# SAC-4P-M12MS/20,0-28X SH OD - Sensor/actuator cable

1091379

https://www.phoenixcontact.com/pc/products/1091379

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, 4-position, PE-X/PE-X halogen-free, black-gray RAL 7021, shielded, Plug straight M12, coding: A, on free cable end, cable length: 20 m, for outdoor applications

## Commercial data

| | |
|---|---|
| Item number | 1091379 |
| Packing unit | 1 pc |
| Minimum order quantity | 25 pc |
| Note | Made to order (non-returnable) |
| Product key | AF1CJA |
| GTIN | 4055626903378 |
| Weight per piece (including packing) | 1,485 g |
| Weight per piece (excluding packing) | 1,485 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

# SAC-4P-M12MS/20,0-28X SH OD - Sensor/actuator cable

1091379

https://www.phoenixcontact.com/pc/products/1091379

## Technical data

### Product properties

| | |
|---|---|
| Product type | Sensor/actuator cable |
| Number of positions | 4 |
| Shielded | yes |

### Electrical properties

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

### Connector

Connection 1

| | |
|---|---|
| Type | Plug straight M12 |
| Coding type | A |

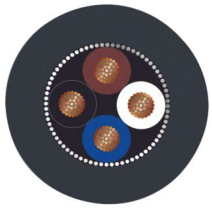
Connection 2

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

### Cable/line

| | |
|---|---|
| Cable length | 20 m |

PE-X black [28X]

| | |
|---|---|
| Dimensional drawing |  |
| Cable weight | 74 kg/km |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | PE-X black [28X] |
| Conductor structure signal line | 28x 0.15 mm |
| AWG signal line | 20 |
| Conductor cross-section | 4x 0.5 mm² (Signal line) |
| Wire diameter incl. insulation | 1.6 mm ±0.05 mm (Signal line) |
| External cable diameter | 6.80 mm ±0.2 mm |
| Outer sheath, material | PE-X |
| External sheath, color | black-gray RAL 7021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PE-X |

| | |
|---|---|
| Single wire, color | brown, white, blue, black |
| Thickness, insulation | approx. 0.30 mm (Core insulation) |
| | approx. 0.70 mm (Outer cable sheath) |
| | approx. 0.45 mm (Inner sheath) |
| Overall twist | 4 wires, twisted |
| Length of twist, overall twist | 108.8 mm |
| Optical shield covering | 85 % |
| Max. conductor resistance | ≤ 39 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 100 MΩ*km (at 20 °C) |
| Cable capacity | ≤ 100 nF/km (Conductor-conductor, asymmetrical/touching) |
| | ≤ 85 nF/km (Conductor-conductor, symmetrical/star quad) |
| | ≤ 150 nF/km (Wire/shield) |
| Nominal voltage, cable | ≤ 300 V AC |
| Test voltage | ≥ 3000 V AC |
| Smallest bending radius, fixed installation | 34 mm |
| Smallest bending radius, movable installation | 68 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 1000000, Bending radius: 68 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s² |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| Flame resistance | according to DIN 60332-1-2 |
| | according to DIN EN 50266-2-5 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | 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) |

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001855 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 26121600 |

## 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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 5.652 kg CO2e |


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



PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com