

Sensor/Actuator cable - SAC-5P-MR/ 1,5-542/ FR SCO BK - 1406162

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Sensor/Actuator cable, 5-position, Variable cable type, Plug angled M12 SPEEDCON, A-coded, on Socket angled M12 SPEEDCON, A-coded, Cable length: 1.5 m



Key Commercial Data

| | |
|--------------------------------------|---------------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 10.0 g |
| Custom tariff number | 85444290 |
| Country of origin | United States |

Technical data

Dimensions

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

Ambient conditions

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

General

| | |
|-----------------------|-------------------------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 60 V |
| Number of positions | 5 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Status display | No |

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Technical data

General

| | |
|------------------------------|------------------------|
| Protective circuit/component | Unwired |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 connector) |

Material

| | |
|--|---|
| Flammability rating according to UL 94 | HB |
| 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 |

Standards and Regulations

| | |
|--|-----------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Flammability rating according to UL 94 | HB |

Cable

| | |
|---|-----------------------------------|
| 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, cable | 300 V |
| Special properties | UL standards PLTC and ITC |
| Other resistance | UV resistant |

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Technical data

Cable

| | |
|---------------------------------|---|
| Ambient temperature (operation) | -30 °C ... 105 °C (cable, fixed 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 | 27279218 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

UNSPSC

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

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

Sensor/Actuator cable - SAC-5P-MR/ 1,5-542/ FR SCO BK - 1406162

Approvals

Approval details

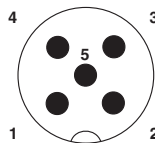
| | |
|--------------------------------|-------|
| UL Listed | |
| Nominal current I _N | 4 A |
| Nominal voltage U _N | 125 V |

| | |
|--------------------------------|-------|
| cUL Listed | |
| Nominal current I _N | 4 A |
| Nominal voltage U _N | 125 V |

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

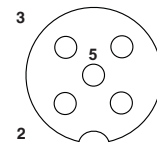
Drawings

Schematic diagram



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

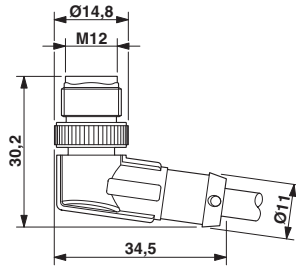
Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

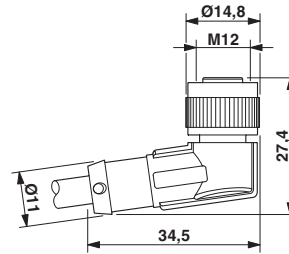
Sensor/Actuator cable - SAC-5P-MR/ 1,5-542/ FR SCO BK - 1406162

Dimensional drawing



M12 x 1 male plug, angled

Dimensional drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of the M12 plug and the M12 socket