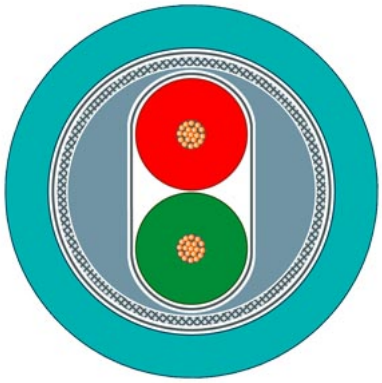
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## Data sheet 6XV1830-3EH10

| | |
|---|---|
| **product type designation** | **PROFIBUS FC Trailing Cable** |
| product description | 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 unit max. 1000 m minimum order quantity 20 m.



| | |
|---|---|
| Technical Product Detail Page | https://i.siemens.com/1P6XV1830-3EH10 |
| 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 |
| wire length | sold by the meter |
| **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) |


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| | |
|---|---|
| ● of the inner sheath of the cable | PVC |
| ● of cable sheath | PUR (TPE-U) |
| color | |
| ● of the insulation of data wires | red/green |
| ● of cable sheath | petrol |
| bending radius | |
| ● with single bend / minimum permissible | 40 mm |
| ● with continuous bending | 120 mm |
| number of bending cycles | 3000000; Drag chain suitable for 3 million bending cycles at a bending radius of 120 mm (15x D), a speed of 4 m/s and an acceleration of 4 m/s² |
| 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 |
| 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 / 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 | |
| ● EAC approval | Yes |
| ● CE marking | Yes |
| ● RoHS conformity | Yes |
| Marine classification association | |
| ● American Bureau of Shipping Europe Ltd. (ABS) | 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) | No |
| ● Polski Rejestr Statkow (PRS) | No |
| **further information / internet links** | |
| internet link | |
| ● to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to web page: SiePortal | https://sieportal.siemens.com/ |
| ● to website: Image database | https://www.automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | https://www.siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and |


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## Approvals / Certificates

### General Product Approval

| | | | | | |
|---|---|---|---|---|---|
| Manufacturer Declaration | CE EG-Konf. | UKCA | Declaration of Conformity | CCC | Fire safety / Physical security |

| General Product Approval | | other | Environment |
|---|---|---|---|
| China RoHS | RCM | Miscellaneous | Environmental Confirmations |

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