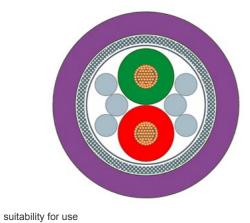
SIEMENS

Data sheet 6XV1830-0PH10

product type designation

product description



PROFIBUS Torsion Cable

For use in moving machine components

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

PROFIBUS torsion cable, for use in highly flexible applications (torsion) Delivery unit: max. 1000 m, minimum order quantity 20 m, sold by the meter

| suitability for use | Tor use in moving machine components |
|---|--|
| cable designation | 02Y (ST) C 11Y 1x2x0,8/2,56-150 LI FR VI |
| electrical data | |
| attenuation factor per length | |
| • at 9.6 kHz / maximum | 0.0025 dB/m |
| • at 38.4 kHz / maximum | 0.003 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 | 98 mΩ/m |
| shield resistance per length / maximum | 14 Ω/km |
| insulation resistance coefficient | 16000 GΩ·m |
| capacity per length / at 1 kHz | 29 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 | 0.8 mm |
| of the wire insulation | 2.56 mm |
| of the inner sheath of the cable | 6 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 cable sheath | PUR (TPE-U) |
| color | |

| Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) reference code according to IEC 81346-2 according to IEC 81346-2:2019 further information / internet links internet link to web page: selection aid TIA Selection Tool to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Selection guide for cables and connectors to website: Image database to website: CAx-Download-Manager to website: Industry Online Support | No WG WGB http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com |
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| Polski Rejestr Statkow (PRS) reference code according to IEC 81346-2 | WG |
| Polski Rejestr Statkow (PRS) reference code | |
| Polski Rejestr Statkow (PRS) | No |
| | No |
| Nippon Kajij Kvokaj (NK) | *** |
| - / | No |
| Lloyds Register of Shipping (LRS) | No |
| Germanische Lloyd (GL) | No |
| Det Norske Veritas (DNV) | No |
| French marine classification society (BV) | No |
| American Bureau of Shipping Europe Ltd. (ABS) | No |
| Marine classification association | |
| RoHS conformity | Yes |
| EAC approval CE marking | Yes |
| ertificate of suitability • EAC approval | Yes |
| UL/ETL style / 600 V Rating | INO |
| UL/ETL style / 600 V Rating | No |
| | Yes; CMX |
| • silicon-tree standards, specifications, approvals | 165 |
| naiogen-iree silicon-free | Yes |
| halogen-free | Yes |
| product features, product functions, product components / gene | |
| product features, product functions, product components / gene | |
| radiological resistance / to UV radiation | resistant |
| • to water | conditional resistance |
| • to grease | resistant |
| • to mineral oil | oil resistant according to IEC 60811-2-1 (7x24h/90°C) |
| chemical resistance | |
| class of burning behaviour / according to EN 13501-6 | Eca |
| fire behavior | flame resistant according to IEC 60332-1-2 |
| • note | Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472 |
| during installation | -25 +75 °C |
| during transport | -40 +80 °C |
| during storage | -40 +80 °C |
| during operation | -25 +75 °C |
| ambient temperature | |
| ambient conditions | |
| weight per length | 65 kg/km |
| tensile load / maximum | 100 N |
| length | |
| number of torsion cycles / with torsion by ± 180° on 1 m cable | 5000000 |
| number of bending cycles | Not suitable for garland usage |
| with continuous bending | 60 mm |
| with single bend / minimum permissible | 30 mm |
| bending radius | VIOLE |
| bending radius | Violet |
| of the insulation of data wires of cable sheath bending radius | red/green |