



**Automatización Eléctrica**  
Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#). [HERE](#)

## Sensor/Actuator cable - SAC-12P- 1,0-35T/FS SH SCO - 1434730

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://phoenixcontact.com/download>)



Sensor/Actuator cable, 12-position, PUR, black RAL 9005, shielded, free cable end, on Socket straight M12 SPEEDCON, A-coded, Cable length: 1 m

### Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Save time, thanks to installation with SPEEDCON fast locking system
- Save space – with high-pos. connectors
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 046356 456692 |

### Technical data

#### Dimensions

|  |       |
|--|-------|
| Length of cable                            | 1 m   |
| Stripping length of the free conductor end | 35 mm |

#### Ambient conditions

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

#### General

|                       |                               |
|-----------------------|-------------------------------|
| Rated current at 40°C | 1.5 A                         |
| Rated voltage         | 30 V                          |
| Number of positions   | 12                            |
| Insulation resistance | ≥ 100 MΩ                      |
| Coding                | A - standard                  |
| Standards/regulations | M12 connector IEC 61076-2-101 |

# Sensor/Actuator cable - SAC-12P- 1,0-35T/FS SH SCO - 1434730

## Technical data

### General

|                              |                        |
|------------------------------|------------------------|
| Status display               | No                     |
| Protective circuit/component | Unwired                |
| Overvoltage category         | II                     |
| Degree of pollution          | 3                      |
| Torque                       | 0.4 Nm (M12 connector) |

### Material

|  |   |
|--|---|
| Flammability rating according to UL 94 | V0  |
| Contact material                       | CuZn  |
| Contact surface material               | Ni/Au                                       |
| Contact carrier material               | PA 66                                       |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |
| Material, knurls                       | Zinc die-cast, nickel-plated                |
| Sealing material                       | NBR   |

### Cable

|                                    |  |
|------------------------------------|--|
| Cable type                         | Black PUR/PVC twisted pair   |
| Cable type (abbreviation)          | 35T  |
| Conductor cross section            | 0.14 mm <sup>2</sup>   |
| AWG signal line                    | 26   |
| Conductor structure signal line    | 18x 0.10 mm  |
| Core diameter including insulation | 1 mm ±0.05 mm  |
| Wire colors                        | White-brown, green-yellow, gray-pink, blue-red, black-violet, gray/pink-red/blue |
| Overall twist                      | Six pairs around the filler to the core  |
| Shielding                          | Tinned copper braided shield   |
| Optical shield covering            | 85 %   |
| External sheath, color             | black RAL 9005   |
| External cable diameter            | 8.50 mm  |
| Number of bending cycles           | 2000000  |
| Bending radius                     | 85 mm  |
| Traversing path                    | 10 m   |
| Traversing rate                    | 3 m/s  |
| Acceleration                       | 10 m/s <sup>2</sup>  |
| Outer sheath, material             | PUR  |
| Material conductor insulation      | PVC  |
| Conductor material                 | Tin-plated Cu litz wires   |
| Conductor resistance               | 142 Ω/km   |
| Flame resistance                   | DIN VDE 0472 part 804, test type B   |
| Resistance to oil                  | DIN VDE 0472 Part 803, test type B   |
| Other resistance                   | Hydrolysis and microbe resistant as per VDE 0282 section 10                      |
| Ambient temperature (operation)    | -40 °C ... 80 °C (cable, fixed installation)                                     |

# Sensor/Actuator cable - SAC-12P- 1,0-35T/FS SH SCO - 1434730

## Technical data

### Cable

|  |  |
|--|--|
|  | -5 °C ... 80 °C (cable, flexible installation) |
|--|--|

### Standards and Regulations

|  |   |
|--|---|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101   |
| Resistance to oil                      | DIN VDE 0472 Part 803, test type B                          |
| Flame resistance                       | DIN VDE 0472 part 804, test type B                          |
| Other resistance                       | Hydrolysis and microbe resistant as per VDE 0282 section 10 |
| Flammability rating according to UL 94 | V0  |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| 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 |
| eCl@ss 8.0 | 27279218 |

### 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

#### EAC

---

#### Ex Approvals

# Sensor/Actuator cable - SAC-12P- 1,0-35T/FS SH SCO - 1434730

## Approvals

---

Approvals submitted

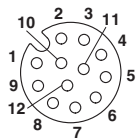
---

## Approval details

EAC

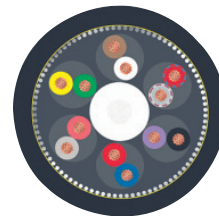
## Drawings

Schematic diagram



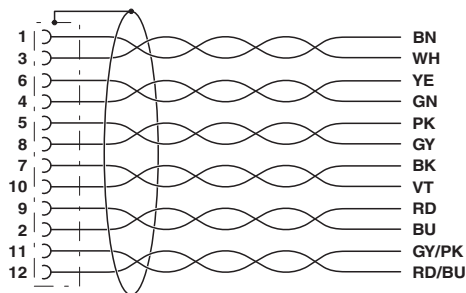
Pin assignment M12, 12-pos., female side view

Cable cross section



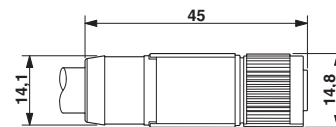
Black PUR/PVC twisted pair [35T]

Circuit diagram



Contact assignment of the M12 socket

Dimensional drawing



Socket M12-SPEEDCON, straight, shielded

Phoenix Contact 2016 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>



Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button.](#)

| Product  | Code    | Reference                 | Product link               |
|--|---------|---------------------------|----------------------------|
| Sensor/Actuator cable, 12-position, PUR, black RAL 9005, shielded, free cable end, on Socket straight M12 SPEEDCON, A-coded, Cable length: 1 m | 1434730 | SAC-12P-1,0-35T/FS SH SCO | <a href="#">Buy on EAN</a> |