

# SAC-3P-M12FR-2L/500/5,0 GYIN - Sensor/actuator cable



1550371

<https://www.phoenixcontact.com/us/products/1550371>

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Sensor/actuator cable, 3-position, PVC, gray RAL 7001, free cable end, on Socket angled M12, with 2 LEDs, cable length: 5 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1550371       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1CBA        |
| GTIN                                 | 4046356147224 |
| Weight per piece (including packing) | 222.22 g      |
| Weight per piece (excluding packing) | 222.22 g      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                     |                       |
|---------------------|-----------------------|
| Product type        | Sensor/actuator cable |
| Number of positions | 3                     |
| Shielded            | no                    |

### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 24 V DC |
|-----------------------|---------|

### Mechanical properties

#### Mechanical data

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

### Connector

#### Connection 1

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

#### Connection 2

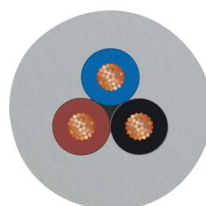
|                     |                   |
|---------------------|-------------------|
| Type                | Socket angled M12 |
| Number of positions | 3                 |

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

#### PVC gray [500]

##### Dimensional drawing



|                                 |                                       |
|---------------------------------|---------------------------------------|
| 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]                        |
| 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 $\pm$ 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)    |
|                                               | -25 °C ... 80 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|                                                                   |                                                |
|-------------------------------------------------------------------|------------------------------------------------|
| Degree of protection                                              | IP65                                           |
|                                                                   | IP67                                           |
|                                                                   | IP68                                           |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket)               |
| Ambient temperature (operation)                                   | -25 °C ... 80 °C (cable, fixed installation)   |
|                                                                   | -5 °C ... 80 °C (Cable, flexible installation) |

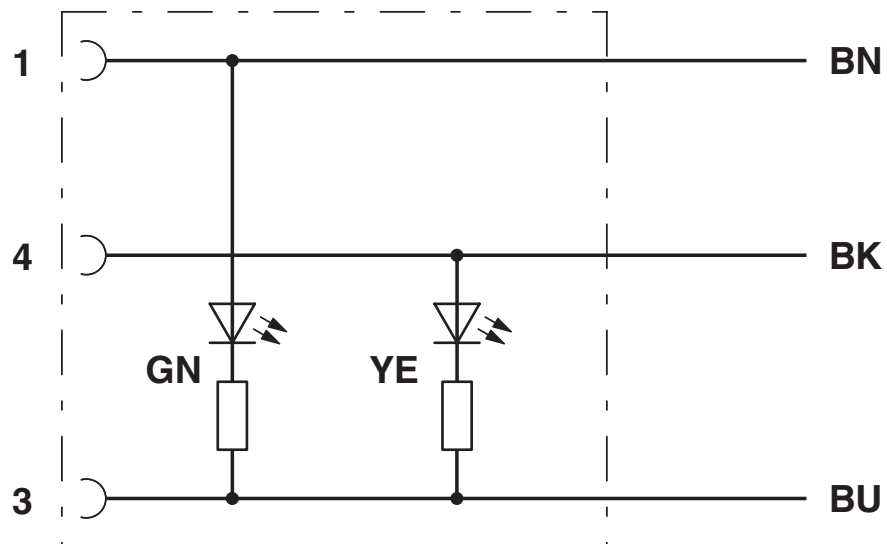
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## Drawings

Circuit diagram



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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-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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