

# SAC-3P-FR SCO/.../... - Sensor/actuator cable



1536492

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Sensor/actuator cable, 3-position, Variable cable type, free cable end, on Socket angled M12 SPEEDCON, coding: A, cable length: Free input (0.2 ... 40.0 m)

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Save time, thanks to installation with SPEEDCON fast locking system
- Flexible solutions - configurable materials with variable cable types and cable lengths

## Commercial data

|                       |                                |
|-----------------------|--------------------------------|
| Item number           | 1536492                        |
| Packing unit          | 1 pc                           |
| Note                  | Made to order (non-returnable) |
| Sales key             | BF03                           |
| Product key           | AF1CBA                         |
| Customs tariff number | 85444290                       |
| Country of origin     | PL                             |

# SAC-3P-FR SCO/.../... - Sensor/actuator cable



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## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Application          | Standard              |
| Number of positions  | 3                     |
| No. of cable outlets | 1                     |
| Shielded             | no                    |
| 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 $U_N$ | 250 V AC                   |
|                       | 250 V DC                   |
| Nominal current $I_N$ | 4 A                        |
| Test voltage          | 2500 V                     |

### Mechanical properties

#### Mechanical data

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

### Signaling

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

### Connection data

#### Conductor connection

|                   |                        |
|-------------------|------------------------|
| Tightening torque | 0.4 Nm (M12 connector) |
|-------------------|------------------------|

### Connector

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## Connection 1

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

## Connection 2

|                     |                            |
|---------------------|----------------------------|
| Type                | Socket angled M12 SPEEDCON |
| Number of positions | 3                          |
| Locking type        | SPEEDCON                   |
| Coding type         | A                          |

## Cable/line

|              |                             |
|--------------|-----------------------------|
| Cable length | Free input (0.2 ... 40.0 m) |
|--------------|-----------------------------|

### PUR halogen-free black [PUR]

|   |   |
|---|---|
| Cable weight                                  | 23 kg/km  |
| UL AWM Style                                  | 20549   |
| Number of positions                           | 3   |
| Shielded                                      | no  |
| Cable type                                    | PUR halogen-free black [PUR]<br>PUR halogen-free black PUR  |
| Conductor structure signal line               | 42x 0.10 mm   |
| AWG signal line                               | 22  |
| Conductor cross-section                       | 3x 0.34 mm <sup>2</sup> (Signal line)   |
| Wire diameter incl. insulation                | 1.27 mm ±0.02 mm (Signal line)  |
| External cable diameter                       | 3.85 mm ±0.15 mm  |
| Outer sheath, material                        | PUR   |
| External sheath, color                        | black-gray RAL 7021   |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | PP  |
| Single wire, color                            | brown, blue, black  |
| Thickness, insulation                         | ≥ 0.21 mm (Core insulation)<br>approx. 0.50 mm (Outer cable sheath)   |
| Overall twist                                 | 3 wires, twisted  |
| Max. conductor resistance                     | max. 58 Ω/km (at 20 °C)   |
| Insulation resistance                         | ≥ 100 GΩ*km (at 20 °C)  |
| Nominal voltage, cable                        | ≤ 300 V   |
| Test voltage                                  | ≥ 3000 V  |
| Smallest bending radius, fixed installation   | 19 mm   |
| Smallest bending radius, movable installation | 38 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 10000000, Bending radius: 38 mm,<br>Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup> |
| Dynamic load capacity (torsion)               | Torsion: ±180 °/m, Torsion cycles: ≥5000000, Torsional frequency: 35 cycles/min.  |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815  |
| Flame resistance                              | in accordance with UL 758/1581 FT2  |

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|                                 |   |
|---------------------------------|---|
|                                 | DIN EN 60332-2-2 (20 s)   |
| Resistance to oil               | in accordance with DIN EN 60811-2-1                                 |
| Other resistance                | Highly resistant to acids, alkaline solutions and solvents          |
|                                 | hydrolysis and microbe resistant                                    |
|                                 | partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)        |
| Special properties              | Flexible cable conduit capable                                      |
|                                 | Silicone-free   |
|                                 | Free of substances which would hinder coating with paint or varnish |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)                        |
|                                 | -25 °C ... 80 °C (Cable, flexible installation)                     |

## PUR/PVC orange [110]

|   |   |
|---|---|
| Cable weight                                  | 37 kg/km  |
| Number of positions                           | 3   |
| Shielded                                      | no  |
| Cable type                                    | PUR/PVC orange [110]  |
|   | PUR/PVC orange 110  |
| Conductor structure signal line               | 42x 0.10 mm   |
| AWG signal line                               | 22  |
| Conductor cross-section                       | 0.34 mm <sup>2</sup>  |
| Wire diameter incl. insulation                | 1.52 mm ±0.02 mm  |
| External cable diameter                       | 5.2 mm  |
|   | 5.20 mm   |
| Outer sheath, material                        | PUR   |
| External sheath, color                        | orange RAL 2003   |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | PVC   |
| Single wire, color                            | brown, blue, black  |
| Thickness, insulation                         | ≥ 0.23 mm (Core insulation)   |
|   | ≥ 0.38 mm (Outer cable sheath)  |
|   | approx. 0.45 mm (Inner sheath)  |
| Overall twist                                 | 3 wires, twisted  |
| Max. conductor resistance                     | max. 57.3 Ω/km  |
| Insulation resistance                         | ≥ 100 MΩ*km   |
| Nominal voltage, cable                        | 300 V   |
| Test voltage                                  | 2500 V  |
| Smallest bending radius, fixed installation   | 52 mm   |
| Smallest bending radius, movable installation | 52 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 2000000, Bending radius: 52 mm, Traversing path: 5 m, Traversing rate: 3 m/s |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)  |
|   | -5 °C ... 80 °C (Cable, flexible installation)  |

## PUR/PVC yellow [140]

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|   |   |
|---|---|
| Cable weight                                  | 37 kg/km  |
| Number of positions                           | 3   |
| Shielded                                      | no  |
| Cable type                                    | PUR/PVC yellow [140]<br>PUR/PVC yellow 140  |
| Conductor structure signal line               | 42x 0.10 mm   |
| AWG signal line                               | 22  |
| Conductor cross-section                       | 0.34 mm <sup>2</sup>  |
| Wire diameter incl. insulation                | 1.52 mm ±0.02 mm  |
| 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                      | PVC   |
| Single wire, color                            | brown, blue, black  |
| Thickness, insulation                         | ≥ 0.23 mm (Core insulation)<br>≥ 0.38 mm (Outer cable sheath)<br>approx. 0.45 mm (Inner sheath)   |
| Overall twist                                 | 3 wires, twisted  |
| Max. conductor resistance                     | max. 57.3 Ω/km (at 20 °C)   |
| Insulation resistance                         | ≥ 100 MΩ*km (at 20 °C)  |
| Nominal voltage, cable                        | 300 V   |
| Test voltage                                  | 2500 V  |
| Smallest bending radius, fixed installation   | 52 mm   |
| Smallest bending radius, movable installation | 52 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 2000000, Bending radius: 52 mm, Traversing path: 5 m, Traversing rate: 3 m/s |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)<br>-5 °C ... 80 °C (Cable, flexible installation)    |

## PUR irradiated halogen-free orange [150]

|                                 |  |
|---------------------------------|--|
| Number of positions             | 3  |
| Shielded                        | no   |
| Cable type                      | PUR irradiated halogen-free orange [150]<br>PUR irradiated halogen-free orange 150 |
| Conductor structure signal line | 42x 0.10 mm  |
| AWG signal line                 | 22   |
| Conductor cross-section         | 3x 0.34 mm <sup>2</sup> (Signal line)  |
| Wire diameter incl. insulation  | 1.05 mm ±0.05 mm (Signal line)   |
| External cable diameter         | 4.40 mm ±0.2 mm  |
| Outer sheath, material          | PUR  |
| External sheath, color          | orange RAL 2003  |
| Conductor material              | Bare Cu litz wires   |
| Material wire insulation        | PE   |

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|   |   |
|---|---|
| Single wire, color                            | brown, blue, black  |
| Overall twist                                 | 3 wires, twisted  |
| Max. conductor resistance                     | max. 57 Ω/km  |
| Nominal voltage, cable                        | 250 V (AC)  |
| Test voltage                                  | 2000 V (50 Hz, 5 minutes)   |
| Smallest bending radius, fixed installation   | 13.5 mm   |
| Smallest bending radius, movable installation | 53 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000000, Bending radius: 44 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup> |
| Flame resistance                              | according to DIN VDE 0472 Part 804  |
| Other resistance                              | UV resistant  |
| Special properties                            | Silicone-free   |
|   | Irradiated  |
| Ambient temperature (operation)               | -50 °C ... 105 °C (cable, fixed installation)   |
|   | -40 °C ... 105 °C (Cable, flexible installation)  |

## PUR halogen-free gray [280]

|                                 |  |
|---------------------------------|--|
| Cable weight                    | 26 kg/km   |
| UL AWM Style                    | 20549  |
| Number of positions             | 3  |
| Shielded                        | no   |
| Cable type                      | PUR halogen-free gray [280]  |
|                                 | PUR halogen-free gray 280  |
| Conductor structure signal line | 42x 0.10 mm  |
| AWG signal line                 | 22   |
| Conductor cross-section         | 0.34 mm <sup>2</sup>   |
| Wire diameter incl. insulation  | 1.27 mm ±0.02 mm   |
| External cable diameter         | 4.40 mm ±0.15 mm   |
| Outer sheath, material          | PUR  |
| External sheath, color          | gray RAL 7001  |
| Conductor material              | Bare Cu litz wires   |
| Material wire insulation        | TPE  |
| Single wire, color              | brown, blue, black   |
| Thickness, insulation           | 0.21 mm (Core insulation)  |
|                                 | approx. 0.80 mm (Outer cable sheath)   |
| Overall twist                   | 3 wires, twisted   |
| Max. conductor resistance       | max. 58 Ω/km (at 20 °C)  |
| Insulation resistance           | ≥ 10 GΩ*km (at 20 °C)  |
| Nominal voltage, cable          | ≤ 300 V  |
| Test voltage                    | ≥ 3000 V   |
| Dynamic load capacity (bending) | Max. bending cycles: 10000000  |
| Dynamic load capacity (torsion) | Torsion: ±180 °/m, Torsion cycles: ≥5000000, Torsional frequency: 35 cycles/min. |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815   |

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|   |   |
|---|---|
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)  |
| PVC black [PVC]                               |   |
| Cable weight                                  | 40 kg/km  |
| UL AWM Style                                  | 2464 / 1729 (80°C/300 V)  |
| Number of positions                           | 3   |
| Shielded                                      | no  |
| Cable type                                    | PVC black [PVC]<br>PVC black PVC  |
| Conductor structure signal line               | 19x 0.15 mm   |
| AWG signal line                               | 22  |
| Conductor cross-section                       | 3x 0.34 mm <sup>2</sup> (Signal line)   |
| Wire diameter incl. insulation                | 1.26 mm ±0.05 mm  |
| External cable diameter                       | 4.30 mm ±0.2 mm   |
| Outer sheath, material                        | PVC   |
| External sheath, color                        | black RAL 9005  |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | PVC   |
| Single wire, color                            | brown, blue, black  |
| Thickness, insulation                         | ≥ 0.23 mm (Core insulation)   |
| Thickness, outer sheath                       | ≥ 0.76 mm   |
| Overall twist                                 | 3 wires, twisted  |
| Max. conductor resistance                     | max. 57 Ω/km (at 20 °C)   |
| Insulation resistance                         | ≥ 100 MΩ*km (at 20 °C)  |
| Nominal voltage, cable                        | ≤ 300 V   |
| Test voltage                                  | ≥ 2500 V  |
| Minimum bending radius, fixed installation    | 5 x D   |
| Minimum bending radius, flexible installation | 10 x D  |
| Smallest bending radius, fixed installation   | 22 mm   |
| Smallest bending radius, movable installation | 43 mm   |
| Flame resistance                              | As per UL-Style 2464  |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)<br>-10 °C ... 80 °C (Cable, flexible installation) |

## PVC gray [500]

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Cable weight                    | 40 kg/km                              |
| UL AWM Style                    | 2464 / 1729 (80°C/300 V)              |
| Number of positions             | 3                                     |
| Shielded                        | no                                    |
| Cable type                      | PVC gray [500]<br>PVC gray 500        |
| Conductor structure signal line | 19x 0.15 mm                           |
| AWG signal line                 | 22                                    |
| Conductor cross-section         | 3x 0.34 mm <sup>2</sup> (Signal line) |
| Wire diameter incl. insulation  | 1.26 mm ±0.05 mm                      |

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|   |   |
|---|---|
| External cable diameter                       | 4.30 mm ±0.2 mm   |
| Outer sheath, material                        | PVC   |
| External sheath, color                        | gray RAL 7001   |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | PVC   |
| Single wire, color                            | brown, blue, black  |
| Thickness, insulation                         | ≥ 0.23 mm (Core insulation)   |
| Thickness, outer sheath                       | ≥ 0.76 mm   |
| Overall twist                                 | 3 wires, twisted  |
| Max. conductor resistance                     | max. 57 Ω/km (at 20 °C)   |
| Insulation resistance                         | ≥ 100 MΩ*km (at 20 °C)  |
| Nominal voltage, cable                        | ≤ 300 V   |
| Test voltage                                  | ≥ 2500 V  |
| Minimum bending radius, fixed installation    | 5 x D   |
| Minimum bending radius, flexible installation | 10 x D  |
| Smallest bending radius, fixed installation   | 22 mm   |
| Smallest bending radius, movable installation | 43 mm   |
| Flame resistance                              | As per UL-Style 2464  |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)<br>-25 °C ... 80 °C (Cable, flexible installation) |

## PVC yellow [540]

|                                 |   |
|---------------------------------|---|
| Cable weight                    | 40 kg/km  |
| Number of positions             | 3   |
| Shielded                        | no  |
| Cable type                      | PVC yellow [540]<br>PVC yellow 540                            |
| Conductor structure signal line | 42x 0.10 mm   |
| AWG signal line                 | 22  |
| Conductor cross-section         | 0.34 mm <sup>2</sup>  |
| Wire diameter incl. insulation  | 1.45 mm ±0.05 mm  |
| External cable diameter         | 5.20 mm ±0.2 mm   |
| Outer sheath, material          | PVC   |
| External sheath, color          | yellow  |
| Conductor material              | Bare Cu litz wires  |
| Material wire insulation        | PVC   |
| Single wire, color              | brown, blue, black  |
| Thickness, insulation           | ≥ 0.23 mm (Core insulation)<br>≥ 0.76 mm (Outer cable sheath) |
| Overall twist                   | 3 wires, twisted  |
| Max. conductor resistance       | max. 58 Ω/km (at 20 °C)                                       |
| Insulation resistance           | ≥ 1 GΩ*km (at 20 °C)  |
| Nominal voltage, cable          | ≤ 300 V   |
| Test voltage                    | ≥ 3000 V  |

# SAC-3P-FR SCO/.../... - Sensor/actuator cable



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|                                 |  |
|---------------------------------|--|
| Flame resistance                | As per UL-Style 2464                           |
| Ambient temperature (operation) | -25 °C ... 80 °C (cable, fixed installation)   |
|                                 | -5 °C ... 80 °C (Cable, flexible installation) |

## PVC yellow 105 °C [542]

|                                 |   |
|---------------------------------|---|
| Cable weight                    | 38 kg/km  |
| Number of positions             | 3   |
| Shielded                        | no  |
| Cable type                      | PVC yellow 105 °C [542]                         |
|                                 | PVC yellow 105 °C 542                           |
| Conductor structure signal line | 42x 0.10 mm                                     |
| AWG signal line                 | 22  |
| Conductor cross-section         | 0.34 mm <sup>2</sup>                            |
| Wire diameter incl. insulation  | 1.55 mm ±0.05 mm                                |
| External cable diameter         | 5.20 mm ±0.2 mm                                 |
| Outer sheath, material          | PVC   |
| External sheath, color          | yellow  |
| Conductor material              | Bare Cu litz wires                              |
| Material wire insulation        | PVC   |
| Single wire, color              | brown, blue, black                              |
| Thickness, insulation           | ≥ 0.38 mm (Core insulation)                     |
|                                 | ≥ 0.76 mm (Outer cable sheath)                  |
| Overall twist                   | 3 wires, twisted                                |
| Max. conductor resistance       | max. 58 Ω/km (at 20 °C)                         |
| Insulation resistance           | ≥ 100 MΩ*km (at 20 °C)                          |
| Nominal voltage, cable          | 300 V   |
| Test voltage                    | 4000 V  |
| Flame resistance                | according to DIN 50265-2-1                      |
| Ambient temperature (operation) | -25 °C ... 105 °C (cable, fixed installation)   |
|                                 | -5 °C ... 105 °C (Cable, flexible installation) |

## Gray, highly flexible PUR [800]

|                                 |  |
|---------------------------------|--|
| Note                            | Due to the extremely robust outer sheath, this cable should only be stripped in 5 cm increments. |
| Cable weight                    | 28.3 kg/km   |
| UL AWM Style                    | 20549  |
| Number of positions             | 3  |
| Shielded                        | no   |
| Cable type                      | Gray, highly flexible PUR [800]  |
|                                 | Gray, highly flexible PUR 800  |
| Conductor structure signal line | 42x 0.10 mm  |
| AWG signal line                 | 22   |
| Conductor cross-section         | 3x 0.34 mm <sup>2</sup> (Signal line)  |
| Wire diameter incl. insulation  | 1.3 mm ±0.05 mm (Signal line)  |
| External cable diameter         | 4.50 mm ±0.2 mm  |

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|   |   |
|---|---|
| Outer sheath, material                        | PUR   |
| External sheath, color                        | gray RAL 7001   |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | PP  |
| Single wire, color                            | brown, blue, black  |
| Overall twist                                 | 3 wires, twisted  |
| Max. conductor resistance                     | approx. 53 Ω/km   |
| Insulation resistance                         | ≥ 20 MΩ*km  |
| Nominal voltage, cable                        | 300 V   |
| Test voltage                                  | 2000 V  |
| Minimum bending radius, fixed installation    | 4 x D   |
| Minimum bending radius, flexible installation | 7.5 x D   |
| Smallest bending radius, fixed installation   | 18 mm   |
| Smallest bending radius, movable installation | 34 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 10000000, Bending radius: 7,5 x D, Traversing path: 5 m, Traversing rate: 3.3 m/s, Acceleration: 5 m/s <sup>2</sup><br>Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s <sup>2</sup> |
| Dynamic load capacity (torsion)               | Torsion: ±360 °/m, Torsion cycles: 1000000, Torsional frequency: 35 cycles/min.   |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815  |
| Flame resistance                              | in accordance with UL 758/1581 FT2  |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1   |
| Other resistance                              | Highly resistant to acids, alkaline solutions and solvents<br>Silicone-free   |
| Special properties                            | Cable jacket is welding spark-resistant, recyclable, matt, low-adhesion, abrasion-resistant, flame-retardant, and self-extinguishing<br>Free from silicone and cadmium<br>Free of substances which would hinder coating with paint or varnish                                       |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)<br>-25 °C ... 80 °C (Cable, flexible installation)   |

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

|                      |               |
|----------------------|---------------|
| Standard designation | M12 connector |
|----------------------|---------------|

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Standards/specifications

IEC 61076-2-101

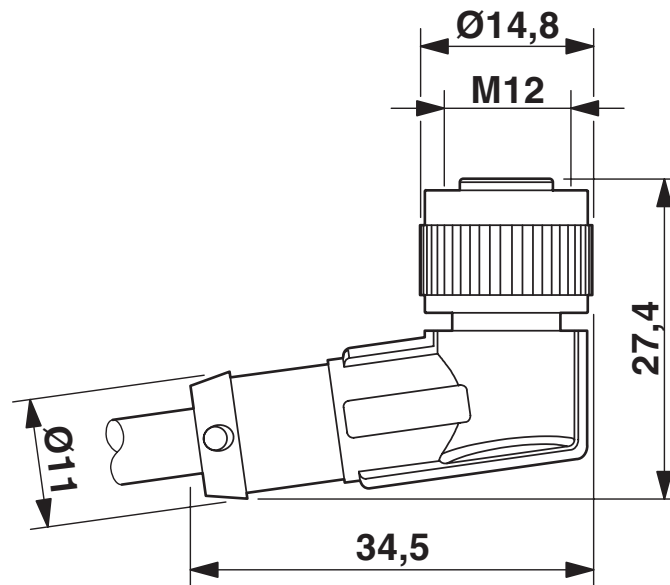
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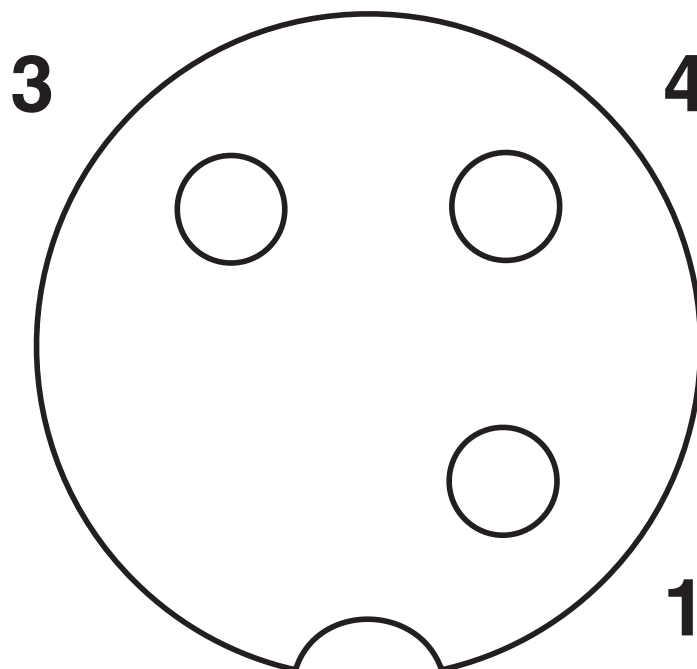
## Drawings

Dimensional drawing



M12 x 1 socket, angled

Schematic diagram



Pin assignment M12 socket, 3-pos., A-coded, view female side

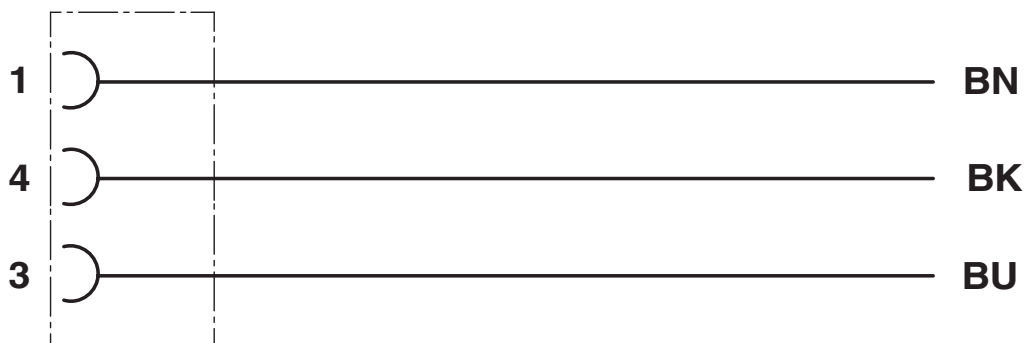
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Circuit diagram



Contact assignment of the M12 socket

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## Classifications

### ECLASS

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

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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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