

1424902

<https://www.phoenixcontact.com/pc/products/1424902>

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, 4-position, PVC, yellow, Plug angled M12, coding: A, on free cable end, cable length: 5 m

Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1424902                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | BF1IFB                         |
| GTIN                                 | 4055626401744                  |
| Weight per piece (including packing) | 22.22 g                        |
| Weight per piece (excluding packing) | 22.22 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | US                             |

# SAC-4P-M12MR/ 5,0-547 BK - Sensor/actuator cable



1424902

<https://www.phoenixcontact.com/pc/products/1424902>

## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Application          | Standard, U.S. cables |
| Number of positions  | 4                     |
| 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 | $\geq 10 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 250 V AC                  |
|                       | 250 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 angled M12 |
| Coding type | A               |

#### Connection 2

# SAC-4P-M12MR/ 5,0-547 BK - Sensor/actuator cable



1424902

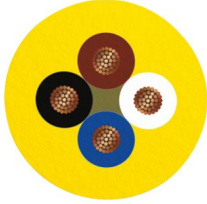
<https://www.phoenixcontact.com/pc/products/1424902>

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

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

PVC AWG 18 yellow 105°C [547]

|                                             |                                                                                           |
|---------------------------------------------|-------------------------------------------------------------------------------------------|
| Dimensional drawing                         |         |
| UL AWM Style                                | 2517 (105 °C / 300 V)                                                                     |
| Number of positions                         | 4                                                                                         |
| 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                     | 6.00 mm ±0.2 mm                                                                           |
| Outer sheath, material                      | PVC                                                                                       |
| External sheath, color                      | yellow                                                                                    |
| Conductor material                          | Tin-plated Cu litz wires                                                                  |
| Material wire insulation                    | PVC                                                                                       |
| Single wire, color                          | brown, white, blue, black                                                                 |
| Overall twist                               | 4 wires, twisted                                                                          |
| Nominal voltage, cable                      | 300 V                                                                                     |
| Minimum bending radius, fixed installation  | 8 x D                                                                                     |
| Smallest bending radius, fixed installation | 48 mm                                                                                     |
| Flame resistance                            | FT4                                                                                       |
| Special properties                          | C(UL) CMX OUTDOOR-CMG 105 °C<br>UL ITC/PLTC 105 °C<br>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<br>IP67<br>IP68             |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |

# SAC-4P-M12MR/ 5,0-547 BK - Sensor/actuator cable



1424902

<https://www.phoenixcontact.com/pc/products/1424902>

## Standards and regulations

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

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG

Flachsmarktstraße 8

D-32825 Blomberg

+49 (0) 5235-3 00

[info@phoenixcontact.com](mailto:info@phoenixcontact.com)