

Sensor/actuator cable - SAC-12P-20,0-35T/FS SH SCO - 1406416


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Sensor/actuator cable, 12-position, PUR/PVC, black RAL 9005, shielded, free cable end, on Socket straight M12 SPEEDCON, A-coded, cable length: 20 m



Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 1 STK |
| Minimum order quantity | 25 STK |
| GTIN |  4 046356 767293 |
| GTIN | 4046356767293 |

Technical data

Dimensions

| | |
|--|-------|
| Length of cable | 20 m |
| Stripping length of the free conductor end | 35 mm |

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP65 |
| | IP67 |

General

| | |
|-----------------------|-------------------------------|
| Rated current at 40°C | 1.5 A |
| Rated voltage | 30 V AC |
| | 30 V DC |
| Number of positions | 12 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Status display | No |
| Overvoltage category | II |
| Degree of pollution | 3 |

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Technical data

Material

| | |
|--|---|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 6.6 |
| 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 |
| 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 |
| Flammability rating according to UL 94 | V0 |

Cable

| | |
|---|--|
| Cable type | Black PUR/PVC twisted pair |
| Cable type (abbreviation) | 35T |
| Cable abbreviation | LSPYwC11Y |
| UL AWM style | 20233 / 1061 (80°C/300 V) |
| Conductor cross section | 12x 0.14 mm ² (Signal line) |
| AWG signal line | 26 |
| Conductor structure signal line | 18x 0.10 mm |
| Core diameter including insulation | 1 mm ±0.05 mm (Signal line) |
| Wire colors | White-brown, green-yellow, gray-pink, blue-red, black-violet, gray/pink-red/blue |
| Twisted pairs | 2 cores to the pair |
| 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 D | 8.5 mm ±0.2 mm |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Number of bending cycles | 2000000 |
| Bending radius | 85 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Cable weight | 87 kg/km |
| Outer sheath, material | PUR |

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Technical data

Cable

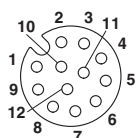
| | |
|---------------------------------|--|
| Material, inner sheath | PVC |
| Material conductor insulation | PVC |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ 10 MΩ*km (at 20 °C) |
| Conductor resistance | ≤ 142 Ω/km (at 20 °C) |
| Nominal voltage, cable | 42 V AC |
| Test voltage, cable | 1500 V AC |
| Special properties | Flexible cable conduit capable |
| Flame resistance | According to DIN EN 60332-1-2 |
| | According to VW-1 |
| Halogen-free | According to EN 50267-2-1 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | hydrolysis and microbe resistant according to EN 50396 |
| Ambient temperature (operation) | -30 °C ... 80 °C (cable, fixed installation) |
| | -5 °C ... 80 °C (cable, flexible installation) |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Schematic diagram



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

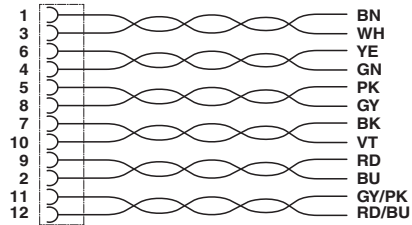
Cable cross section



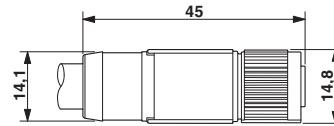
Black PUR/PVC twisted pair [35T]

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Circuit diagram



Dimensional drawing



Contact assignment of the M12 socket

Socket M12-SPEEDCON, straight, shielded

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