

# SAC-4P-M12MR/ 3,0-CEI/M12FR GY - Sensor/actuator cable



1562916

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Sensor/actuator cable, 4-position, PVC, gray RAL 7035, Plug angled M12, coding: A, on Socket angled M12, coding: A, cable length: 3 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1562916       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1CCA        |
| GTIN                                 | 4046356300537 |
| Weight per piece (including packing) | 159.27 g      |
| Weight per piece (excluding packing) | 139.27 g      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Number of positions  | 4                     |
| No. of cable outlets | 1                     |
| 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 | $\geq 10 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 250 V AC<br>250 V DC      |
| Nominal current $I_N$ | 4 A                       |

### Mechanical properties

#### Mechanical data

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

### Signaling

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

### Connector

#### Connection 1

|                     |                 |
|---------------------|-----------------|
| Type                | Plug angled M12 |
| Number of positions | 4               |
| Coding type         | A               |

#### Connection 2

|                     |                   |
|---------------------|-------------------|
| Type                | Socket angled M12 |
| Number of positions | 4                 |

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|             |   |
|-------------|---|
| Coding type | A |
|-------------|---|

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 3 m |
|--------------|-----|

## PVC gray [CEI]

|                                             |                                                                                                                                 |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Number of positions                         | 4                                                                                                                               |
| Shielded                                    | no                                                                                                                              |
| Cable type                                  | PVC gray [CEI]                                                                                                                  |
| Conductor structure signal line             | 32x 0.10 mm (VDE 0295 Class 6)                                                                                                  |
| AWG signal line                             | 24                                                                                                                              |
| Conductor cross section                     | 4x 0.25 mm <sup>2</sup>                                                                                                         |
| Wire diameter incl. insulation              | 1.4 mm ±0.05 mm                                                                                                                 |
| External cable diameter                     | 5.00 mm +0.1 mm (CEI 20/11 RZ)                                                                                                  |
| Outer sheath, material                      | PVC                                                                                                                             |
| External sheath, color                      | gray RAL 7035                                                                                                                   |
| Conductor material                          | Bare Cu litz wires                                                                                                              |
| Material wire insulation                    | PVC (CEI 20/11 R2)                                                                                                              |
| Single wire, color                          | brown, white, blue, black                                                                                                       |
| Max. conductor resistance                   | < 74 Ω/km (at 20 °C)                                                                                                            |
| Nominal voltage, cable                      | 300 V                                                                                                                           |
| Test voltage Core/Core                      | 3000 V (rms)                                                                                                                    |
| Minimum bending radius, fixed installation  | 10 x D                                                                                                                          |
| Smallest bending radius, fixed installation | 50 mm                                                                                                                           |
| Flame resistance                            | in accordance with CEI 20-22II<br>according to IEC 332-3                                                                        |
| Resistance to oil                           | in accordance with ISO 6722                                                                                                     |
| Other resistance                            | Resistance to low temperatures (acc. to EN 60811-1-4)<br>Resistance to high temperatures (in accordance with ISO 6722 (3000 h)) |
| Ambient temperature (operation)             | -25 °C ... 80 °C (cable, fixed installation)<br>-20 °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) |

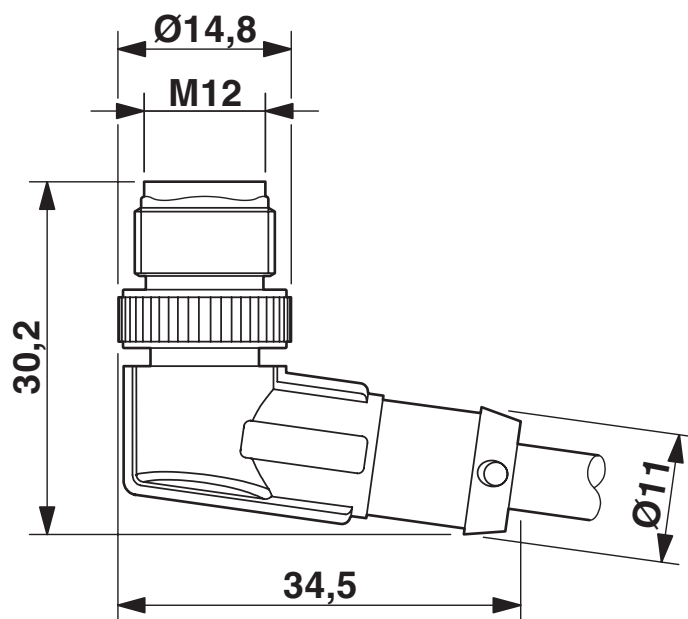
# SAC-4P-M12MR/ 3,0-CEI/M12FR GY - Sensor/actuator cable

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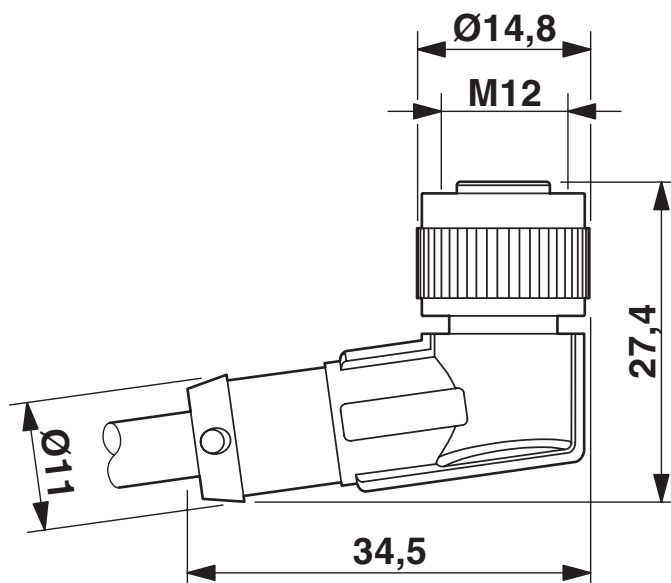
## Drawings

Dimensional drawing



M12 x 1 male plug, angled

Dimensional drawing



M12 x 1 socket, angled

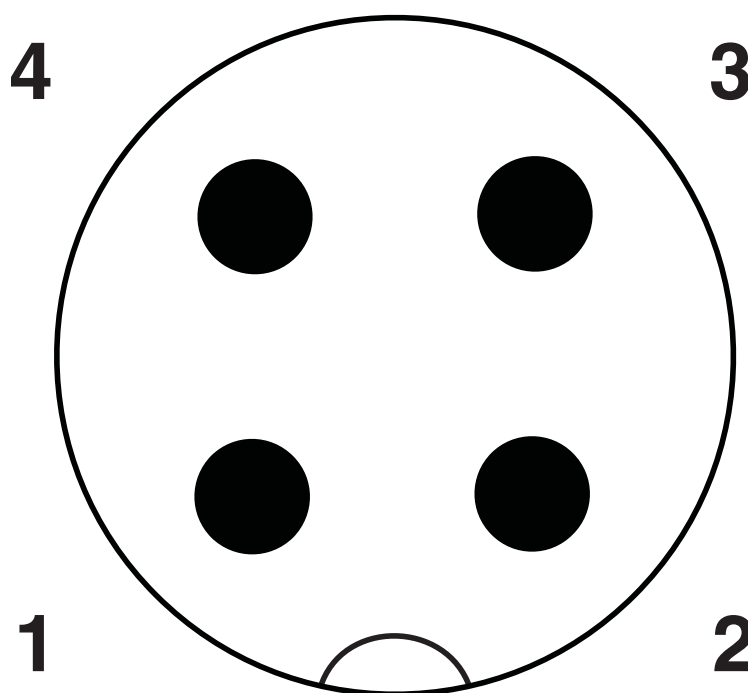
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Schematic diagram



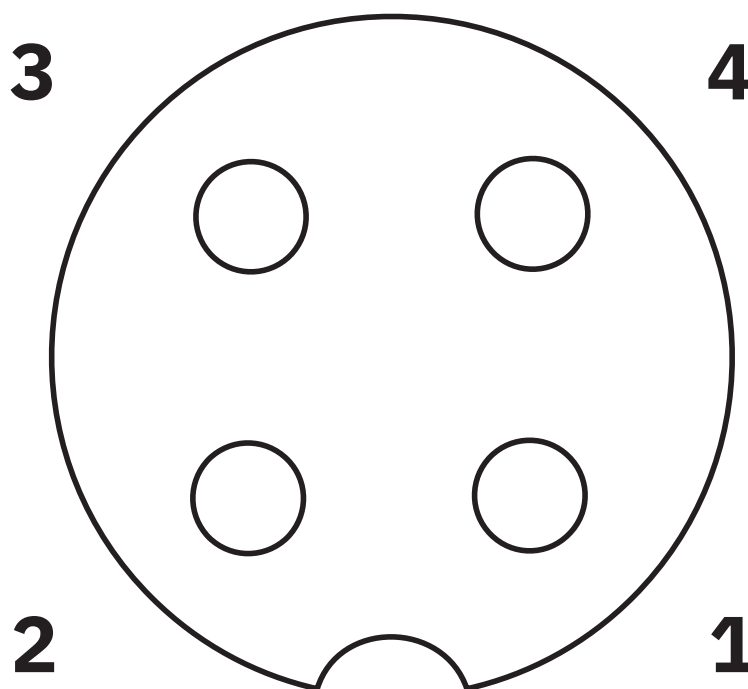
Pin assignment M12 plug, 4-pos., A-coded, view plug side

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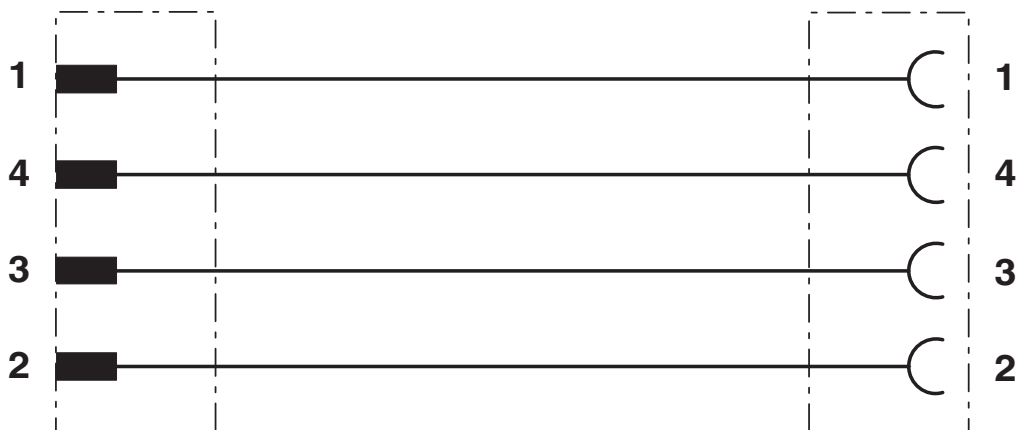
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Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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## Classifications

### ECLASS

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

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## Environmental product compliance

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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