ≤ 16.4 dB/km (At 500 kHz)                                                                                                                                                       |
|                                               | ≤ 9.5 dB/km (At 125 kHz)                                                                                                                                                        |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815                                                                                                                                        |
|                                               | according to IEC 60754-1                                                                                                                                                        |
| Flame resistance                              | UL 1581, Sec. 1060 (FT-1)                                                                                                                                                       |
|                                               | IEC 60332-1                                                                                                                                                                     |
| Other resistance                              | Low adhesion                                                                                                                                                                    |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)                                                                                                                                    |
|                                               | -20 °C ... 80 °C (Cable, flexible installation)                                                                                                                                 |
|                                               | ≤ 70 °C (cable, drag chain applications)                                                                                                                                        |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
| Ambient temperature (operation)         | -40 °C ... 80 °C (cable, fixed installation)    |
|                                         | -20 °C ... 70 °C (Cable, flexible installation) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C                                |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27061801 |
| ECLASS-12.0 | 27061801 |
| ECLASS-13.0 | 27061801 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003249 |
|----------|----------|

### 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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## Accessories

### WIREFOX SAC - Stripping tool

1212623

<https://www.phoenixcontact.com/in/products/1212623>



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

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PHOENIX CONTACT (I) Pvt. Ltd.  
A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420  
[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)