

SAC-8P-M12MS/ 4,0-853/M12FS HN - Sensor/actuator cable



1404948

<https://www.phoenixcontact.com/us/products/1404948>

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-pos., PUR, black, shielded, straight M12 male plug, A-coded, to straight M12 female plug, A-coded, cable length: 4 m

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1404948 |
| Packing unit | 1 pc |
| Minimum order quantity | 10 pc |
| Product key | AF1CMA |
| GTIN | 4046356729567 |
| Weight per piece (including packing) | 124.7 g |
| Weight per piece (excluding packing) | 124.7 g |
| Country of origin | PL |

SAC-8P-M12MS/ 4,0-853/M12FS HN - Sensor/actuator cable



1404948

<https://www.phoenixcontact.com/us/products/1404948>

Technical data

Product properties

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

Material specifications

| | |
|-------------------------------|---|
| Seal material | NBR |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material for screw connection | Zinc die-cast, nickel-plated |

Electrical properties

| | |
|--------------------------------|----------|
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U _N | 30 V AC |
| | 30 V DC |

Mechanical properties

Mechanical data

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

Signaling

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

Connector

Connection 1

| | |
|---------------------|-------------------|
| Type | Plug straight M12 |
| Number of positions | 8 |
| Coding type | A |

Connection 2

| | |
|---------------------|---------------------|
| Type | Socket straight M12 |
| Number of positions | 8 |
| Coding type | A |

Cable/line

| | |
|--------------|----------|
| Cable length | 4 m |
| Cable weight | 22 kg/km |

SAC-8P-M12MS/ 4,0-853/M12FS HN - Sensor/actuator cable



1404948

<https://www.phoenixcontact.com/us/products/1404948>

| | |
|---|--|
| Copper weight | 13.5 kg/km |
| UL AWM Style | 20963 (80°C/30 V) |
| Number of positions | 8 |
| Shielded | yes |
| Conductor structure | 4x2xAWG28/19; S/UTP |
| Conductor structure signal line | 19x 0.08 mm |
| AWG signal line | 28 |
| Conductor cross-section | 4x 2x 0.09 mm ² |
| Wire diameter incl. insulation | 0.6 mm |
| External cable diameter | 3.70 mm ±0.1 mm |
| Outer sheath, material | PUR |
| External sheath, color | black |
| Conductor material | Tin-plated Cu litz wires |
| Material, filler | Yarn |
| Material wire insulation | TPE |
| Thickness, outer sheath | nom. 0.45 mm |
| Twisted pairs | 2 cores to the pair |
| Overall twist | Four pairs and four fillers to the core |
| Optical shield covering | 85 % |
| Shield resistance | approx. 36.00 Ω/km |
| Max. conductor resistance | ≤ 222 Ω/km |
| Insulation resistance | ≥ 200 MΩ*km |
| Cable capacity | nom. 110 pF/m (Within a pair of wires) |
| Nominal voltage, cable | 30 V |
| Test voltage Core/Core | 0.5 kV (50 Hz, 1 min.) |
| Test voltage Core/Shield | 0.50 kV (50 Hz, 1 min.) |
| Smallest bending radius, fixed installation | 10 mm |
| Smallest bending radius, movable installation | 50 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 3000000 |
| Flame resistance | in accordance with EN 50265-2-1 in acc. to UL VW1 |
| Other resistance | Hydrolysis-resistant (In accordance with D 253 377-02-A-01 F83558) Media resistance (In accordance with D 253 377-02-A-01 F83558) |
| Special properties | Silicone-free PVC-free |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) -10 °C ... 80 °C (Cable, flexible installation) 100 °C (with limited hydrolysis/media resistance) |

Environmental and real-life conditions

Ambient conditions

IP65

SAC-8P-M12MS/ 4,0-853/M12FS HN - Sensor/actuator cable



1404948

<https://www.phoenixcontact.com/us/products/1404948>

| | |
|----------------------|------|
| Degree of protection | IP67 |
| | IP68 |

Standards and regulations

| | |
|----------------------|---------------|
| Standard designation | M12 connector |
|----------------------|---------------|

SAC-8P-M12MS/ 4,0-853/M12FS HN - Sensor/actuator cable

1404948

<https://www.phoenixcontact.com/us/products/1404948>

Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

1404948

<https://www.phoenixcontact.com/us/products/1404948>

Schematic diagram



Pin assignment M12 plug, 8-pos., view plug side

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

SAC-8P-M12MS/ 4,0-853/M12FS HN - Sensor/actuator cable



1404948

<https://www.phoenixcontact.com/us/products/1404948>

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

SAC-8P-M12MS/ 4,0-853/M12FS HN - Sensor/actuator cable



1404948

<https://www.phoenixcontact.com/us/products/1404948>

Classifications

ECLASS

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

UNSPSC

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

SAC-8P-M12MS/ 4,0-853/M12FS HN - Sensor/actuator cable



1404948

<https://www.phoenixcontact.com/us/products/1404948>

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.) | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16.9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" TM)(CAS: n/a) |
|-------------------------------------|--|

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