

# SAC-5P- 2,0-924/FS SCO - Bus system cable



1405986

<https://www.phoenixcontact.com/us/products/1405986>

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Bus system cable, CANopen®, DeviceNet™, 5-position, PVC, gray, shielded, free cable end, on Socket straight M12, coding: A, cable length: 2 m, Connector unshielded

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1405986                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF15                           |
| Product key                          | AF1IHE                         |
| GTIN                                 | 4046356800426                  |
| Weight per piece (including packing) | 138 g                          |
| Weight per piece (excluding packing) | 138 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   |
| Number of positions  | 5                       |
| No. of cable outlets | 1                       |
| Shielded             | yes                     |
| Coding               | A                       |

### Insulation characteristics

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

### Approvals

#### National Marine Electronics Association

|             |          |
|-------------|----------|
| Certificate | approved |
|-------------|----------|

### Interfaces

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

### Signaling

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

### Electrical properties

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

### Material specifications

|  |   |
|--|---|
| Flammability rating according to UL 94 | HB  |
| Seal material                          | NBR   |
| 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

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## Connection 1

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


## Connection 2

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

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 2 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                                  |

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|   |   |
|---|---|
| Overall twist                                 | 2 pairs around a drain wire in the center to the core |
| Insulation resistance                         | ≥ 59.38 Ω*m (Signal line)                             |
|   | ≥ 57.41 GΩ*km (Power supply)                          |
| Wave impedance                                | 120 Ω ±12 Ω   |
| Working capacitance                           | nom. 78.74 pF (per meter)                             |
| 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) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket) |

## Approvals

### National Marine Electronics Association

|             |          |
|-------------|----------|
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## Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



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

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Circuit diagram



Contact assignment of the M12 socket

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## Approvals

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|  <b>UL Listed</b><br>Approval ID: FILE E 221474 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 125 V                 | 4 A                   | -                 | -                           |

|  <b>cUL Listed</b><br>Approval ID: FILE E 221474 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 125 V                 | 4 A                   | -                 | -                           |

|  <b>EAC-RoHS</b><br>Approval ID: RU D-DE.HB35.B.00387 |  |
|--|--|
|--|--|

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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.) | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)(CAS: 123-77-3)   |
|                                     | bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof(CAS: 26040-51-7) |
|                                     | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)                                      |
| SCIP                                | 9f6fab66-6126-48cf-bcec-49833060d8a3  |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.933 kg CO2e |
|---------|---------------|

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