

## Sensor/Actuator cable - SAC-5P- 5,0-115/M 8FSB - 1404473

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, 5-position, PUR, Black-gray RAL 7021, Free cable end, on Socket straight M8, B-coded, Cable length: 5 m

### Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Our standard: robust halogen-free PUR cable



### Key commercial data

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit         | 1 PCE                                                                                                   |
| GTIN                 | <br>4 046356 697101 |
| Custom tariff number | 85444290                                                                                                |
| Country of origin    | GERMANY                                                                                                 |

### Technical data

#### General data

|                                 |                                  |
|---------------------------------|----------------------------------|
| Rated current at 40°C           | 3 A                              |
| Rated voltage                   | 30 V                             |
| Number of positions             | 5                                |
| Volume resistance               | ≤ 5 mΩ                           |
| Insulation resistance           | ≥ 100 MΩ                         |
| Length of cable                 | 5 m                              |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |

#### General characteristics

|                       |                                      |
|-----------------------|--------------------------------------|
| Standards/regulations | M8 plug-in connector IEC 61076-2-104 |
| Coding                | B - inverse                          |

# Sensor/Actuator cable - SAC-5P- 5,0-115/M 8FSB - 1404473

## Technical data

### General characteristics

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Surge voltage category      | II                                          |
| Pollution degree            | 3                                           |
| Degree of protection        | IP65                                        |
| Degree of protection        | IP67                                        |
| Degree of protection        | IP68                                        |
| Insertion/withdrawal cycles | ≥ 100                                       |
| Torque                      | 0.2 Nm (M8 plug-in connectors)              |
| 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                                          |

### Conductor data

|                                               |                                     |
|-----------------------------------------------|-------------------------------------|
| Cable type                                    | PUR halogen-free black              |
| Cable type (abbreviation)                     | 115                                 |
| Cable abbreviation                            | Li9Y11Y                             |
| UL AWM style                                  | 20549                               |
| Conductor cross section                       | 0.25 mm <sup>2</sup>                |
| AWG signal line                               | 24                                  |
| Conductor structure signal line               | 32x 0.10 mm                         |
| Core diameter including insulation            | 1.17 mm ±0.02 mm                    |
| Thickness, insulation                         | approx. 0.21 mm (Core insulation)   |
| Thickness, insulation                         | approx. 0.7 mm (Outer cable sheath) |
| Wire colors                                   | Brown, white, blue, black, gray     |
| Overall twist                                 | 5 cores, twisted                    |
| Length of twist, overall twist                | 75 mm                               |
| External sheath, color                        | Black-gray RAL 7021                 |
| External cable diameter D                     | 4.7 mm ±0.15 mm                     |
| Smallest bending radius, fixed installation   | 23.5 mm                             |
| Smallest bending radius, movable installation | 47 mm                               |
| Number of bending cycles                      | 4000000                             |
| Bending radius                                | 47 mm                               |
| Traversing path                               | 10 m                                |
| Traversing rate                               | 3 m/s                               |
| Acceleration                                  | 10 m/s <sup>2</sup>                 |

## Sensor/Actuator cable - SAC-5P- 5,0-115/M 8FSB - 1404473

### Technical data

#### Conductor data

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Cable weight                    | 30 kg/km                                        |
| Outer sheath, material          | PUR                                             |
| Material, filler                | PP                                              |
| Material conductor insulation   | PP                                              |
| Conductor material              | Bare Cu litz wires                              |
| Insulation resistance           | $\geq 1 \text{ G}\Omega\cdot\text{km}$          |
| Conductor resistance            | $\leq 75 \text{ }\Omega/\text{km}$              |
| Nominal voltage, conductor      | $\leq 300 \text{ V (AC)}$                       |
| Test voltage, conductor         | $\geq 3000 \text{ V (AC)}$                      |
| Flame resistance                | according to UL 758/1581 (horizontal)           |
| Flame resistance                | In accordance with UL 758/1581 FT2              |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815        |
| Halogen-free                    | in accordance with DIN EN 50267-2-1             |
| Resistance to oil               | According to DIN EN 60811-2-1, 168 h at 100°C   |
| Other resistance                | hydrolysis and microbe resistant                |
| Other resistance                | Resistant to salt water                         |
| Other resistance                | Low adhesion                                    |
| Other resistance                | abrasion-resistant                              |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)    |
| Ambient temperature (operation) | -25 °C ... 80 °C (cable, flexible installation) |

### Classifications

#### ETIM

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

#### UNSPSC

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

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |

## Sensor/Actuator cable - SAC-5P- 5,0-115/M 8FSB - 1404473

### Classifications

#### eCl@ss

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

### Accessories

#### Accessories

#### Marking

##### Insert label - PABA WH/15 - 1013151



Insert label, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

##### Insert label - PABA YE/15 - 1013698



Insert label, Strip, yellow, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

##### Insert label - PABA RD/15 - 1013944



Insert label, Strip, red, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

##### Conductor marker carrier - PATG 2/23 - 1013850



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 23 mm

## Sensor/Actuator cable - SAC-5P- 5,0-115/M 8FSB - 1404473

### Accessories

Conductor marker carrier - PATG 3/23 - 1013863



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 23 mm

---

Conductor marker carrier - PATG 4/23 - 0808011



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 23 mm

---

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

---

### Protection and sealing elements

Screw plug - PROT-M 8 MS-PA-CHAIN - 1430860

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets



---

### Tools

Cable-cutting tool - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

## Sensor/Actuator cable - SAC-5P- 5,0-115/M 8FSB - 1404473

### Accessories

---

#### Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

---

#### Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

---

#### Torque screwdriver - TSD 02 SAC - 1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

---

#### Tool - SAC BIT M8-D10 - 1208461



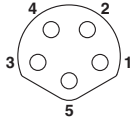
Nut for assembling sensor/actuator cables with M8 connector and for M8 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

---

### Drawings

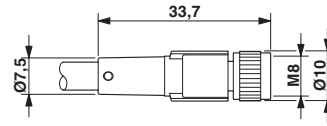
## Sensor/Actuator cable - SAC-5P- 5,0-115/M 8FSB - 1404473

Schematic diagram



Pin assignment, socket side, M8, 5-pos., B-coded

Dimensioned drawing



Socket M8 x 1, straight

Circuit diagram



Contact assignment of M8 socket

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)