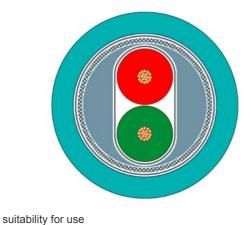
SIEMENS

Data sheet 6XV1830-3EH10

product type designation

product description



PROFIBUS FC Trailing Cable

Continuous motion control in a cable carrier

Highly flexible bus cable (2-core), sold by the meter, unassembled

PROFIBUS FC Trailing Cable, PROFIBUS trailing cable, max. Acceleration 4 m/QS min. 3 million bending cycles min. Bending radius approx. 120 mm 2-wire shielded Sold by the meter Delivery length max. 1000 m Minimum order 20 m

| Suitability for use | Continuous motion control in a cable carrier |
|---|--|
| cable designation | 02YY (ST) C11Y 1x2x0,65/2,56-150 LI KF 40 FR petrol |
| electrical data | |
| attenuation factor per length | |
| • at 9.6 kHz / maximum | 0.003 dB/m |
| • at 38.4 kHz / maximum | 0.004 dB/m |
| • at 4 MHz / maximum | 0.025 dB/m |
| • at 16 MHz / maximum | 0.049 dB/m |
| impedance | |
| rated value | 150 Ω |
| ● at 9.6 kHz | 270 Ω |
| ● at 38.4 kHz | 185 Ω |
| • at 3 MHz 20 MHz | 150 Ω |
| relative symmetrical tolerance | |
| of the characteristic impedance at 9.6 kHz | 10 % |
| of the characteristic impedance at 38.4 kHz | 10 % |
| • of the characteristic impedance at 3 MHz 20 MHz | 10 % |
| loop resistance per length / maximum | 133 mΩ/m |
| shield resistance per length / maximum | 14 Ω/km |
| capacity per length / at 1 kHz | 28 pF/m |
| operating voltage | |
| RMS value | 80 V |
| mechanical data | |
| number of electrical cores | 2 |
| design of the shield | Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires |
| type of electrical connection / FastConnect | Yes |
| outer diameter | |
| of inner conductor | 0.67 mm |
| of the wire insulation | 2.56 mm |
| of the inner sheath of the cable | 5.4 mm |
| of cable sheath | 8 mm |
| symmetrical tolerance of the outer diameter / of cable sheath | 0.4 mm |
| material | |
| of the wire insulation | polyethylene (PE) |
| of the inner sheath of the cable | PVC |
| of cable sheath | PUR (TPE-U) |

| color | rod/groop |
|--|--|
| of the insulation of data wires of cable sheath | red/green petrol |
| bending radius | pelloi |
| with single bend / minimum permissible | 40 mm |
| with single bend / millimum permissible with continuous bending | 120 mm |
| number of bending cycles | 3000000; Drag chain suitable for 3 million bending cycles at a bending |
| number of bending dyoles | radius of 120 mm (15x D), a speed of 4 m/s and an acceleration of 4 m/s ² |
| tensile load / maximum | 100 N |
| weight per length | 77 kg/km |
| ambient conditions | |
| ambient temperature | |
| during operation | -40 +60 °C |
| during storage | -40 +60 °C |
| during transport | -40 +60 °C |
| during installation | -40 +60 °C |
| • note | Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472 |
| ambient condition / for operation | Limited segment length (see manual for PROFIBUS networks) |
| fire behavior | flame resistant according to IEC 60332-1-2 |
| class of burning behaviour / according to EN 13501-6 | Eca |
| chemical resistance | |
| • to mineral oil | oil resistant according to IEC 60811-2-1 (7x24h/90°C) |
| • to grease | resistant |
| • to water | conditional resistance |
| radiological resistance / to UV radiation | resistant |
| product features, product functions, product components | s / general |
| product feature | |
| • halogen-free | No |
| • silicon-free | Yes |
| standards, specifications, approvals | |
| UL/ETL listing / 300 V Rating | Yes; c(UL)us / CMX |
| UL/ETL style / 600 V Rating | Yes; cRU AWM I A/B 80°C 600V FT2 |
| certificate of suitability | Ven |
| EAC approval CE marking | Yes |
| CE marking Part O conformit | Yes |
| RoHS conformity | |
| Marine classification association | Yes |
| Marine classification association | |
| American Bureau of Shipping Europe Ltd. (ABS) | No |
| American Bureau of Shipping Europe Ltd. (ABS)French marine classification society (BV) | No No |
| American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Det Norske Veritas (DNV) | No No No |
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