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Especialistas en Automatización

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## Sensor/Actuator cable - SAC-12P-MR/ 3,0-PVC SCO - 1554827

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Sensor/Actuator cable, 12-position, PVC, black RAL 9005, Plug angled M12 SPEEDCON, A-coded, on free cable end, Cable length: 3 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



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 046356 176439 |

### Technical data

#### Dimensions

|  |        |
|--|--------|
| Length of cable                            | 3 m    |
| Cable diameter                             | 5.9 mm |
| 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                             |
|                                 | IP68                             |

#### General

|                       |              |
|-----------------------|--------------|
| Rated current at 40°C | 1.5 A        |
| Rated voltage         | 30 V         |
| Number of positions   | 12           |
| Insulation resistance | ≥ 10 MΩ      |
| Coding                | A - standard |

# Sensor/Actuator cable - SAC-12P-MR/ 3,0-PVC SCO - 1554827

## Technical data

### General

|                              |                               |
|------------------------------|-------------------------------|
| Standards/regulations        | M12 connector IEC 61076-2-101 |
| 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 | HB  |
| Contact material                       | CuZn  |
| 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                |

### Cable

|   |  |
|---|--|
| Cable type                                    | PVC black                                      |
| Conductor cross section                       | 0.14 mm <sup>2</sup>                           |
| AWG signal line                               | 26   |
| Conductor structure signal line               | 18x 0.10 mm                                    |
| Wire colors                                   | Color-coded DIN 47100                          |
| Overall twist                                 | Wires twisted in layers                        |
| External sheath, color                        | black RAL 9005                                 |
| External cable diameter                       | 5.90 mm  |
| Smallest bending radius, movable installation | 88.5 mm  |
| Outer sheath, material                        | PVC  |
| Material conductor insulation                 | PVC  |
| Conductor material                            | Bare Cu litz wires                             |
| Conductor resistance                          | 142 Ω/m  |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)   |
|   | -5 °C ... 80 °C (cable, flexible installation) |

### Standards and Regulations

|  |                 |
|--|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Flammability rating according to UL 94 | HB              |

### Classifications

#### eCl@ss

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

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| 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

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Approvals

EAC

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Ex Approvals

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Approvals submitted

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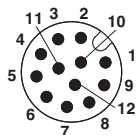
### Approval details

|     |
|-----|
| EAC |
|-----|

## Drawings

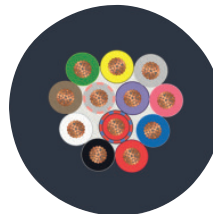
# Sensor/Actuator cable - SAC-12P-MR/ 3,0-PVC SCO - 1554827

Schematic diagram



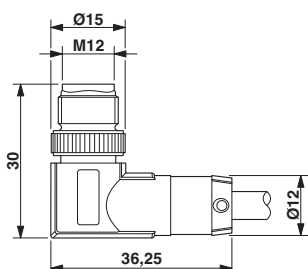
Pin assignment M12 male connector, 12-pos., male side view

Cable cross section



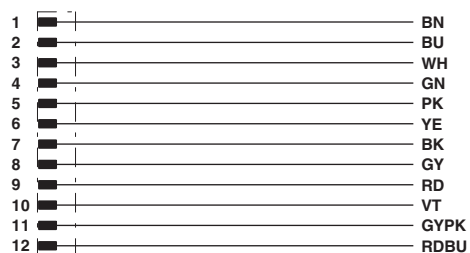
PVC black [PVC]

Dimensional drawing



M12 SPEEDCON plug, angled

Circuit diagram



Contact assignment of the M12 plug



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