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# Sensor/Actuator cable - SAC-8P-M12MS/ 0,6-PUR/M12FR - 1522736

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Sensor/Actuator cable, 8-position, PUR halogen-free, Black-gray RAL 7021, Plug straight M12, A-coded, on Socket angled M12, A-coded, Cable length: 0.6 m

## Product Features

☑ Easy and safe: 100% electrically tested plug-in components

☑ Our standard: robust halogen-free PUR cable

## Key commercial data

| Packing unit | 1 1 |
|---|---|
| GTIN | 4 017918 957544 |
| Weight per Piece (excluding packing) | 47.0 GRM |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

## Technical data

### Dimensions

| Length of cable | 0.6 m |
|---|---|

### Ambient conditions

| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
|---|---|
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |

### General

| Rated current at 40°C | 2 A |
|---|---|
| Rated voltage | 30 V |

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## Technical data

### General

| | |
|---|---|
| Number of positions | 8 |
| Contact resistance | $\leq 5$ m$\Omega$ |
| Insulation resistance | $\geq 100$ M$\Omega$ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Status display | No |
| Surge voltage category | II |
| Pollution degree | 3 |
| Insertion/withdrawal cycles | $\geq 100$ |
| Torque | 0.4 Nm (M12 connector) |

### Material

| | |
|---|---|
| Inflammability class according to UL 94 | HB |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |

### Cable

| | |
|---|---|
| Cable type | PUR halogen-free black |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | Li9Y11Y |
| UL AWM style | 20549 / 10493 (80°C/300 V) |
| Conductor cross section | 8x 0.25 mm² (signal line) |
| AWG signal line | 24 |
| Conductor structure signal line | 32x 0.10 mm |
| Core diameter including insulation | 1.17 mm ±0.02 mm |
| Thickness, insulation | $\geq 0.21$ mm |
| Wire colors | white, brown, green, yellow, gray, pink, blue, red |
| Overall twist | 8 wires around filler to the core |
| External sheath, color | Black-gray RAL 7021 |
| Outer sheath thickness | approx. 0.8 mm |
| External cable diameter D | 5.9 mm ±0.15 mm |
| Minimum bending radius, fixed installation | 8 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Minimum bending radius, drag chain applications | 10 x D |

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## Technical data

### Cable

| Cable weight | 46 kg/km |
|---|---|
| Outer sheath, material | PUR |
| Material, filler | PE |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Conductor resistance | 78 Ω/km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V |
| Test voltage, cable | ≥ 3000 V |
| Special properties | Flexible cable conduit capable |
|  | Silicone-free |
|  | Free of substances which would hinder coating with paint or varnish |
| Flame resistance | in accordance with DIN UL-Style 20549 |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | Highly resistant to acids, alkaline solutions and solvents |
|  | hydrolysis and microbe 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) |

## Classifications

### eCl@ss

| eCl@ss 4.0 | 27060306 |
|---|---|
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

### ETIM

| ETIM 2.0 | EC000830 |
|---|---|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

# Sensor/Actuator cable - SAC-8P-M12MS/ 0,6-PUR/M12FR - 1522736

## Classifications

### UNSPSC

| UNSPSC 6.01 | 31251501 |
|---|---|
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |

## Approvals

### Approvals

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Approvals

UL Listed / cUL Listed / GOST / cULus Listed

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Ex Approvals

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Approvals submitted

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### Approval details

| UL Listed | |
|---|---|
| Nominal current IN | 2 A |
| Nominal voltage UN | 30 V |

| cUL Listed | |
|---|---|
| Nominal current IN | 2 A |
| Nominal voltage UN | 30 V |

# Sensor/Actuator cable - SAC-8P-M12MS/ 0,6-PUR/M12FR - 1522736

## Approvals

GOST ℗

cULus Listed ⓤ

## Accessories

### Accessories

### Conductor marking

Insert label - PABA WH/15 - 1013151

Insert label, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Insert label - PABA YE/15 - 1013698

Insert label, Strip, yellow, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Insert label - PABA RD/15 - 1013944

Insert label, Strip, red, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

### Marker carrier cable

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## Accessories

Conductor marker carrier - PATO 2/15 - 1013122

Conductor marker carrier, transparent, Unlabeled, Mounting type: Clip on, Cable diameter: 2.8-4.4 mm, Lettering field: 4 x 15 mm

Conductor marker carrier - PATO 3/15 - 1013135

Conductor marker carrier, transparent, Unlabeled, Mounting type: Clip on, Cable diameter: 4.4-6.7 mm, Lettering field: 4 x 15 mm

Conductor marker carrier - PATO 4/15 - 1013148

Conductor marker carrier, transparent, Unlabeled, Mounting type: Clip on, Cable diameter: 6.7-10 mm, Lettering field: 4 x 15 mm

## Marker pen

Marker pen - B-STIFT - 1051993

Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

## Protective cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 sockets

# Sensor/Actuator cable - SAC-8P-M12MS/ 0,6-PUR/M12FR - 1522736

## Accessories

Screw plug - PROT-M12 MS-PA-CHAIN - 1430899

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets

## Safety locking

Fuse clip - SAC-M12-EXCLIP-M - 1558988

Fuse clip for the pin side of various M12 sensor/actuator connectors prevents plug-in connections being interrupted without using a tool

Fuse clip - SAC-M12-EXCLIP-F - 1558991

Fuse clip for the socket side of various M12 sensor/actuator connectors prevents plug-in connections being interrupted without using a tool

## Screwdriver tools

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600

Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

# Sensor/Actuator cable - SAC-8P-M12MS/ 0,6-PUR/M12FR - 1522736

## Accessories

Tool - SAC BIT M12-D15 - 1208432

Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

## Torque tool

Torque screwdriver - TSD 04 SAC - 1208429

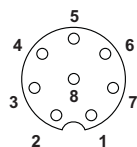Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

Torque screwdriver - TSD-M 1,2NM - 1212224

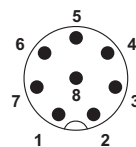Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

## Drawings

Schematic diagram

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

Schematic diagram

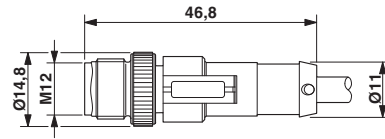Pin assignment M12 plug, 8-pos., view plug side

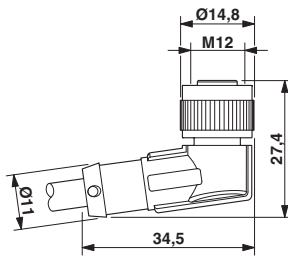# Sensor/Actuator cable - SAC-8P-M12MS/ 0,6-PUR/M12FR - 1522736

### Cable cross section
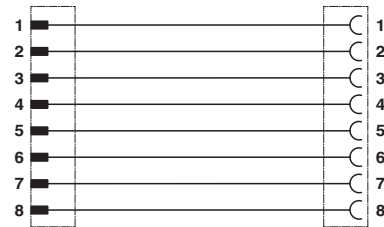
PUR halogen-free black [PUR]

### Dimensioned drawing

**46,8**

Ø14,8  M12  Ø11

M12 x 1 plug, straight

### Dimensioned drawing

Ø14,8
M12
27,4
Ø11
34,5

M12 x 1 socket, angled

### Circuit diagram

| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |

Contact assignment of the M12 plug and the M12 socket

单击下面可查看定价，库存，交付和生命周期等信息

>>Phoenix Contact(菲尼克斯)