

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, 8-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M8, coding: A, cable length: 10 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Save space – with high-pos. connectors

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1404190 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF01 |
| Product key | AF1BGA |
| Catalog page | Page 207 (C-2-2019) |
| GTIN | 4046356681124 |
| Weight per piece (including packing) | 320.2 g |
| Weight per piece (excluding packing) | 300.7 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

SAC-8P-10,0-PUR/M 8FS - Sensor/actuator cable



1404190

<https://www.phoenixcontact.com/us/products/1404190>

Technical data

Product properties

| | |
|----------------------|-----------------------|
| Product type | Sensor/actuator cable |
| Application | Standard |
| Number of positions | 8 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |

Insulation characteristics

| | |
|---------------------|---|
| Degree of pollution | 3 |
|---------------------|---|

Material specifications

| | |
|--|---|
| Flammability rating according to UL 94 | HB |
| 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 | 30 V AC |
| | 30 V DC |
| Nominal current I_N | 1.5 A |

Mechanical properties

Mechanical data

| | |
|-----------------------------|------------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|------------|

Signaling

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

Connection data

Conductor connection

| | |
|-------------------|------------------------|
| Tightening torque | 0.2 Nm (M8 connectors) |
|-------------------|------------------------|

Connector

Connection 1

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

SAC-8P-10,0-PUR/M 8FS - Sensor/actuator cable



1404190

<https://www.phoenixcontact.com/us/products/1404190>


Connection 2

| | |
|---------------------|--------------------|
| Type | Socket straight M8 |
| Number of positions | 8 |
| Coding type | A |

Cable/line

| | |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

PUR halogen-free black [PUR]

| | |
|---|--|
| Dimensional drawing |  |
| Cable weight | 31.4 kg/km |
| UL AWM Style | 20549 |
| Number of positions | 8 |
| Shielded | no |
| Cable type | PUR halogen-free black [PUR] |
| Conductor structure signal line | 18x 0.10 mm |
| AWG signal line | 26 |
| Conductor cross section | 8x 0.14 mm ² (Signal line) |
| Wire diameter incl. insulation | 1 mm ±0.02 mm (Signal line) |
| External cable diameter | 5.10 mm ±0.15 mm |
| Outer sheath, material | PUR |
| External sheath, color | black-gray RAL 7021 |
| Conductor material | Bare Cu litz wires |
| Material, filler | PE |
| Material wire insulation | PP |
| Single wire, color | white, brown, green, yellow, gray, pink, blue, red |
| Thickness, insulation | ≥ 0.21 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) |
| Overall twist | 8 wires around filler to the core |
| Length of twist, overall twist | 58 mm |
| Max. conductor resistance | 139 Ω/km (at 20 °C) |
| Insulation resistance | 1 GΩ*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 | 25.5 mm |

SAC-8P-10,0-PUR/M 8FS - Sensor/actuator cable



1404190

<https://www.phoenixcontact.com/us/products/1404190>

| | |
|---|---|
| Smallest bending radius, movable installation | 51 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 4000000, Bending radius: 51 mm, 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 UL 758/1581 (horizontal) in accordance with UL 758/1581 FT2 |
| Resistance to oil | According to DIN EN 60811-2-1, 168 h at 100°C |
| Other resistance | hydrolysis and microbe resistant Resistant to salt water Low adhesion abrasion-resistant partly UV-resistant (in accordance with DIN EN ISO 4892-2-A) |
| 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) | -25 °C ... 85 °C (Plug / socket) |

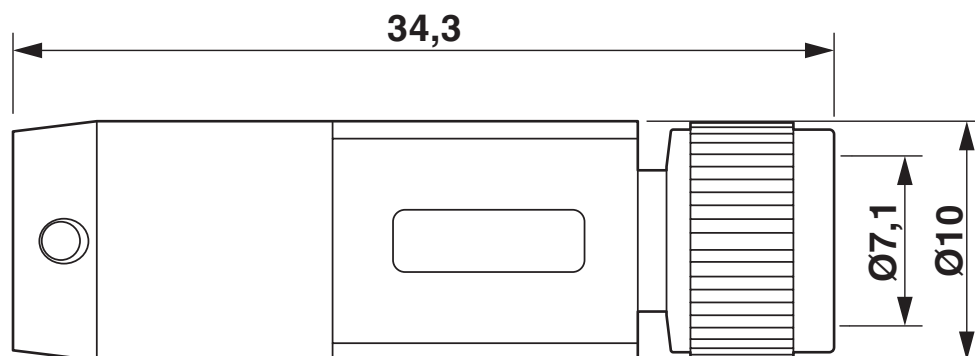
Standards and regulations

M8

| | |
|--------------------------|-----------------|
| Standard designation | M8 connector |
| Standards/specifications | IEC 61076-2-104 |

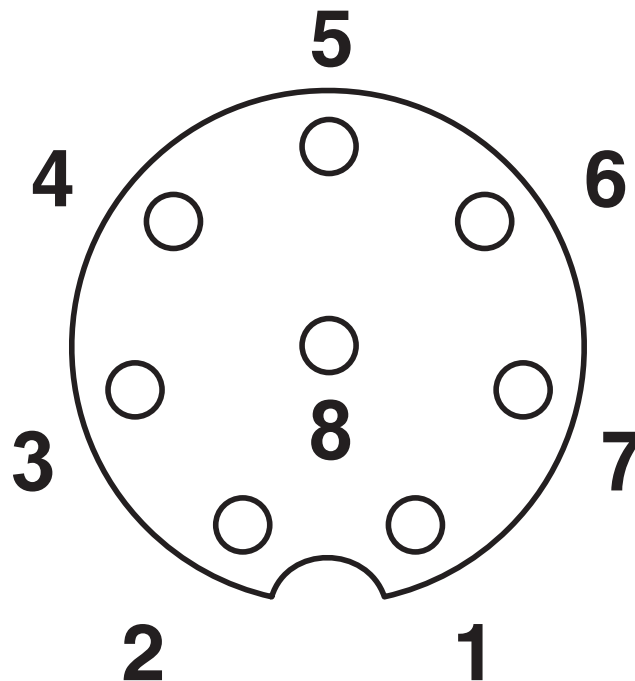
Drawings

Dimensional drawing



Socket M8 x 1, straight

Schematic diagram



Connector pin assignment of M8 socket, 8-pos., view of socket side

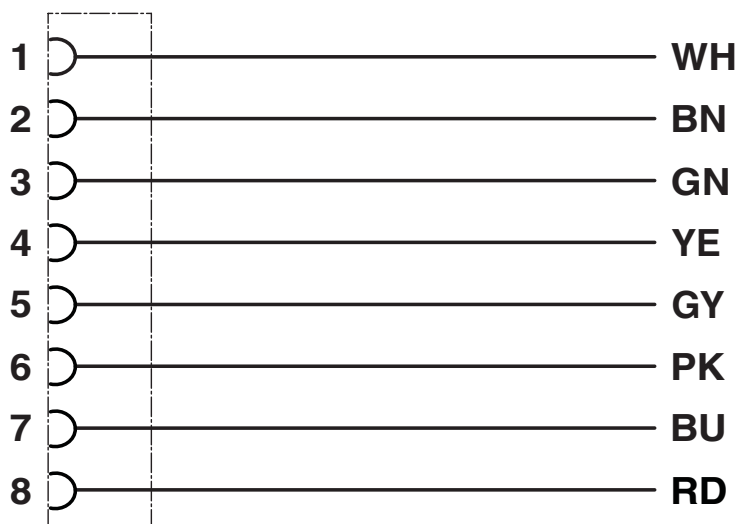
SAC-8P-10,0-PUR/M 8FS - Sensor/actuator cable

1404190

<https://www.phoenixcontact.com/us/products/1404190>



Circuit diagram



Contact assignment of M8 socket

SAC-8P-10,0-PUR/M 8FS - Sensor/actuator cable



1404190

<https://www.phoenixcontact.com/us/products/1404190>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1404190>



UL Listed

Approval ID: FILE E 221474

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 30 V | 1.5 A | - | - |



cUL Listed

Approval ID: FILE E 221474

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 30 V | 1.5 A | - | - |



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387

SAC-8P-10,0-PUR/M 8FS - Sensor/actuator cable



1404190

<https://www.phoenixcontact.com/us/products/1404190>

Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

UNSPSC

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

SAC-8P-10,0-PUR/M 8FS - Sensor/actuator cable



1404190
<https://www.phoenixcontact.com/us/products/1404190>

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% |
| EF3.0 Climate Change | |
| CO2e kg | 4.142 kg CO2e |

Phoenix Contact 2025 © - 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