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Bus system cable, PROFINET, 4-position, PVC/PVC, green RAL 6018, shielded, Plug straight M12, D-coded, on Socket straight M12, D-coded, cable length: 10 m



Key Commercial Data

| Packing unit | 1 pc |
|--------------|-----------------|
| GTIN | 4 046356 161800 |
| GTIN | 4046356161800 |

Technical data

Dimensions Length of cable

| Ambient conditions | |
|----------------------|------|
| Degree of protection | IP65 |
| | IP67 |

10 m

IP68

General

| Rated current at 40°C | 14 A |
|-----------------------------|----------|
| Rated current at 40 C | 44 |
| Rated voltage | 48 V AC |
| | 60 V DC |
| Number of positions | 4 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | D - data |
| Signal type/category | PROFINET |
| Status display | No |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |

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Technical data

Material

| Flammability rating according to UL 94 | V0 |
|--|---|
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 6.6 |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |

Standards and Regulations

| Flammability rating according to UL 94 | V0 |
|--|----|
|--|----|

Cable

| Cable | |
|---|--|
| Cable type | PROFINET PVC stranded CAT5 |
| Cable type (abbreviation) | 93B |
| Cable abbreviation | 2YY(ST)CY |
| UL AWM style | 21694 |
| Cable structure | 1x4xAWG22/7; SF/TQ |
| Conductor cross section | 4x 0.34 mm² |
| AWG signal line | 22 |
| Conductor structure signal line | 7x 0.25 mm |
| Core diameter including insulation | 1.55 mm |
| Wire colors | White, yellow, blue, orange |
| Overall twist | Star quad |
| Shielding | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering | 85 % |
| External sheath, color | green RAL 6018 |
| Outer sheath thickness | approx. 0.9 mm |
| External cable diameter D | 6.5 mm ±0.2 mm |
| Minimum bending radius, fixed installation | 3 x D |
| Minimum bending radius, flexible installation | 7 x D |
| Cable weight | 67 kg/km |
| Outer sheath, material | PVC |
| Material, inner sheath | PVC |
| Material conductor insulation | PE |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ 500 MΩ*km |
| Loop resistance | ≤ 120.00 Ω/km |
| Wave impedance | 100 Ω ±15 Ω (at 100 MHz) |
| Near end crosstalk attenuation (NEXT) | 80 dB (with 1 MHz) |
| | 76 dB (at 4 MHz) |
| | 70 dB (at 10 MHz) |
| | 65 dB (at 16 MHz) |
| | 10/00/0010 B 0/5 |



Technical data

Cable

| | 63 dB (at 20 MHz) |
|---------------------------------|---|
| | 60 dB (at 31.25 MHz) |
| | 55 dB (at 62.5 MHz) |
| | 50 dB (at 100 MHz) |
| Attenuation | 2.1 dB (with 1 MHz) |
| | 4 dB (at 4 MHz) |
| | 6.3 dB (at 10 MHz) |
| | 8 dB (at 16 MHz) |
| | 9 dB (at 20 MHz) |
| | 11.4 dB (at 31.25 MHz) |
| | 16.5 dB (at 62.5 MHz) |
| | 21.3 dB (at 100 MHz) |
| Signal speed | 0.66 c |
| Signal runtime | 5.3 ns/m |
| Coupling resistance | ≤ 20.00 mΩ/m (at 10 MHz) |
| Nominal voltage, cable | 600 V |
| Test voltage Core/Core | 2000 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 2000 V (50 Hz, 1 min.) |
| Flame resistance | According to UL 1685 (CSA FT 4) |
| Resistance to oil | Resistant to oil to a limited extent |
| Other resistance | UV resistant According to UL 1581, Section 1200 |
| Ambient temperature (operation) | -40 °C 70 °C (cable, fixed installation) |
| | -40 °C 70 °C (cable, flexible installation) |

Environmental Product Compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|
| | No hazardous substances above threshold values |

Drawings

Schematic diagram



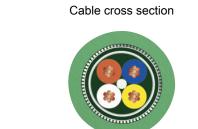
Schematic diagram



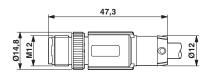
Pin assignment M12 male connector, 4-pos., D-coded, male side

Pin assignment M12 socket, 4-pos., D-coded, female side



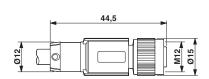


Dimensional drawing



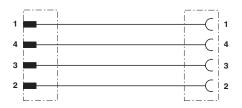
PROFINET PVC stranded CAT5 [93B]

Plug, M12 x 1, straight, shielded



Dimensional drawing





M12 x 1 socket, straight, shielded

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details



RU C-DE.Al30.B.00767



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