# Sensor/actuator cable - SAC-8P-MR/5,0-285 SH SCO S-CV - 1414445

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Sensor/actuator cable, 8-position, PUR, gray RAL 7001, shielded, Plug angled M12 SPEEDCON, A-coded, on free cable end, cable length: 5 m, Twisted pair cable

## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| GTIN | 4 055626 027975 |
| GTIN | 4055626027975 |

## Technical data

### Dimensions

| | |
|---|---|
| Length of cable | 5 m |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |

### General

| | |
|---|---|
| Rated current at 40°C | 2 A |
| Rated voltage | 30 V AC |
| | 30 V DC |
| Number of positions | 8 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Status display | No |
| Protective circuit/component | unwired |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |

### Material

| | |
|---|---|
| Flammability rating according to UL 94 | HB |
| Contact material | CuZn |
| Contact surface material | Ni/Au |

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## Technical data

### Material

| | |
|---|---|
| Contact carrier material | TPU GF |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |

### Standards and Regulations

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

### Cable

| | |
|---|---|
| Cable type | PUR, gray, shielded |
| Cable type (abbreviation) | 285 |
| Cable abbreviation | Li12YC11Y-HF |
| Conductor cross section | 4x 2x 0.25 mm² (Signal line) |
| | 1x 0.25 mm² (Drain wire) |
| AWG signal line | 24 |
| Conductor structure signal line | 32x 0.10 mm |
| Wire colors | white-brown, green-yellow, gray-pink, blue-red |
| Twisted pairs | 2 cores to the pair |
| Overall twist | 4 pairs for core |
| Shielding | Tinned copper braided shield |
| Optical shield covering | 85 % |
| External sheath, color | gray RAL 7001 |
| External cable diameter D | 7.6 mm ±0.2 mm |
| Minimum bending radius, flexible installation | 7.5 x D |
| Number of bending cycles | 3000000 |
| Bending radius | 100 mm |
| Traversing path | 1.2 m |
| Traversing rate | 1.4 m/s |
| Acceleration | 2 m/s² |
| Outer sheath, material | PUR |
| Material conductor insulation | PES |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 100 MΩ*km |
| Nominal voltage, cable | 350 V |
| Test voltage, cable | 1200 V |
| Resistance to oil | very good oil and chemical resistance |
| Other resistance | ozone and UV resistant |
| | Low adhesion |
| | abrasion-resistant |
| | notch tough |

# Sensor/actuator cable - SAC-8P-MR/5,0-285 SH SCO S-CV - 1414445

## Technical data

### Cable

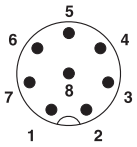
| | |
|---|---|
| Ambient temperature (operation) | -50 °C ... 80 °C (cable, fixed installation) |
| | -40 °C ... 80 °C (cable, flexible installation) |

### Environmental Product Compliance

| | |
|---|---|
| REACh SVHC | Lead 7439-92-1 |

## Drawings

Schematic diagram

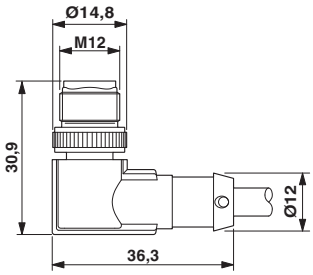



Pin assignment M12 plug, 8-pos., view plug side

Cable cross section

PUR, gray, shielded [285]

Dimensional drawing




M12 x 1 male plug, angled, shielded

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