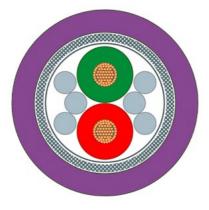
SIEMENS

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
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	*10.00
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	5000000
length	
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
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 / gene	eral
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
reference code	
 according to IEC 81346-2 	WG
• according to IEC 81346-2:2019	WGB
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 website: Industrial communication 	https://www.siemens.com/simatic-net
• 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

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Approvals / Certificates

General Product Approval



Manufacturer Declaration



Declaration of Conformity





Environment Industrial Communication

Confirmation PROFINET

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