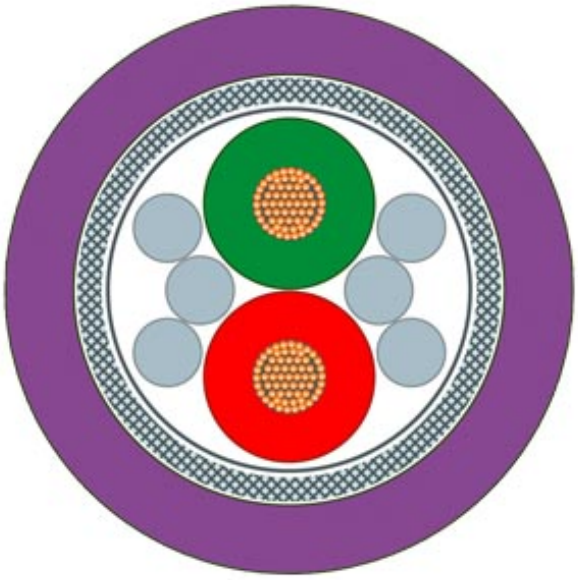
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Data sheet 6XV1830-0PH10

product type designation
product description

PROFIBUS Torsion Cable
Highly flexible bus cable (2-core), sold by the meter, unassembled PROFIBUS torsion cable, to use in highly flexible applications (torsion) Delivery unit: max. 1000 m, minimum order 20 m, Sold by the meter



suitability for use	For 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 %

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• 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	
• of the insulation of data wires	red/green
• of cable sheath	Violet
bending radius	
• with single bend / minimum permissible	30 mm
• with continuous bending	60 mm
number of bending cycles	Not suitable for garland usage
number of torsion cycles / with torsion by ± 180° on 1 m cable length	5000000
tensile load / maximum	100 N
weight per length	65 kg/km

ambient conditions	
ambient temperature	
• during operation	-25 ... +75 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-25 ... +75 °C
• note	Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472

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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	Yes
• silicon-free	Yes

standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; CMX
UL/ETL style / 600 V Rating	No
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: Selector TIA Selection Tool	http://www.siemens.com/snst
• 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: 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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