

Network cable - SACCBP-FSD-4CON-PG9/1,5-937SCO - 1410299

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Network cable, PROFINET CAT5, 4-position, PE-X, black RAL 9005, shielded, Flush-type socket straight M12 SPEEDCON / IP65, Coding: D, on free cable end, Cable length: 1.5 m, Product tested according to customer specification/rail application



Key Commercial Data

| | |
|--------------------------------------|---------|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| Weight per Piece (excluding packing) | 120.0 g |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 1.5 m |
|-----------------|-------|

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP65 |
|----------------------|------|

General data

| | |
|-----------------------|---|
| Note | The cable is 100% electrically tested for continuity. |
| Rated current at 40°C | 4 A |
| Rated voltage | 250 V |
| Number of positions | 4 |
| Signal type/category | PROFINET CAT5 (IEC 11801:2002) |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Overvoltage category | II |
| Degree of pollution | 3 |

Characteristics head 1

| | |
|-----------|--|
| Head type | Flush-type socket straight M12 SPEEDCON / IP65 |
|-----------|--|

Network cable - SACCBP-FSD-4CON-PG9/1,5-937SCO - 1410299

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Characteristics head 1

| | |
|--|--|
| No. of positions (pin connector pattern) | 4 |
| Coding | D (Data) |
| Mounting type | Rear mounting |
| Thread type | Pg9 |
| Color | silver |
| Material (component) | CuZn (Contact) |
| | Au (Contact surface) |
| | PA (Contact carriers) |
| | Zinc die-cast, nickel-plated (Housing) |
| | FKM (Seal) |
| Shielded | yes |
| Test voltage | 500 V DC ± 15 V DC (for 60 s, insulation resistance according to DIN EN 60512-3-1) |
| | 1.4 kV AC (for 60 s, dielectric strength according to DIN EN 60512-4-1) |
| Insertion/withdrawal cycles | ≥ 100 |
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Weight | 15 g ±5 g |

Characteristics head 2

| | |
|-----------|----------------|
| Head type | free cable end |
|-----------|----------------|

Standards and Regulations

| | |
|--|-----------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Flammability rating according to UL 94 | V0 |

Cable

| | |
|------------------------------------|--|
| Cable type | PROFINET railway applications |
| Cable type (abbreviation) | 937 |
| Signal type/category | PROFINET CAT5 (IEC 11801), 100 Mbps |
| Cable structure | 1x4xAWG22/7; SF/TQ |
| Conductor cross section | 4x 0.34 mm ² |
| AWG signal line | 22 |
| Conductor structure signal line | 7x 0.25 mm |
| Core diameter including insulation | approx. 1.5 mm |
| Wire colors | white-blue, orange-yellow |
| Overall twist | Star quad |
| Shielding | Plastic-coated aluminum foil, tinned copper braided shield |
| External sheath, color | black RAL 9005 |

Network cable - SACCBP-FSD-4CON-PG9/1,5-937SCO - 1410299

Technical data

Cable

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| Outer sheath thickness | approx. 1 mm |
| External cable diameter D | 6.6 mm ±0.4 mm |
| Minimum bending radius, fixed installation | 6 x D |
| Cable weight | 70 kg/km |
| Outer sheath, material | PE-X |
| Material conductor insulation | Foamed PE |
| Conductor material | silver-plated Cu litz wires |
| Conductor resistance | ≤ 54.4 Ω/km |
| Working capacitance | ≤ 65 pF (core-core) |
| | ≤ 100 pF (core-shield) |
| Wave impedance | 100 Ω ±5 Ω (f = 100 MHz) |
| Signal speed | 75 c |
| Shield attenuation | 40 dB (30 MHz ≤ f ≤ 100 MHz) |
| Coupling resistance | 200.00 mΩ/m (f ≤ 30 MHz) |
| Nominal voltage, cable | 300 V AC |
| Test voltage, cable | 2000 V AC (50 Hz, 5 minutes) |
| 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) |
| Flame resistance | EN 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) |
| Halogen-free | According to EN 50267-2-1 |
| Resistance to oil | according to IRM 902, 72 h at 100 °C |
| Other resistance | Resistance to fuels according to IRM 903, 168 h at 70 °C |
| Concentration of fumes | BS 6853 D.8.7 |
| | EN 61034-2 |
| | UL 1685, 12 (FT4) |

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Cable

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|------------------------------------|---|
| Fume corrosiveness | EN 50267-2-2 |
| Fume toxicity | BS 6853 B.1 |
| | EN 50305, 9.2 |
| Ambient temperature (operation) | -50 °C ... 90 °C (cable, fixed installation) |
| | -40 °C ... 90 °C (cable, flexible installation) |
| Ambient temperature (installation) | -25 °C ... 90 °C |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 8.0 | 27060308 |
| eCl@ss 9.0 | 27060308 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC002599 |

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

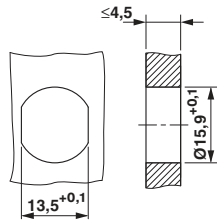
Approval details

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| EAC |
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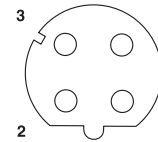
Drawings

Network cable - SACCBP-FSD-4CON-PG9/1,5-937SCO - 1410299

Dimensional drawing



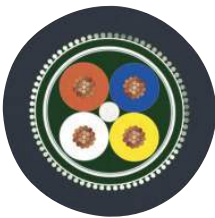
Schematic diagram



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

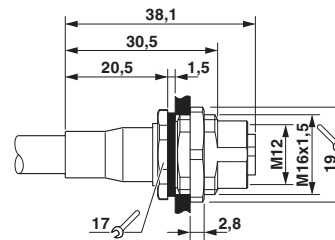
Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

Cable cross section



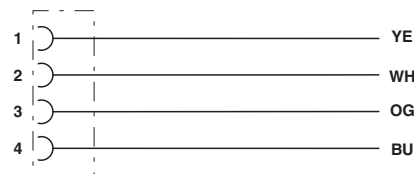
PROFINET railway applications [937]

Dimensional drawing



M12 flush-type connector

Circuit diagram



Contact assignment of the M12 socket