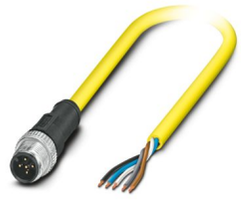
chanhvinh.com

# SAC-5P-M12MS/10,0-547 BK - Sensor/actuator cable

1424880

https://www.phoenixcontact.com/gb/products/1424880

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.



Sensor/actuator cable, 5-position, PVC, yellow, Plug straight M12, coding: A, on free cable end, cable length: 10 m

## Commercial data

| | |
|---|---|
| Item number | 1424880 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF1IFC |
| Product key | BF1IFC |
| GTIN | 4055626401522 |
| Weight per piece (including packing) | 771.5 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85444290 |
| Country of origin | US |

chanhvinh.com

# SAC-5P-M12MS/10,0-547 BK - Sensor/actuator cable

1424880

https://www.phoenixcontact.com/gb/products/1424880

## Technical data

### Product properties

| | |
|---|---|
| Product type | Sensor/actuator cable |
| Application | Standard, U.S. cables |
| Number of positions | 5 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |

Insulation characteristics

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

### 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 |
| Outer sheath, material | PVC |

### Electrical properties

| | |
|---|---|
| Insulation resistance | ≥ 10 MΩ |
| Nominal voltage $U_N$ | 48 V AC |
| | 60 V DC |
| Nominal current $I_N$ | 4 A |

### Signaling

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

### Connection data

Conductor connection

| | |
|---|---|
| Tightening torque | 0.4 Nm (M12 connector) |

### Connector

Connection 1

| | |
|---|---|
| Type | Plug straight M12 |
| Coding type | A |

Connection 2

chanhvinh.com

# SAC-5P-M12MS/10,0-547 BK - Sensor/actuator cable

1424880

https://www.phoenixcontact.com/gb/products/1424880

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

## Cable/line

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

PVC AWG 18 yellow 105°C [547]

| | |
|---|---|
| Dimensional drawing |  |
| UL AWM Style | 2517 (105 °C / 300 V) |
| Number of positions | 5 |
| Shielded | no |
| Cable type | PVC AWG 18 yellow 105°C [547] |
| Conductor structure signal line | 41x 0.16 mm |
| AWG signal line | 18 |
| Wire diameter incl. insulation | 1.7 mm ±0.03 mm |
| External cable diameter | 6.60 mm ±0.2 mm |
| Outer sheath, material | PVC |
| External sheath, color | yellow |
| Conductor material | Tin-plated Cu litz wires |
| Material, filler | PP |
| Material wire insulation | PVC |
| Single wire, color | brown, white, blue, black, gray |
| Overall twist | 5 wires around filler to the core |
| Nominal voltage, cable | 300 V |
| Minimum bending radius, fixed installation | 8 x D |
| Smallest bending radius, fixed installation | 53 mm |
| Flame resistance | FT4 |
| Special properties | C(UL) CMX OUTDOOR-CMG 105 °C |
| | UL ITC/PLTC 105 °C |
| | CSA AWM I/II A/B FT4 105 °C / 300 V |
| Ambient temperature (operation) | -30 °C ... 105 °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) |

chanhvinh.com



## Standards and regulations

| | |
|---|---|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |

chanhvinh.com

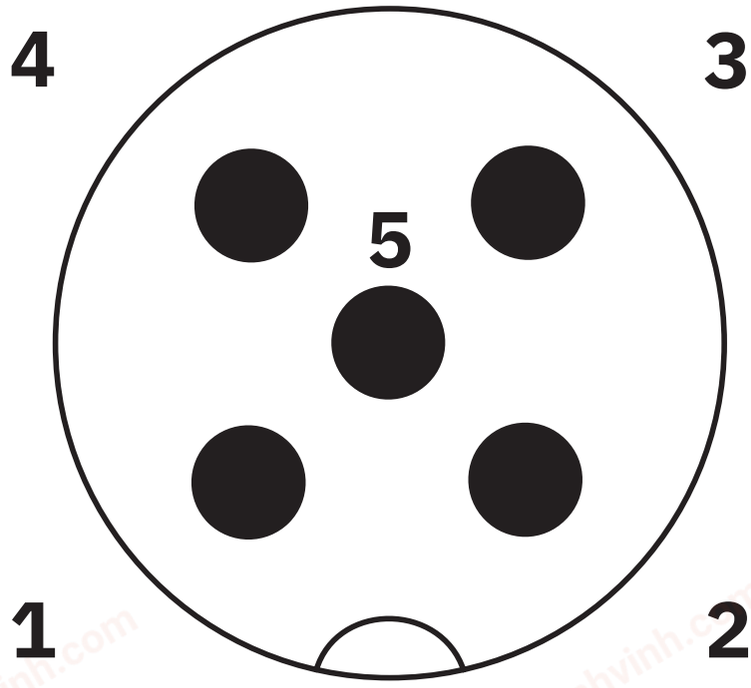
# SAC-5P-M12MS/10,0-547 BK - Sensor/actuator cable

1424880

https://www.phoenixcontact.com/gb/products/1424880

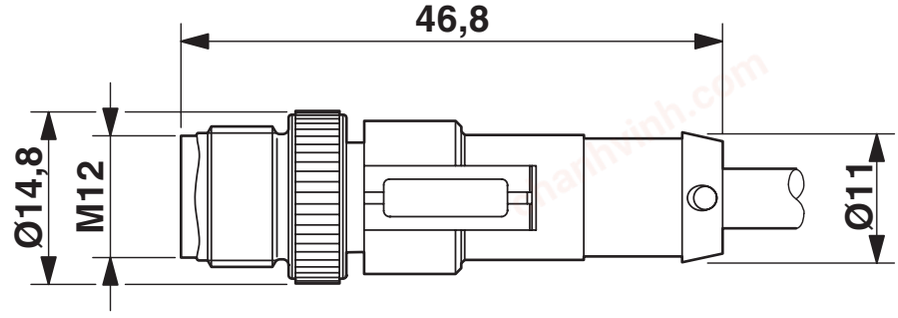
## Drawings

Schematic diagram




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

Dimensional drawing




Plug, M12 x 1, straight, shielded

chanhvinh.com

# SAC-5P-M12MS/10,0-547 BK - Sensor/actuator cable

1424880

https://www.phoenixcontact.com/gb/products/1424880

Circuit diagram



chanhvinh.com

# SAC-5P-M12MS/10,0-547 BK - Sensor/actuator cable

1424880

https://www.phoenixcontact.com/gb/products/1424880

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1424880

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

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

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

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

**EAC-RoHS**
Approval ID: RU D-DE.HB35.B.00387

**cULus Listed**

chanhvinh.com

# SAC-5P-M12MS/10,0-547 BK - Sensor/actuator cable

1424880

https://www.phoenixcontact.com/gb/products/1424880

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ECLASS-13.0 | 27060311 |

### ETIM

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

### UNSPSC

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

chanhvinh.com

# SAC-5P-M12MS/10,0-547 BK - Sensor/actuator cable

1424880

https://www.phoenixcontact.com/gb/products/1424880

## 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.) | No substance above 0.1 wt% |

Phoenix Contact 2024 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk