

## 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, A-coded, on Socket straight M12 SPEEDCON, A-coded, cable length: 0.3 m



### Key Commercial Data

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Packing unit           | 1 pc                                                                                                  |
| Minimum order quantity | 50 pc                                                                                                 |
| GTIN                   | <br>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

|                                        |                                                             |
|----------------------------------------|-------------------------------------------------------------|
| 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 <sup>2</sup> (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 <sup>2</sup>                                                              |
| 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)                                                            |

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### Technical data

#### Cable

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

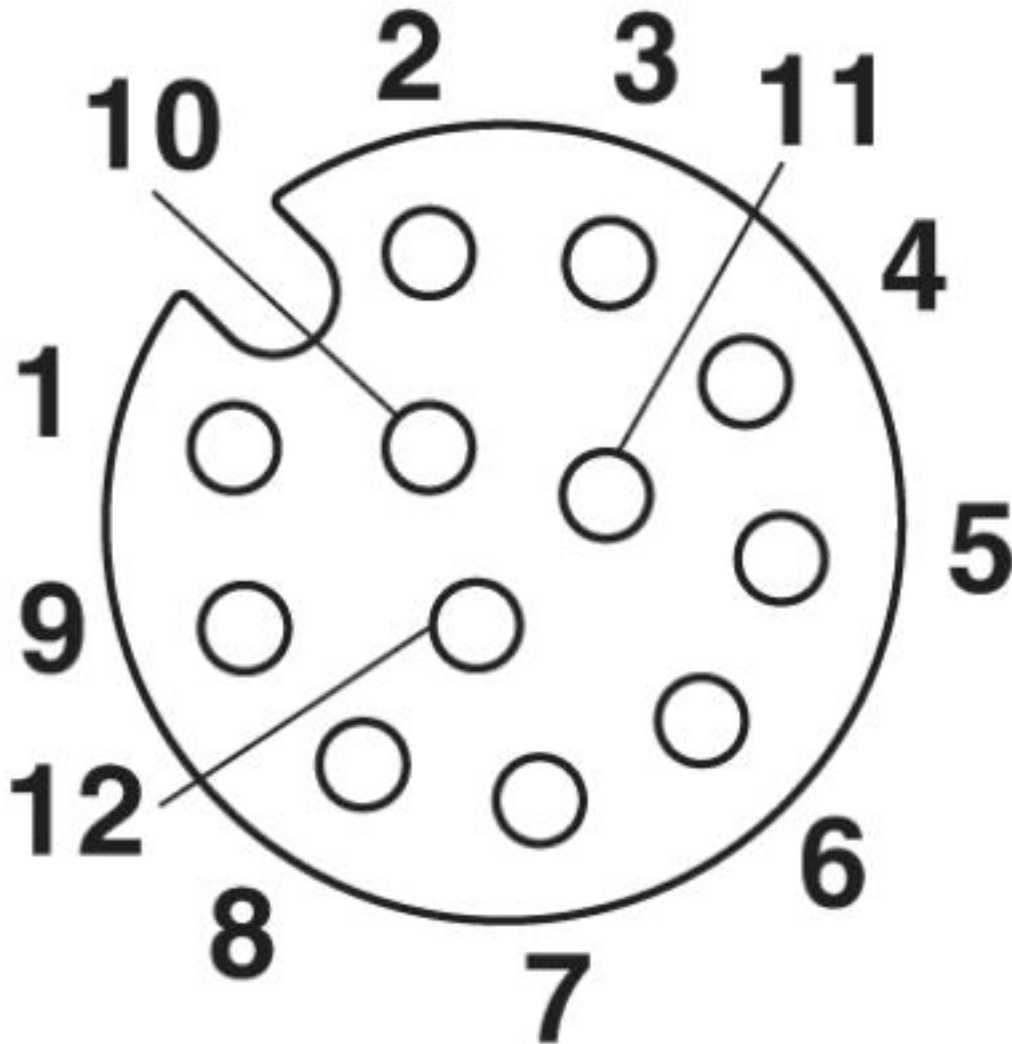
#### Environmental Product Compliance

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

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

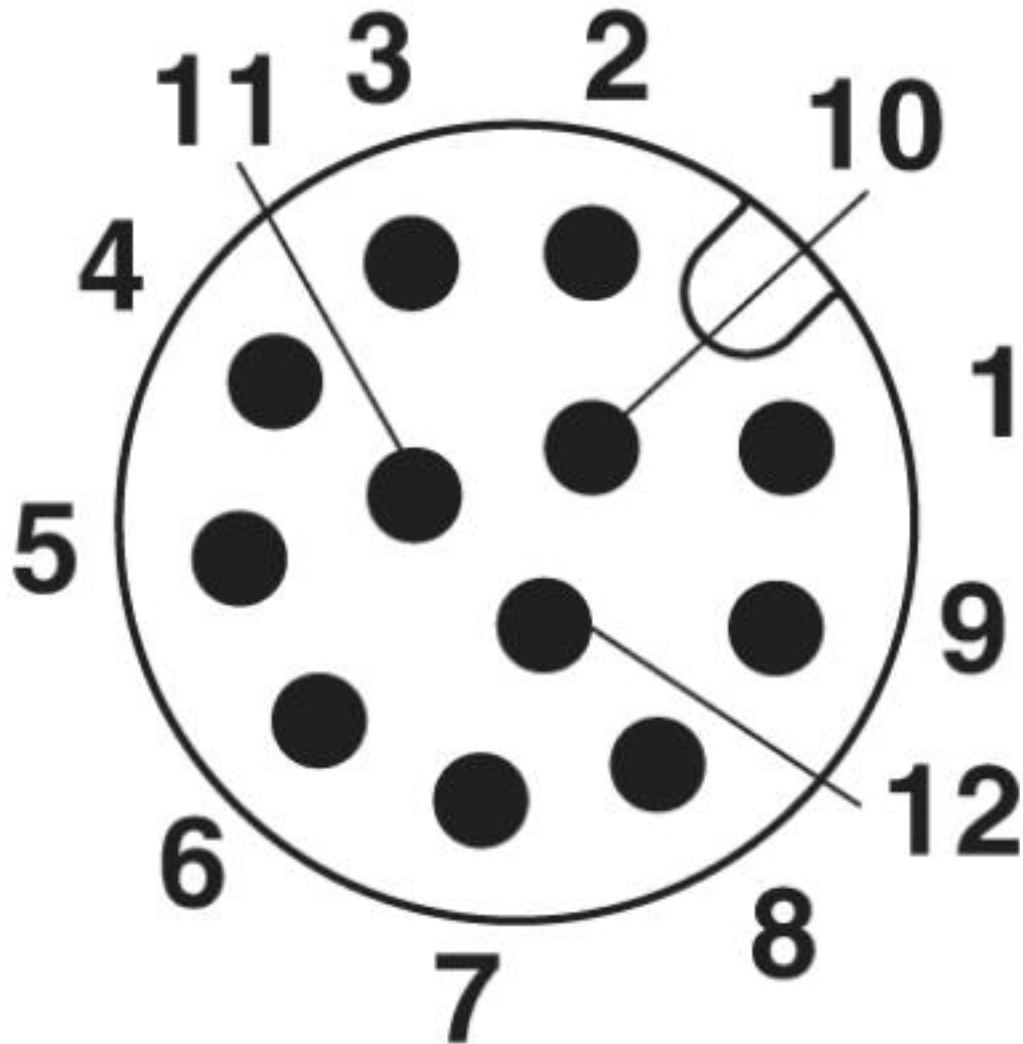
Schematic diagram



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

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

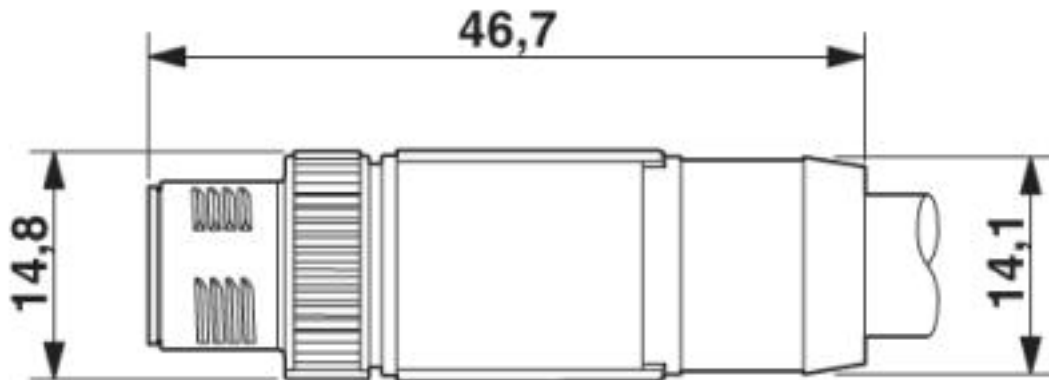
Schematic diagram



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

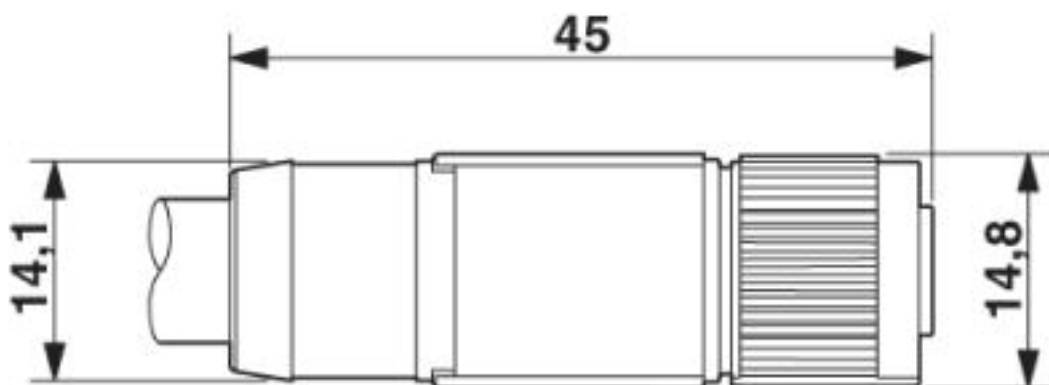
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Dimensional drawing



M12 SPEEDCON plug, straight, shielded

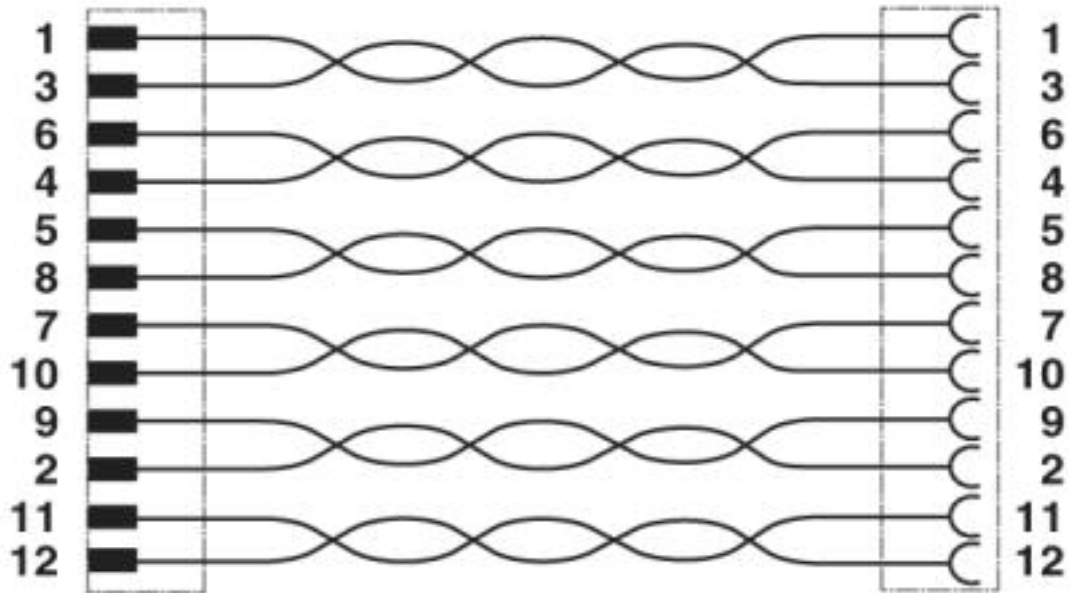
Dimensional drawing



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]

### Approvals

Approvals

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Approvals

UL Listed

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Ex Approvals

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Approval details



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### Approvals

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

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