

# SAC-3P-10,0-160/M8FR 0,34 - Sensor/actuator cable



1401234

<https://www.phoenixcontact.com/us/products/1401234>

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Sensor/actuator cable, 3-position, PUR halogen-free, irradiated, yellow, free cable end, on Socket angled M8, coding: A, cable length: 10 m

With yellow line 160

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1401234                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF01                           |
| Product key                          | AF1BBA                         |
| GTIN                                 | 4046356540520                  |
| Weight per piece (including packing) | 357 g                          |
| Weight per piece (excluding packing) | 357 g                          |
| Customs tariff number                | 85444290                       |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Number of positions  | 3                     |
| No. of cable outlets | 1                     |
| 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                |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 48 V AC                    |
|                       | 60 V DC                    |
| Nominal current $I_N$ | 4 A                        |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Signaling

|                        |    |
|------------------------|----|
| Status display         | no |
| Status display present | no |

### Connector

#### Connection 1

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

#### Connection 2

|                     |                  |
|---------------------|------------------|
| Type                | Socket angled M8 |
| Number of positions | 3                |
| Coding type         | A                |

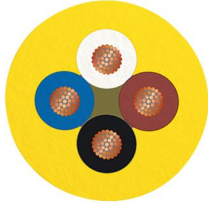
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## Cable/line

|   |  |
|---|--|
| Cable length                                  | 10 m   |
| PUR irradiated halogen-free yellow [160]      |  |
| Dimensional drawing                           |                  |
| Number of positions                           | 4  |
| Shielded                                      | no   |
| Cable type                                    | PUR irradiated halogen-free yellow [160]   |
| Conductor structure signal line               | 19x 0.15 mm  |
| AWG signal line                               | 22   |
| Conductor cross-section                       | 4x 0.34 mm <sup>2</sup> (Signal line)  |
| Wire diameter incl. insulation                | 1.05 mm ±0.05 mm (Signal line)   |
| External cable diameter                       | 5.20 mm ±0.2 mm  |
| Outer sheath, material                        | PUR  |
| External sheath, color                        | yellow   |
| Conductor material                            | Bare Cu litz wires   |
| Material wire insulation                      | PE   |
| Single wire, color                            | brown, white, blue, black  |
| Overall twist                                 | 4 wires, twisted   |
| Length of twist, overall twist                | 27 mm  |
| Max. conductor resistance                     | ≤ 57 Ω/km  |
| Nominal voltage, cable                        | 320 V AC   |
| Test voltage                                  | 2500 V AC (50 Hz, 5 minutes)   |
| Smallest bending radius, fixed installation   | min. 15 mm   |
| Smallest bending radius, movable installation | min. 30 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000000, Bending radius: 52 mm, Traversing path: 10 m, Traversing rate: 3 m/s |
| Dynamic load capacity (torsion)               | Torsion: 360 °/m   |
| Halogen-free                                  | The cable is halogen-free  |
| Flame resistance                              | DIN VDE 0472 part 804, test type B   |
| Other resistance                              | hydrolysis and microbe resistant   |
| Special properties                            | Silicone-free<br>Irradiated  |
| Ambient temperature (operation)               | -50 °C ... 105 °C (cable, fixed installation)<br>-40 °C ... 105 °C (Cable, flexible installation)  |

## Environmental and real-life conditions

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## Ambient conditions

|   |                                  |
|---|----------------------------------|
| Degree of protection  | IP65                             |
|   | IP67                             |
|   | IP68                             |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket) |

## Drawings

Dimensional drawing



Socket M8 x 1, angled

Schematic diagram



Pin assignment M8 socket, 3-pos., view female side

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Circuit diagram



Contact assignment of M8 socket

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060311 |
| ECLASS-15.0 | 27060311 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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