

## Sensor/Actuator cable - SAC-3P- 2,0-542/ FR SH SCO BK - 1406270

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's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Sensor/Actuator cable, 3-position, PVC, Yellow RAL 1021, shielded, Free cable end, on Socket angled M12-SPEEDCON, A-coded, Cable length: 2 m



### Key commercial data

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit         | 1 PCE                                                                                                   |
| GTIN                 | <br>4 046356 797825 |
| Custom tariff number | 85444290                                                                                                |
| Country of origin    | UNITED STATES                                                                                           |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 2 m |
|-----------------|-----|

#### Ambient conditions

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

#### General

|                       |                                       |
|-----------------------|---------------------------------------|
| Rated current at 40°C | 4 A                                   |
| Rated voltage         | 250 V                                 |
| Number of positions   | 3                                     |
| Contact resistance    | ≤ 5 mΩ                                |
| Insulation resistance | ≥ 100 MΩ                              |
| Standards/regulations | M12 plug-in connector IEC 61076-2-101 |
| Coding                | A - standard                          |

# Sensor/Actuator cable - SAC-3P- 2,0-542/ FR SH SCO BK - 1406270

## Technical data

### General

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Surge voltage category      | II                                          |
| Pollution degree            | 3                                           |
| Insertion/withdrawal cycles | ≥ 100                                       |
| Torque                      | 0.4 Nm (M12 plug-in connector)              |
| Contact material            | CuSn                                        |
| Contact surface material    | Ni/Au                                       |
| Contact carrier material    | TPU GF                                      |
| Material of grip body       | TPU, hardly inflammable, self-extinguishing |
| Material, knurls            | Zinc die-cast, nickel-plated                |
| Sealing material            | NBR                                         |
| Status display              | No                                          |

### Line characteristics

|                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|
| Cable type                                    | PVC yellow 105 °C                             |
| Cable type (abbreviation)                     | 542                                           |
| UL AWM style                                  | 2517 (105°C/300 V)                            |
| AWG signal line                               | 22                                            |
| Core diameter including insulation            | 1.27 mm ±0.03 mm                              |
| Wire colors                                   | brown, blue, black                            |
| Overall twist                                 | 3 wires, twisted                              |
| Shielding                                     | Tinned copper braided shield                  |
| Optical shield covering                       | 85 %                                          |
| External sheath, color                        | yellow                                        |
| External cable diameter D                     | 5.2 mm ± 0.2 mm                               |
| Minimum bending radius, flexible installation | 12 x D                                        |
| Cable weight                                  | 40 kg/km                                      |
| Outer sheath, material                        | PVC                                           |
| Material conductor insulation                 | PVC                                           |
| Conductor material                            | Tin-plated Cu litz wires                      |
| Nominal voltage, cabel                        | 300 V                                         |
| Special properties                            | UL standards PLTC and ITC                     |
| Other resistance                              | UV resistant                                  |
| Ambient temperature (operation)               | -30 °C ... 105 °C (cable, fixed installation) |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
|------------|----------|

## Sensor/Actuator cable - SAC-3P- 2,0-542/ FR SH SCO BK - 1406270

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |

### Approvals

#### Approvals

#### Approvals

UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

#### Approvals submitted

#### Approval details

|                                                                                               |     |
|-----------------------------------------------------------------------------------------------|-----|
| UL Listed  |     |
| Nominal current I <sub>N</sub>                                                                | 4 A |

## Sensor/Actuator cable - SAC-3P- 2,0-542/ FR SH SCO BK - 1406270

### Approvals

|                    |       |
|--------------------|-------|
| Nominal voltage UN | 300 V |
|--------------------|-------|

|                                                                                              |       |
|----------------------------------------------------------------------------------------------|-------|
| cUL Listed  |       |
| Nominal current IN                                                                           | 4 A   |
| Nominal voltage UN                                                                           | 300 V |

|                                                                                                |  |
|------------------------------------------------------------------------------------------------|--|
| cULus Listed  |  |
|------------------------------------------------------------------------------------------------|--|

### Accessories

#### Accessories

##### Fuse

Fuse clip - SAC-M12-EXCLIP-F - 1558991



Fuse clip for the socket side of various M12 sensor/actuator connectors prevents plug-in connections being interrupted without using a tool

#### Protection and sealing elements

Screw plug - PROT-M12 MS-PA-CHAIN - 1430899

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets



#### Tools

## Sensor/Actuator cable - SAC-3P- 2,0-542/ FR SH SCO BK - 1406270

### Accessories

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

---

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

---

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

---

Tool - SAC BIT M12-D15 - 1208432



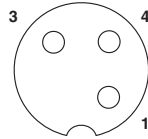
Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

---

### Drawings

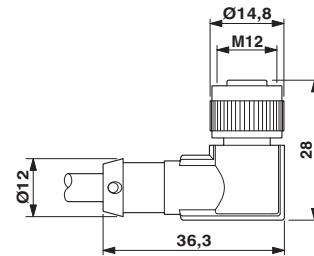
## Sensor/Actuator cable - SAC-3P- 2,0-542/ FR SH SCO BK - 1406270

Schematic diagram



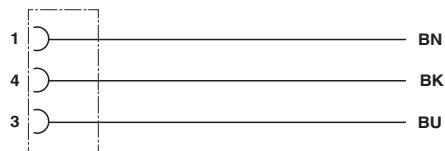
Pin assignment M12 socket, 3-pos., A-coded, view female side

Dimensioned drawing



M12 x 1 socket, angled, shielded

Circuit diagram



Contact assignment of the M12 socket

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9