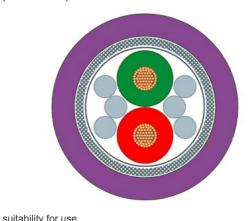
SIEMENS

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, for use in highly flexible applications (torsion) Delivery unit: max. 1000 m, minimum order quantity 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 %
• 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
nechanical 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)

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	
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