


Sensor/actuator cable - SAC-12P-MS/ 0,3-35T/FS SH SCO - 1419573

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Sensor/actuator cable, 12-position, PUR/PVC, black RAL 9005, shielded, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 0.3 m



Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| GTIN |  4 055626 182124 |
| GTIN | 4055626182124 |

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 0.3 m |
|-----------------|-------|

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 |

Material

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

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Technical data

Material

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

Standards and Regulations

| | |
|--|---|
| Standards/specifications | M12 connector 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 |
| 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) |

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Technical data

Cable

| | |
|---------------------------------|--|
| 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 |
| 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) |

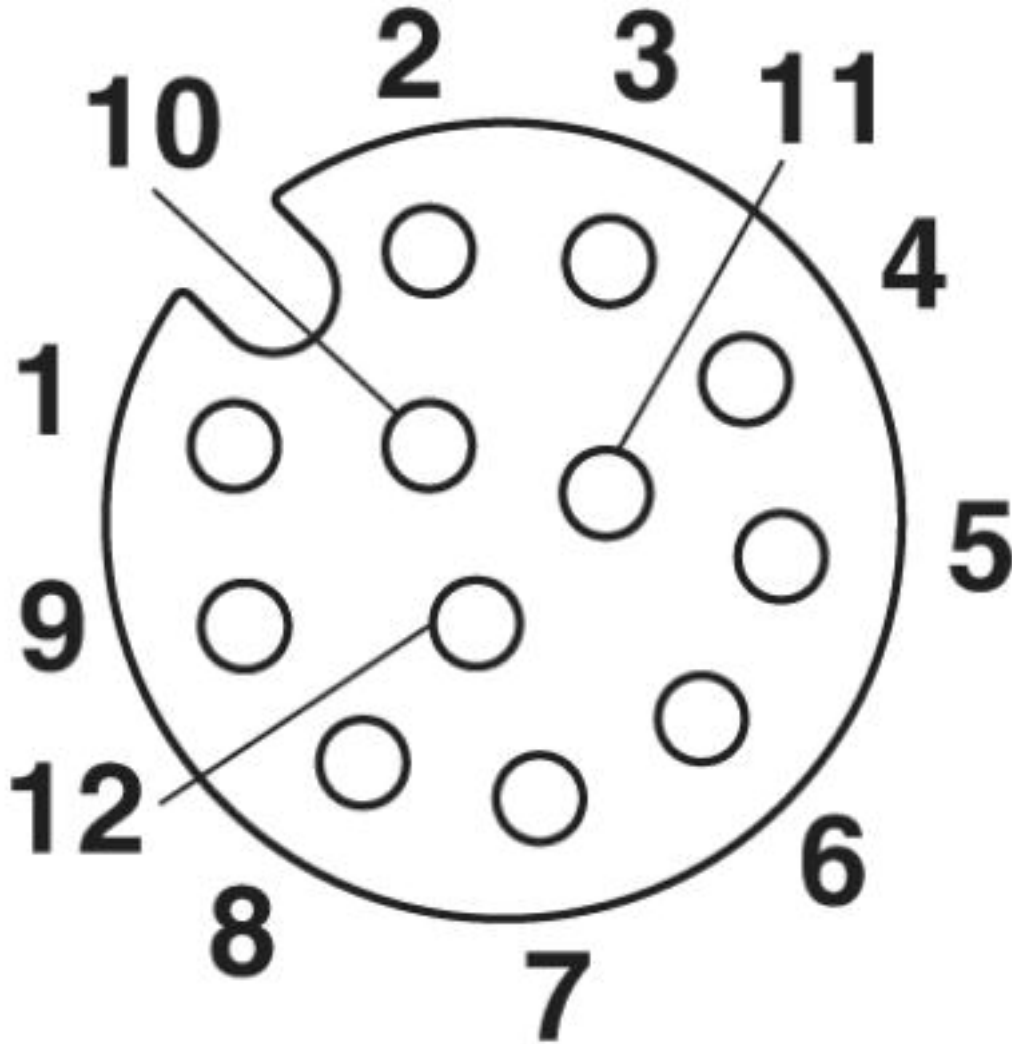
Environmental Product Compliance

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

Drawings

Sensor/actuator cable - SAC-12P-MS/ 0,3-35T/FS SH SCO - 1419573

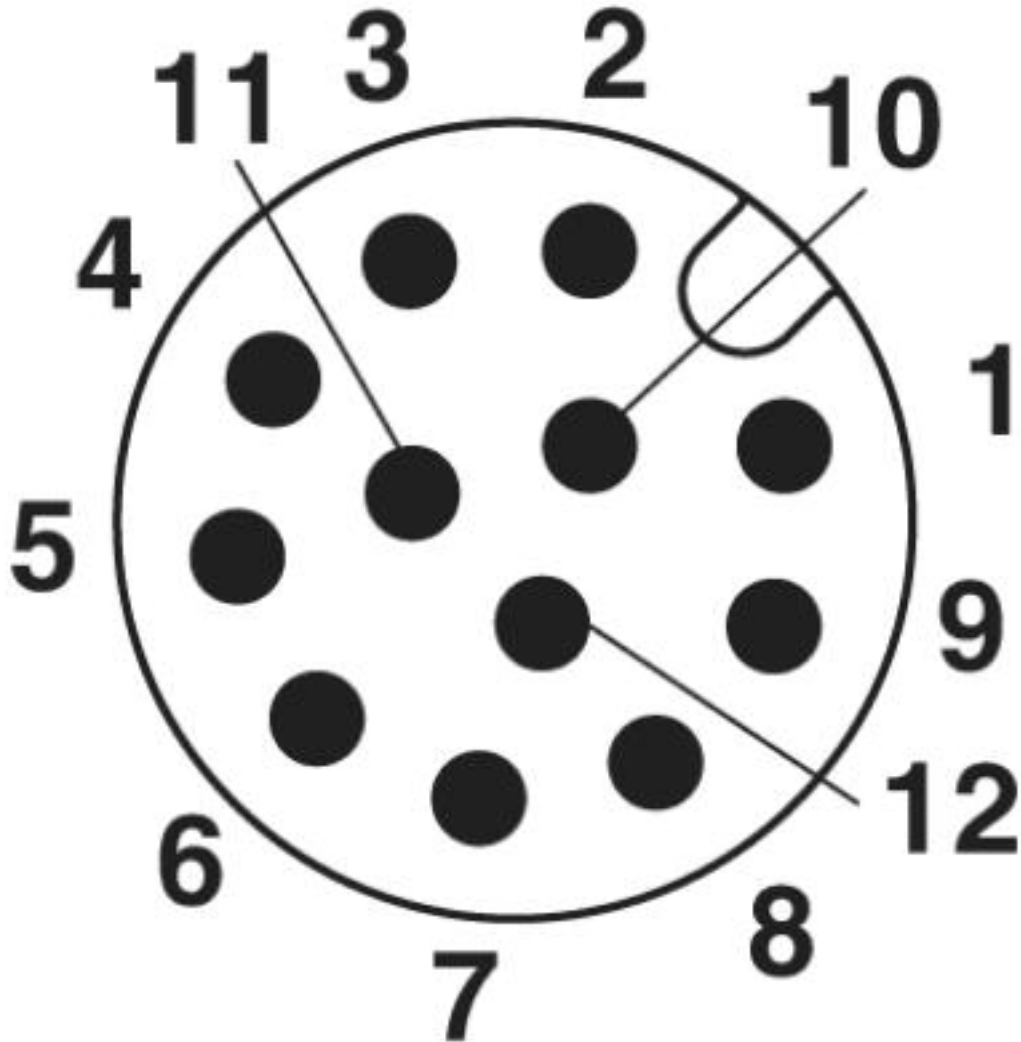
Schematic diagram



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

Sensor/actuator cable - SAC-12P-MS/ 0,3-35T/FS SH SCO - 1419573

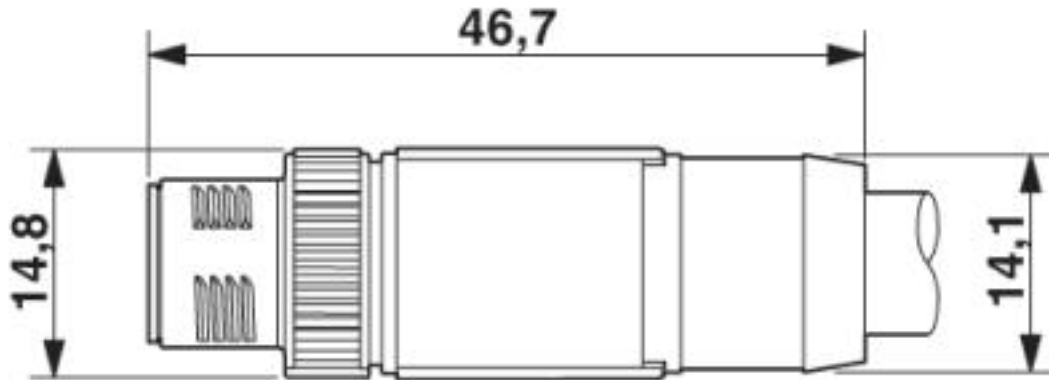
Schematic diagram



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

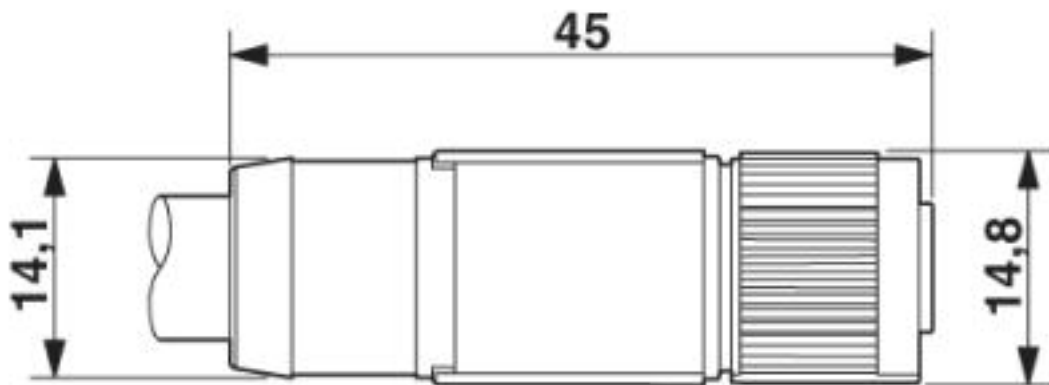
Sensor/actuator cable - SAC-12P-MS/ 0,3-35T/FS SH SCO - 1419573

Dimensional drawing



M12 SPEEDCON plug, straight, shielded

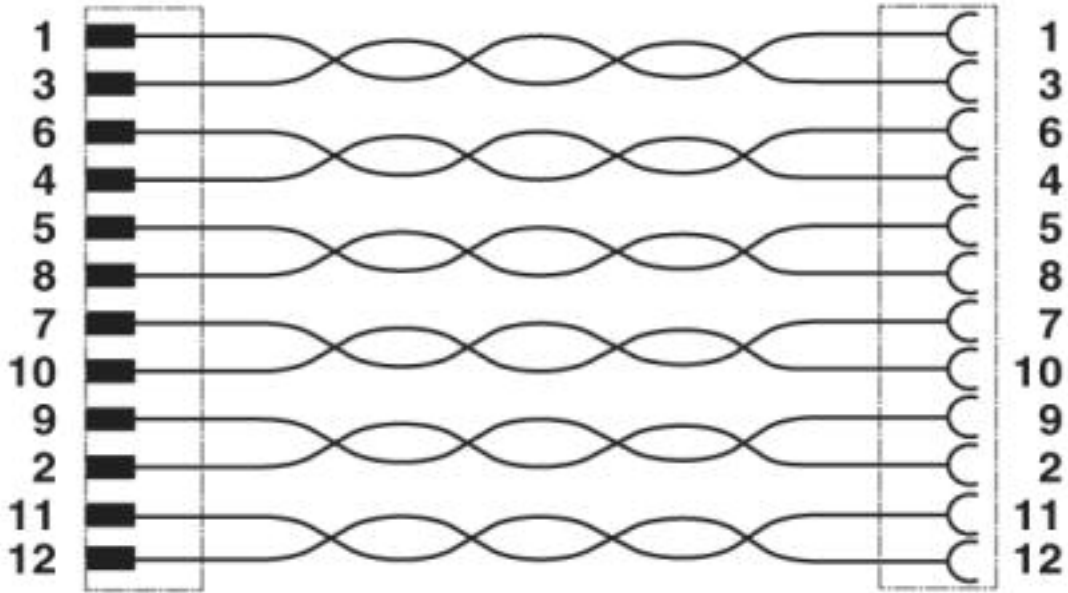
Dimensional drawing



Socket M12-SPEEDCON, straight, shielded

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Circuit diagram



Contact assignment of the M12 plug and the M23 socket

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Cable cross section



Black PUR/PVC twisted pair [35T]

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27060311 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 7.0 | EC001855 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 31251501 |
| UNSPSC 19.0 | 31251501 |
| UNSPSC 20.0 | 31251501 |
| UNSPSC 21.0 | 31251501 |

Approvals

Approvals

Approvals

UL Listed

Ex Approvals

Approval details

| | | | |
|--------------------|------|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 221474 |
| Nominal voltage UN | 30 V | | |
| Nominal current IN | 1 A | | |

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