

# SAC-5P-MS/10,0-924 - Bus system cable



1405979

<https://www.phoenixcontact.com/in/products/1405979>

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Bus system cable, CANopen®, DeviceNet™, 5-position, PVC, gray, shielded, Plug straight M12, coding: A, on free cable end, cable length: 10 m, Connector unshielded

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1405979                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF1                            |
| Product key                          | AF1IHE                         |
| GTIN                                 | 4046356800495                  |
| Weight per piece (including packing) | 631.5 g                        |
| Weight per piece (excluding packing) | 631.5 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | US                             |

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## Technical data

### Product properties

|                      |                         |
|----------------------|-------------------------|
| Product type         | Data cable preassembled |
| Application          | Standard, U.S. cables   |
| Sensor type          | CANopen®                |
| Number of positions  | 5                       |
| No. of cable outlets | 1                       |
| Shielded             | yes                     |
| Coding               | A                       |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 3  |

### Interfaces

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

### Signaling

|                        |    |
|------------------------|----|
| Status display         | no |
| Status display present | No |

### Electrical properties

|                                |          |
|--------------------------------|----------|
| Insulation resistance          | ≥ 100 MΩ |
| Nominal voltage U <sub>N</sub> | 48 V AC  |
|                                | 60 V DC  |
| Nominal current I <sub>N</sub> | 4 A      |
| Transmission medium            | Copper   |

### Material specifications

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Flammability rating according to UL 94 | HB                                          |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |
| Contact material                       | CuSn                                        |
| Contact surface material               | Ni/Au                                       |
| Contact carrier material               | TPU GF                                      |
| Material for screw connection          | Zinc die-cast, nickel-plated                |

### Connector

#### Connection 1

|                     |                   |
|---------------------|-------------------|
| Type                | Plug straight M12 |
| Number of positions | 5                 |
| Coding type         | A (Standard)      |

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## Connection 2

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

## Cable/line

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

## CANopen®/DeviceNet™, PVC, gray [924]

|                                     |                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------|
| Dimensional drawing                 |  |
| Cable weight                        | 64.51 kg/km                                                                        |
| UL AWM Style                        | 2464 (80°C/300 V)                                                                  |
| Number of positions                 | 4                                                                                  |
| Shielded                            | yes                                                                                |
| Cable type                          | CANopen®/DeviceNet™, PVC, gray [924]                                               |
| Conductor structure                 | 2xAWG22 (Signal) + 2xAWG22 (Power)                                                 |
| Signal runtime                      | 4.46 ns/m                                                                          |
| Conductor structure signal line     | 19x 0.15 mm                                                                        |
| AWG signal line                     | 22                                                                                 |
| Conductor structure, voltage supply | 19x 0.15 mm                                                                        |
| AWG power supply                    | 22                                                                                 |
| Conductor cross section             | 2x 0.34 mm <sup>2</sup> (Signal line)<br>2x 0.34 mm <sup>2</sup> (Power supply)    |
| Wire diameter incl. insulation      | 1.27 mm ±0.05 mm (Signal line)<br>2.24 mm ±0.13 mm (Power supply)                  |
| External cable diameter             | 6.90 mm ±0.13 mm                                                                   |
| Outer sheath, material              | PVC                                                                                |
| External sheath, color              | gray                                                                               |
| Conductor material                  | Bare Cu litz wires                                                                 |
| Material wire insulation            | Foamed PE (Signal line)<br>PVC (Power supply)                                      |
| Single wire, color                  | red-black, blue-white                                                              |
| Twisted pairs                       | 2 cores to the pair                                                                |
| Type of pair shielding              | Plastic-coated aluminum foil, aluminum side inside                                 |
| Overall twist                       | 2 pairs around a drain wire in the center to the core                              |
| Insulation resistance               | ≥ 59.38 Ω*m (Signal line)<br>≥ 57.41 GΩ*km (Power supply)                          |
| Wave impedance                      | 120 Ω ±12 Ω                                                                        |
| Working capacitance                 | nom. 78.74 pF (per meter)                                                          |

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|                                               |                                              |
|-----------------------------------------------|----------------------------------------------|
| Minimum bending radius, flexible installation | 15 x D                                       |
| Smallest bending radius, movable installation | 104 mm                                       |
| Shield attenuation                            | 0.95 dB (f = 125 kHz)                        |
|                                               | 1.64 dB (f = 500 kHz)                        |
|                                               | 2.30 dB (f = 1 MHz)                          |
| Flame resistance                              | FT4                                          |
| Resistance to oil                             | yes                                          |
| Other resistance                              | UV resistant                                 |
| Special properties                            | UL standards PLTC and ITC                    |
| Ambient temperature (operation)               | -30 °C ... 75 °C (cable, fixed installation) |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP68                             |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |

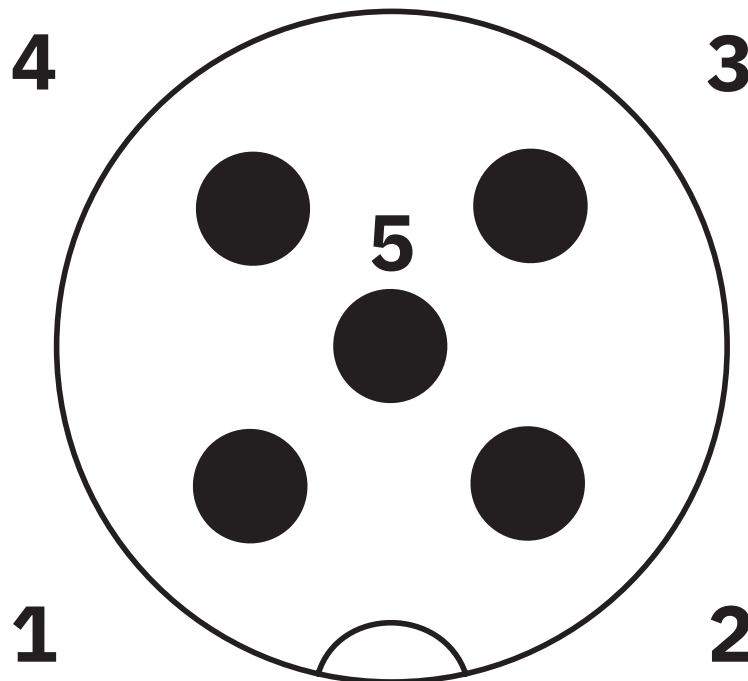
## Drawings

Dimensional drawing



Plug, M12 x 1, straight

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

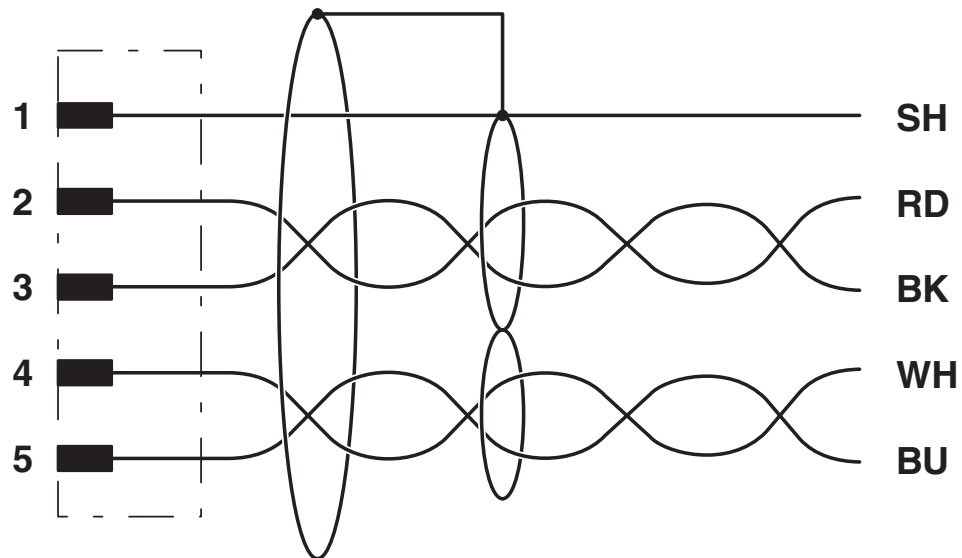
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Circuit diagram



Contact assignment of the M12 plug

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1405979>



### UL Listed

Approval ID: FILE E 221474

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 125 V                 | 4 A                   | -                 | -                           |



### cUL Listed

Approval ID: FILE E 221474

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 125 V                 | 4 A                   | -                 | -                           |

### cULus Listed

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

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

## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| REACH candidate substance (CAS No.) | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)(CAS: 123-77-3) |
| SCIP                                | 217c3c4c-935d-45fa-8105-7a84d7226bed                                    |

### EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 9.238 kg CO2e |
|---------|---------------|

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