# SAC-5P-M12MR/10,0-924 - Bus system cable

1405976

https://www.phoenixcontact.com/us/products/1405976

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

## Commercial data

| | |
|---|---|
| Item number | 1405976 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF15 |
| Product key | AF1IHE |
| GTIN | 4046356800525 |
| Weight per piece (including packing) | 637.7 g |
| Weight per piece (excluding packing) | 618 g |
| Customs tariff number | 85444290 |
| Country of origin | US |

# 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 |

## 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 $U_N$ | 48 V AC |
| | 60 V DC |
| Nominal current $I_N$ | 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 angled M12 SPEEDCON |
| Number of positions | 5 |
| Locking type | SPEEDCON |
| Coding type | A (Standard) |

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 mm² (Signal line) |
| | 2x 0.34 mm² (Power supply) |
| Wire diameter incl. insulation | 1.27 mm ±0.05 mm (Signal line) |
| | 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) |
| | 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) |
| | ≥ 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) |

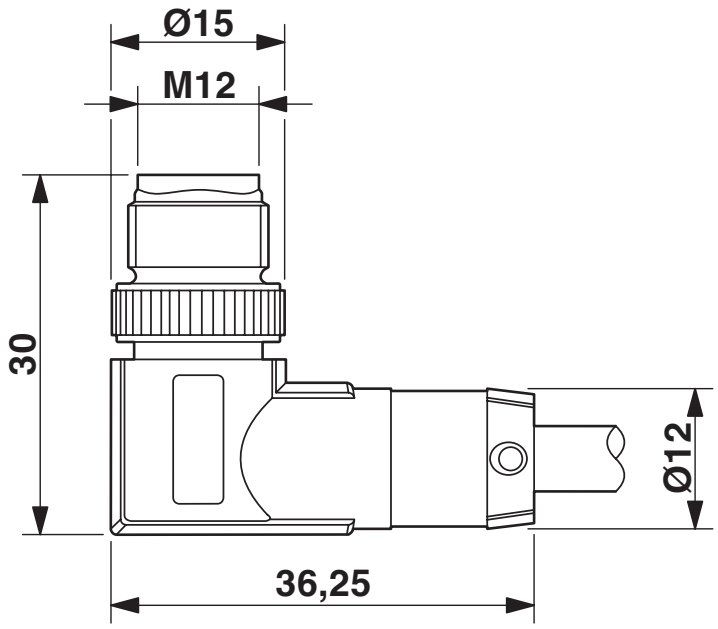
## Environmental and real-life conditions

### Ambient conditions

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

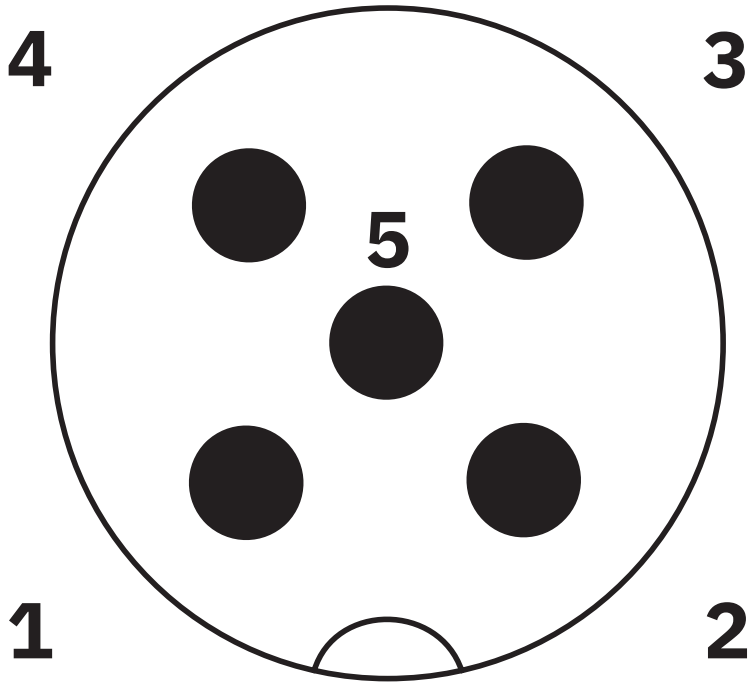
## Drawings

Dimensional drawing



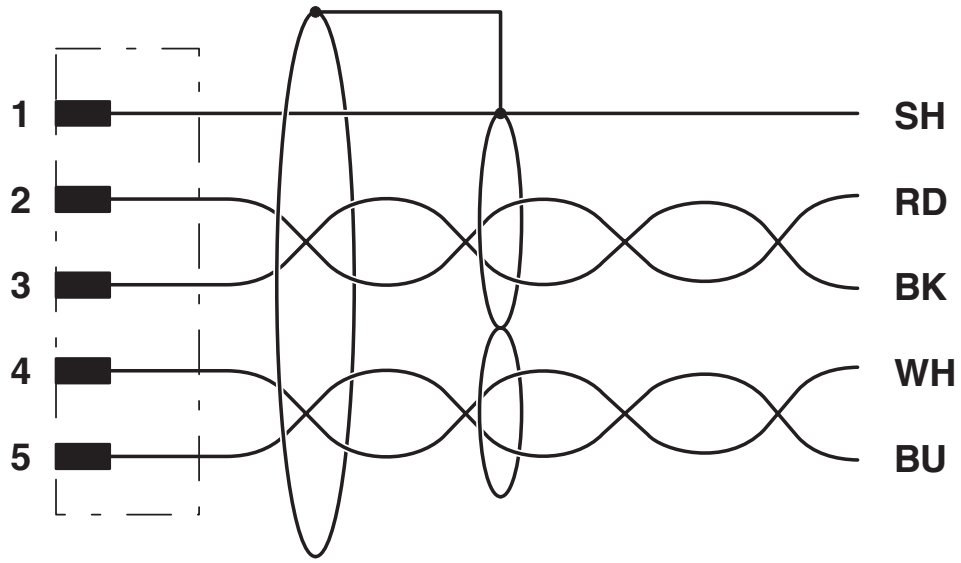

M12 x 1 male plug, angled

Schematic diagram




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

Circuit diagram




Contact assignment of the M12 plug

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1405976

**UL Listed**
Approval ID: FILE E 221474

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 4 A | - | - |

**cUL Listed**
Approval ID: FILE E 221474

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 125 V | 4 A | - | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002599 |

### 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-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) |
| SCIP | edd37b19-ffcb-4431-8cb3-cd557e896a37 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 9.229 kg CO2e |


Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com



Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com