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Bus system cable - SAC-6P-MS/15,0-970 SCO - 1428526

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Bus system cable, VARAN (100 Mbps), 6-position, SANTOPRENE halogen-free, black RAL 9005, shielded, Plug straight M12 SPEEDCON, A-coded, on free cable end, Cable length: 15 m



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 STK |
| GTIN |  4 046356 322805 |

Technical data

Dimensions

| | |
|--|-------|
| Length of cable | 15 m |
| Stripping length of the free conductor end | 50 mm |

Ambient conditions

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

General

| | |
|-----------------------|-----------------|
| Rated current at 40°C | 2 A |
| Rated voltage | 30 V |
| Number of positions | 6 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Signal type/category | VARAN, 100 Mbps |
| Status display | No |
| Overvoltage category | II |
| Degree of pollution | 3 |

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Technical data

General

| | |
|--------|------------------------|
| Torque | 0.4 Nm (M12 connector) |
|--------|------------------------|

Material

| | |
|--|---|
| Flammability rating 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 |

Pin assignment

| | |
|--|------------------------|
| Position = wire color (signal) = position (optional) | 1 (Plug) |
| | 4 (Plug) |
| | 6 (Plug) = BU (Power) |
| | 7 (Plug) = BN (Power) |
| | 5 (Plug) = GN/WH (RD+) |
| | 8 (Plug) = GN (RD-) |
| | 2 (Plug) = OG/WH (TD+) |
| | 3 (Plug) = OG (TD-) |

Standards and Regulations

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

Cable

| | |
|---|---|
| Cable type | VARAN |
| Cable type (abbreviation) | 970 |
| Cable abbreviation | Li9YD12Y |
| Cable structure | 1x2xAWG22/19 + 1x4xAWG24/19 |
| Conductor cross section | 4x 0.25 mm ² (Signal line) |
| | 2x 0.38 mm ² (Power supply) |
| AWG signal line | 24 |
| AWG power supply | 22 |
| Conductor structure signal line | 19x 0.13 mm |
| Conductor structure, voltage supply | 19x 0.16 mm |
| Core diameter including insulation | 1.35 mm (Signal line) |
| | 1.5 mm (Power supply) |
| Wire colors | Brown, blue, white/orange, white/green, green, orange |
| Type of pair shielding | Tinned copper braided shield, 95 % covering |
| Overall twist | 1 star quad and 2 wires with 2 fillers |
| Shielding | Tinned copper-braided shield, approx. 85% covering |
| External sheath, color | black RAL 9005 |
| External cable diameter D | 7.8 mm ±0.2 mm |
| Smallest bending radius, fixed installation | ≥ 93 mm |

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Technical data

Cable

| | |
|---|---|
| Smallest bending radius, movable installation | ≥ 93 mm |
| Number of bending cycles | 3000000 |
| Bending radius | 93 mm |
| Traversing path | 2 m |
| Traversing rate | 1 m/s |
| Acceleration | 2 m/s ² |
| Cable weight | 81 kg/km |
| Outer sheath, material | SANTOPRENE halogen-free |
| Material, inner sheath | TPE |
| Material, filler | Yarn |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | 5 GΩ*km (Data cable) |
| Conductor resistance | 77 Ω/m (Data cable) |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |
| Working capacitance | 50 nF (Data cable) |
| Wave impedance | 100 Ω ±15 % |
| Nominal voltage, cable | 125 V (Data cable) 48 V (Power supply) |
| Test voltage, cable | 2000 V (Power supply) max. 700 V AC (Data cable) |
| Halogen-free | in accordance with DIN EN 50267-2-1 |
| Ambient temperature (operation) | -20 °C ... 80 °C (Cable) |

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 |

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Classifications

UNSPSC

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

Approvals

Approvals

Approvals

EAC

Ex Approvals

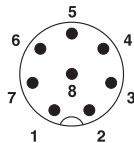
Approvals submitted

Approval details

| |
|-----|
| EAC |
|-----|

Drawings

Schematic diagram



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

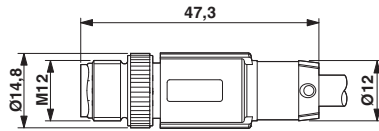
Cable cross section



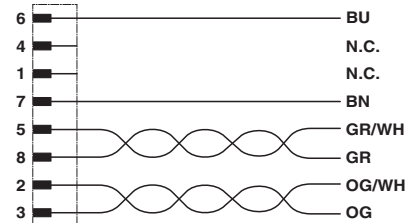
VARAN [970]

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Dimensional drawing



Circuit diagram



Plug, M12 x 1, straight, shielded

Contact assignment of the M12 plug

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