

Sensor/Actuator cable - SAC-5P-MS/ 1,5-542/ FS SCO BK - 1406153


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Sensor/Actuator cable, 5-position, PVC, Yellow RAL 1021, Plug straight M12-SPEEDCON, A-coded, on Socket straight M12-SPEEDCON, A-coded, Cable length: 1.5 m



Key commercial data

| | |
|----------------------|---|
| Packing unit | 1 PCE |
| GTIN |  4 046356 798976 |
| Custom tariff number | 85444290 |
| Country of origin | UNITED STATES |

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 1.5 m |
|-----------------|-------|

General

| | |
|---------------------------------|---------------------------------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 60 V |
| Number of positions | 5 |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Standards/regulations | M12 plug-in connector IEC 61076-2-101 |
| Coding | A - standard |
| Surge voltage category | II |
| Pollution degree | 3 |
| Degree of protection | IP65 |

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Technical data

General

| | |
|-----------------------------|---|
| Degree of protection | IP67 |
| Degree of protection | IP68 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 plug-in connector) |
| Contact material | CuSn |
| 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 |
| Status display | No |

Line characteristics

| | |
|---|---|
| Cable type | PVC yellow 105 °C |
| Cable type (abbreviation) | 542 |
| UL AWM style | 2517 (105°C/300 V) |
| AWG signal line | 22 |
| Core diameter including insulation | 1.27 mm ±0.03 mm |
| Wire colors | Brown, blue, black, white, gray |
| Overall twist | 5 wires around filler to the core |
| External sheath, color | yellow |
| External cable diameter D | 5.4 mm ± 0.2 mm |
| Minimum bending radius, flexible installation | 8 x D |
| Cable weight | 43 kg/km |
| Outer sheath, material | PVC |
| Material, filler | PP |
| Material conductor insulation | PVC |
| Conductor material | Tin-plated Cu litz wires |
| Nominal voltage, cabel | 300 V |
| Special properties | UL standards PLTC and ITC |
| Other resistance | UV resistant |
| Ambient temperature (operation) | -30 °C ... 105 °C (cable, fixed installation) |

Classifications

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC001855 |
|----------|----------|

UNSPSC

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

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 |

Approvals

Approvals


Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

Approval details

| | |
|---|-------|
| UL Listed  | |
| Nominal current IN | 4 A |
| Nominal voltage UN | 125 V |

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Approvals

| | |
|--------------------|-------|
| cUL Listed | |
| Nominal current IN | 4 A |
| Nominal voltage UN | 125 V |

| | |
|--------------|--|
| cULus Listed | |
|--------------|--|

Accessories

Accessories

Fuse

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

Protection and sealing elements

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

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



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Accessories

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

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



Tools

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

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

Tool - SAC BIT M12-D15 - 1208432

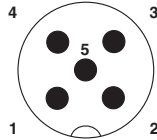


Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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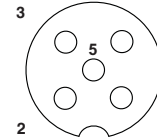
Drawings

Schematic diagram



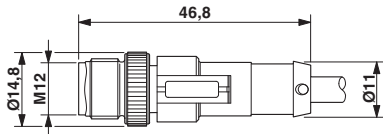
Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



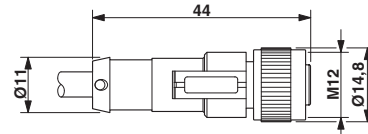
Pin assignment M12 socket, 5-pos., B-coded, female side

Dimensioned drawing



M12 x 1 plug, straight

Dimensioned drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 plug and the M12 socket