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Sensor/Actuator cable, 5-position, PVC, yellow RAL 1021, shielded, free cable end, on Socket angled M12 SPEEDCON, A-coded, Cable length: 20 m



Key Commercial Data

| Packing unit | 1 STK |
|--------------------------------------|---------------|
| Weight per Piece (excluding packing) | 120.0 g |
| Custom tariff number | 85444290 |
| Country of origin | United States |

Technical data

Dimensions

| Length of cable | 20 m |
|---------------------------------|-------------------------------|
| Ambient conditions | |
| Ambient temperature (operation) | -25 °C 90 °C (Plug / socket) |
| Degree of protection | IP65 |
| General | |
| Rated current at 40°C | 4 A |
| Rated voltage | 60 V |
| Number of positions | 5 |
| Insulation resistance | \geq 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Status display | No |
| Protective circuit/component | Unwired |

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Technical data

General

| Overvoltage category | Ш |
|-----------------------------|------------------------|
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 connector) |

Material

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

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 |
| Shielding | Tinned copper braided shield |
| Optical shield covering | 85 % |
| External sheath, color | yellow |
| External cable diameter D | 5.9 mm ±0.2 mm |
| Minimum bending radius, flexible installation | 12 x D |
| Cable weight | 57 kg/km |
| Outer sheath, material | PVC |
| Material, filler | PP |
| Material conductor insulation | PVC |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ (550 M Ohms/m @ 500V) |
| Conductor resistance | max. 50.5 Ω/km (20° C) |

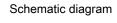


Technical data

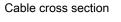
Cable

| Nominal voltage, cable | 300 V |
|---------------------------------|---|
| Special properties | UL standards PLTC and ITC |
| Other resistance | UV resistant |
| Ambient temperature (operation) | -30 °C 105 °C (cable, fixed installation) |

Drawings

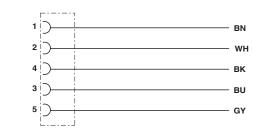








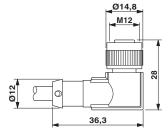
Pin assignment M12 socket, 5-pos., A-coded, socket side view



Contact assignment of the M12 socket

PVC yellow 105 °C [542]

Dimensional drawing



M12 x 1 socket, angled, shielded

Classifications

eCl@ss

| eCl@ss 8.0 | 27279218 |
|------------|----------|
| eCl@ss 9.0 | 27060311 |

ETIM

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

Circuit diagram



Accessories

Accessories

Protective cap

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

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



Safety locking

Locking clip - SAC-M12-EXCLIP-F - 1558991



Locking clip for the socket side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools

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

Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

Torque tool

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Accessories

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

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