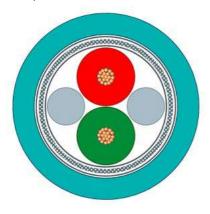
SIEMENS

Data sheet 6XV1830-3GH10

product type designation

product description



PROFIBUS Festoon Cable GP

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

PROFIBUS FESTOON Cable GP for festoon suspension, 2-core shielded max. acceleration: 4 m/QS min. 5 million bending cycles, sold by the meter, Delivery unit: max. 1000 m, minimum order quantity: 20 m.

| suitability for use | Specially for festoon attachment |
|---|--|
| cable designation | 02YS (ST) CY 1 x 2 x 0,65/2,56 LI petrol FR |
| 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 | 19 Ω/km |
| insulation resistance coefficient | 16000 GΩ·m |
| 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 | No |
| outer diameter | |
| of inner conductor | 0.67 mm |
| of the wire insulation | 2.56 mm |
| of the inner sheath of the cable | 5.8 mm |
| of cable sheath | 8 mm |
| symmetrical tolerance of the outer diameter / of cable sheath | 0.3 mm |
| material | |
| of the wire insulation | polyethylene (PE) |
| of cable sheath | PVC |

| color | |
|--|---|
| of the insulation of data wires | red/green |
| of cable sheath | petrol |
| bending radius | |
| with single bend / minimum permissible | 30 mm |
| with continuous bending | 70 mm |
| tensile load / maximum | 80 N |
| weight per length | 64 kg/km |
| ambient conditions | |
| ambient temperature | |
| during operation | -40 +80 °C |
| during storage | -40 +80 °C |
| during transport | -40 +80 °C |
| during installation | -40 +80 °C |
| • note | Electrical properties measured at 20 °C, tests according to DIN 47250 |
| | part 4 respectively DIN VDE 0472 |
| fire behavior | flame resistant according to IEC 60332-3-24 (Category C) |
| class of burning behaviour / according to EN 13501-6 | Eca |
| chemical resistance | |
| • to mineral oil | conditional resistance |
| • to grease | Conditional resistance |
| • to water | conditional resistance |
| radiological resistance / to UV radiation | resistant |
| product features, product functions, product components | / general |
| product feature | |
| • halogen-free | No |
| • silicon-free | Yes |
| standards, specifications, approvals | |
| UL/ETL listing / 300 V Rating | Yes; CMG / PLCT / Sun Res / Oil Res |
| UL/ETL style / 600 V Rating | Yes |
| certificate of suitability | 163 |
| EAC approval | Yes |
| | Yes |
| CE marking Marine classification association | Tes |
| | No |
| American Bureau of Shipping Europe Ltd. (ABS) For solver a sign of the state of the second to | No No |
| • French marine classification society (BV) | No |
| Det Norske Veritas (DNV) | No |
| Germanische Lloyd (GL) | No |
| Lloyds Register of Shipping (LRS) | No |
| Nippon Kaiji Kyokai (NK) Nippon Kaiji Kyokai (NK) | No |
| Polski Rejestr Statkow (PRS) | No |
| reference code | |
| • according to IEC 81346-2 | WG |
| • according to IEC 81346-2:2019 | WGB |
| further information / internet-Links | |
| Internet-Link | |
| to web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| to website: Selection guide for cables and connectors | https://sie.ag/2QdlxcP |
| to website: Image database | http://automation.siemens.com/bilddb |
| to website: CAx-Download-Manager | http://www.siemens.com/cax |
| to website: Industry Online Support | https://support.industry.siemens.com |
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