

SAC-5P-M12MS/ 0,6-28X/M12FS OD - Sensor/actuator cable



1025203

<https://www.phoenixcontact.com/us/products/1025203>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 5-position, PE-X halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 0.6 m, for outdoor applications

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1025203 |
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| Product key | AF1CDA |
| GTIN | 4055626516912 |
| Weight per piece (including packing) | 67.3 g |
| Weight per piece (excluding packing) | 67.3 g |
| Country of origin | PL |

SAC-5P-M12MS/ 0,6-28X/M12FS OD - Sensor/actuator cable

1025203

<https://www.phoenixcontact.com/us/products/1025203>

Technical data

Product properties

| | |
|---------------------|-----------------------|
| Product type | Sensor/actuator cable |
| Number of positions | 5 |

Electrical properties

| | |
|-----------------------|---------|
| Nominal voltage U_N | 48 V AC |
| | 60 V DC |

Connector

Connection 1

| | |
|---------------------|-------------------|
| Type | Plug straight M12 |
| Number of positions | 5 |
| Coding type | A |

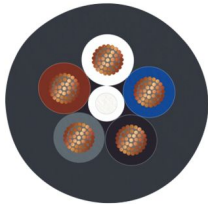
Connection 2

| | |
|---------------------|---------------------|
| Type | Socket straight M12 |
| Number of positions | 5 |
| Coding type | A |

Cable/line

| | |
|--------------|-------|
| Cable length | 0.6 m |
|--------------|-------|

PE-X black [28X]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Cable weight | 70 kg/km |
| Number of positions | 5 |
| Shielded | no |
| Cable type | PE-X black [28X] |
| Conductor structure signal line | 28x 0.15 mm |
| AWG signal line | 20 |
| Conductor cross-section | 5x 0.5 mm ² |
| Wire diameter incl. insulation | 1.6 mm ±0.05 mm |
| External cable diameter | 6.80 mm ±0.2 mm |
| Outer sheath, material | PE-X |
| External sheath, color | black-gray RAL 7021 |

SAC-5P-M12MS/ 0,6-28X/M12FS OD - Sensor/actuator cable



1025203

<https://www.phoenixcontact.com/us/products/1025203>

| | |
|---|--|
| Conductor material | Bare Cu litz wires |
| Material, filler | PP yarn |
| Material wire insulation | PE-X |
| Single wire, color | brown, white, blue, black, gray |
| Thickness, insulation | approx. 0.30 mm (Core insulation) |
| Thickness, outer sheath | approx. 1.25 mm |
| Overall twist | 5 wires around filler to the core |
| Length of twist, overall twist | 68 mm |
| Max. conductor resistance | ≤ 39 Ω/m (at 20 °C) |
| Insulation resistance | ≥ 100 MΩ*km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V AC |
| Test voltage | ≥ 3000 V AC (Spark test) |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 34 mm |
| Smallest bending radius, movable installation | 68 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 2000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ² |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| | in accordance with DIN EN 50267-2-1 |
| Flame resistance | According to DIN EN 60332-1-2 |
| | according to DIN EN 50266-2-5 |
| | according to IEC 60332-3-25 (bunched fire test) |
| Resistance to oil | According to DIN EN 60811-2-1, 168 h at 100°C |
| | According to DIN EN 50306 |
| Other resistance | Resistance to fuels (according to IEC 60811, 168 h at 70°C) |
| | UV resistant (according to DIN VDE 0276-605) |
| Special properties | Irradiated |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation) |
| | -15 °C ... 105 °C (Cable, flexible installation) |
| | 20 °C ±5 °C (cable, drag chain applications) |

SAC-5P-M12MS/ 0,6-28X/M12FS OD - Sensor/actuator cable



1025203

<https://www.phoenixcontact.com/us/products/1025203>

Classifications

ECLASS

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

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 31251501 |
|-------------|----------|

SAC-5P-M12MS/ 0,6-28X/M12FS OD - Sensor/actuator cable



1025203

<https://www.phoenixcontact.com/us/products/1025203>

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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com