

SAC-6P-M12FS/ 7,0-970/RJ45Q - Bus system cable



1576520

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Bus system cable, VARAN, 6-pos., black halogen-free TPE, shielded, straight M12 SPEEDCON plug to RJ45 plug-in plug (IP20), cable length: 7 m

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1576520 |
| Packing unit | 1 pc |
| Minimum order quantity | 25 pc |
| Product key | AF1CMM |
| GTIN | 4046356520836 |
| Weight per piece (including packing) | 580.3 g |
| Weight per piece (excluding packing) | 580.3 g |
| Country of origin | PL |

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Technical data

Product properties

| | |
|---------------------|-------------------------|
| Product type | Data cable preassembled |
| Number of positions | 6 |
| Coding | A |

Insulation characteristics

| | |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution | 1 |

Interfaces

| | |
|----------------------|-------|
| Bus system | VARAN |
| Signal type/category | VARAN |

Signaling

| | |
|------------------------|----|
| Status display | no |
| Status display present | no |

Electrical properties

| | |
|-----------------------|---------|
| Nominal voltage U_N | 30 V AC |
| | 30 V DC |
| Nominal current I_N | 2 A |

Mechanical properties

Mechanical data

| | |
|-----------------------------|------------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|------------|

Material specifications

| | |
|--|-------------------------|
| Color | traffic gray A RAL 7042 |
| Flammability rating according to UL 94 | V0 |

Connector

Connection 1

| | |
|-------------|---|
| Type | Socket straight M12 |
| Coding type | A (Standard) |
| Material | CuZn (Contact) |
| | Ni/Au (Contact surface) |
| | TPU GF |
| | TPU, hardly inflammable, self-extinguishing |
| | Zinc die-cast, nickel-plated |
| | NBR |

Connection 2

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| | |
|----------|-------------------------|
| Type | Plug straight RJ45 |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PC (Contact carrier) |
| | PA (Housing) |

Cable/line

| | |
|--------------|-----|
| Cable length | 7 m |
|--------------|-----|

VARAN [970]

| | |
|-------------------------------------|--|
| Dimensional drawing |  |
| Cable weight | 81 kg/km |
| Number of positions | 6 |
| Shielded | yes |
| Cable type | VARAN [970] |
| Conductor structure | 1x2xAWG22/19 + 1x4xAWG24/19 |
| Conductor structure signal line | 19x 0.13 mm |
| AWG signal line | 24 |
| Conductor structure, voltage supply | 19x 0.16 mm |
| AWG power supply | 22 |
| Conductor cross-section | 4x 0.25 mm ² (Signal line) |
| | 2x 0.38 mm ² (Power supply) |
| Wire diameter incl. insulation | 1.35 mm (Signal line) |
| | 1.5 mm (Power supply) |
| External cable diameter | 7.80 mm ±0.2 mm |
| Outer sheath, material | SANTOPRENE halogen-free |
| External sheath, color | black RAL 9005 |
| Conductor material | Bare Cu litz wires |
| Material, filler | Yarn |
| Material wire insulation | PP |
| Single wire, color | 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 |
| Max. conductor resistance | 77 Ω/m (Data cable) |
| Insulation resistance | 5 GΩ*km (Data cable) |
| Wave impedance | 100 Ω ±15 % |
| Working capacitance | 50 nF (Data cable) |

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| | |
|---|---|
| Nominal voltage, cable | 125 V (Data cable) |
| | 48 V (Power supply) |
| Test voltage | 2000 V (Power supply) |
| | max. 700 V AC (Data cable) |
| Smallest bending radius, fixed installation | ≥ 93 mm |
| Smallest bending radius, movable installation | ≥ 93 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 3000000, Bending radius: 93 mm, Traversing path: 2 m, Traversing rate: 1 m/s, Acceleration: 2 m/s ² |
| Halogen-free | in accordance with DIN EN 50267-2-1 |
| Ambient temperature (operation) | -20 °C ... 80 °C (Cable) |
| Ambient temperature (installation) | 0 °C ... 50 °C |

Environmental and real-life conditions

Ambient conditions

| | |
|---|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) (Cable, fixed installation) | 0 °C ... 50 °C (for installation) |
| | -20 °C ... 80 °C (cable, fixed installation) |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket) |
| | -20 °C ... 70 °C (RJ45) |

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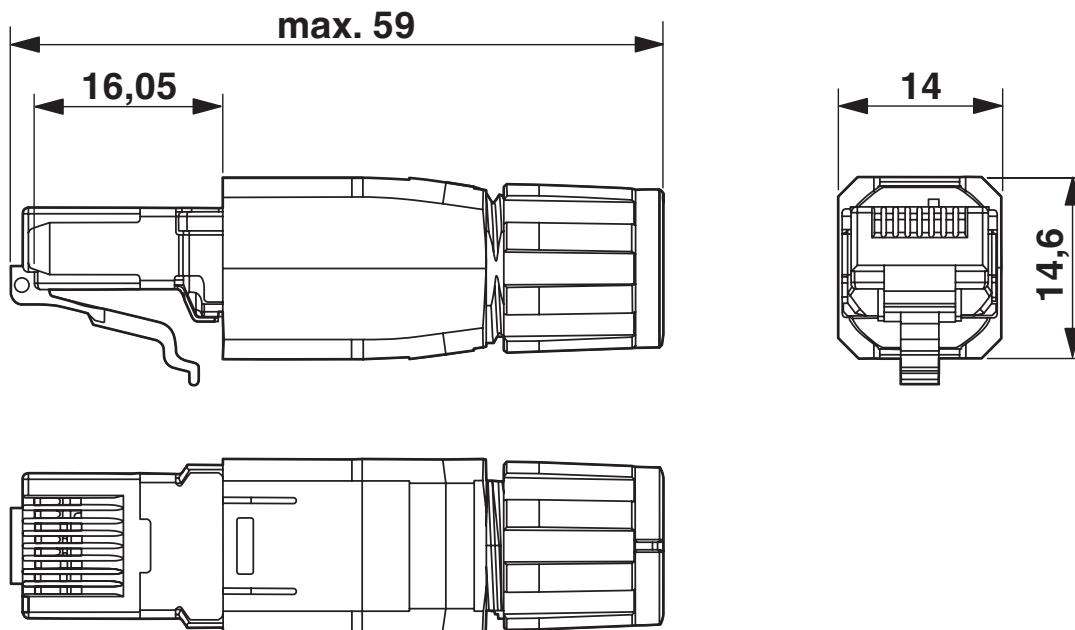
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



RJ45 connector, IP20

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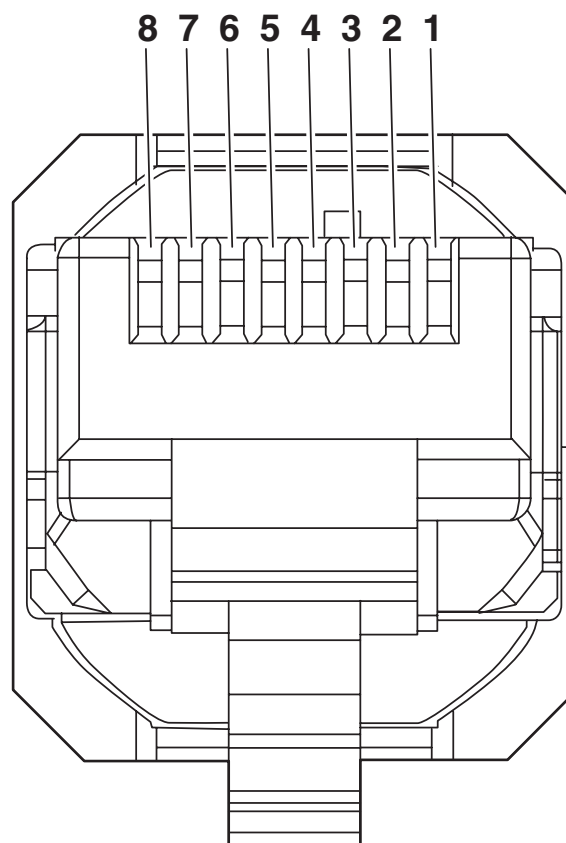
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Schematic diagram



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

Schematic diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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