

SAC-MRDC2/0,85-937 SCO CV - Bus system cable



1405572

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Bus system cable, PROFINET, 4-pos., RADOX® GKW S, RAL 9005 black, shielded, angled M12 plug, D-coded, SPEEDCON, C2 cable exit, to open cable end, cable length: 0.8 m; product checked according to customer specification/railway application

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1405572 |
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| Product key | AF1CJN |
| GTIN | 4046356749633 |
| Weight per piece (including packing) | 88.658 g |
| Weight per piece (excluding packing) | 78.735 g |
| Country of origin | PL |

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Technical data

Product properties

| | |
|----------------------|-------------------------|
| Product type | Data cable preassembled |
| Sensor type | PROFINET |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | D |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 3 |

Interfaces

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

Electrical properties

| | |
|-----------------------|---------|
| Nominal voltage U_N | 48 V AC |
| | 60 V DC |
| Nominal current I_N | 4 A |

Material specifications

| | |
|--|-----|
| Flammability rating according to UL 94 | V0 |
| Seal material | NBR |

Connector

Connection 1

| | |
|--------------|---|
| Type | Plug angled M12 SPEEDCON |
| Locking type | SPEEDCON |
| Coding type | D (Data) |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PA 6.6 (Contact carrier) |
| | TPU, hardly inflammable, self-extinguishing (Grip body) |
| | Zinc die-cast, nickel-plated (Screw connection) |

Connection 2

| | |
|------|----------------|
| Type | free cable end |
|------|----------------|

Cable/line

| | |
|--------------|-------|
| Cable length | 0.8 m |
|--------------|-------|


PROFINET RADOX® railway application CAT5 [937]

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| | |
|---|---|
| Dimensional drawing |  |
| Cable weight | 70 kg/km |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | PROFINET RADOX® railway application CAT5 [937] |
| Conductor structure | 1x4xAWG22/7, SF/TQ |
| Signal speed | 75 c |
| Conductor structure signal line | 7x 0.25 mm |
| AWG signal line | 22 |
| Conductor cross-section | 4x 0.34 mm ² |
| Wire diameter incl. insulation | approx. 1.5 mm |
| External cable diameter | 6.60 mm ±0.4 mm |
| Outer sheath, material | PE-X |
| External sheath, color | black RAL 9005 |
| Conductor material | silver-plated Cu litz wires |
| Material wire insulation | Foamed PE |
| Single wire, color | white-blue, orange-yellow |
| Thickness, outer sheath | approx. 1.00 mm |
| Overall twist | Star quad |
| Max. conductor resistance | ≤ 54.4 Ω/km |
| Coupling resistance | 200.00 mΩ/m (f ≤ 30 MHz) |
| Wave impedance | 100 Ω ±5 Ω (f = 100 MHz) |
| Working capacitance | ≤ 65 pF (Line-line) ≤ 100 pF (Line-shield) |
| Nominal voltage, cable | 300 V AC |
| Test voltage | 2000 V AC (50 Hz, 5 minutes) |
| Minimum bending radius, fixed installation | 6 x D |
| Smallest bending radius, fixed installation | 40 mm |
| Near end crosstalk attenuation (NEXT) | 73 dB (with 1 MHz) 70 dB (at 4 MHz) 65 dB (at 10 MHz) 57 dB (at 31.5 MHz) 52 dB (at 62.5 MHz) 48 dB (at 100 MHz) |
| Return attenuation (RL) | 25 dB (at 4 MHz) 30 dB (at 10 MHz) 30 dB (at 31.5 MHz) |

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| | |
|-------------------------------------|--|
| | 30 dB (at 62.5 MHz) |
| | 28 dB (at 100 MHz) |
| Remote crosstalk attenuation (FEXT) | 78 dB (with 1 MHz) |
| | 77 dB (at 4 MHz) |
| | 70 dB (at 10 MHz) |
| | 65 dB (at 31.5 MHz) |
| | 56 dB (at 62.5 MHz) |
| | 48 dB (at 100 MHz) |
| | |
| Shield attenuation | 2 dB (with 1 MHz) |
| | 4.4 dB (at 4 MHz) |
| | 7.4 dB (at 10 MHz) |
| | 14 dB (at 31.5 MHz) |
| | 20 dB (at 62.5 MHz) |
| | 26 dB (at 100 MHz) |
| | 40.00 dB (30 MHz ≤ f ≤ 100 MHz) |
| Halogen-free | in accordance with EN 50267-2-1 |
| Flame resistance | IEC 60332-1-2 |
| | EN 50266 |
| | EN 60332-3-25 |
| | NF C32-070, 2.1 |
| | NF C32-070, 2.2 |
| | UL 1685, 12 (FT4) |
| | in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) |
| Fume corrosiveness | EN 50267-2-2 |
| Fume toxicity | BS 6853 B.1 |
| | EN 50305, 9.2 |
| Concentration of fumes | BS 6853 D.8.7 |
| | EN 61034-2 |
| | UL 1685, 12 (FT4) |
| Resistance to oil | according to IRM 902, 72 h at 100 °C |
| Fire protection in rail vehicles | BS 6853 (Category Ia, Ib, II) |
| | GM/RT 2130 (Category Ia, Ib, II) |
| | EN 45545 (Risk level HL1 - HL3) |
| | DIN 5510 (Fire protection level 1, 2, 3, 4) |
| | NF F16-101 (Category A1, A2, B) |
| | NF F16-101 (Class C/F0) |
| | NFPA 130 |
| | UNI CEI 11170 (Risk level LR1 - LR4) |
| Other resistance | Resistance to fuels (according to IRM 903, 168 h at 70 °C) |
| Ambient temperature (operation) | -50 °C ... 90 °C (cable, fixed installation) |
| | -40 °C ... 90 °C (Cable, flexible installation) |
| Ambient temperature (installation) | -25 °C ... 90 °C |

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Classifications

ECLASS

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

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