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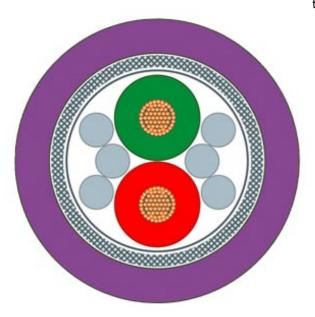
Data sheet

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 %

• 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

number of electrical cores	
	2
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of
	tin-plated copper wires
ype 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	0.4 mm
sheath	
naterial	
 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
pending 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 \pm 180° on 1	500000
n cable length	
ensile load / maximum	100 N
veight per length	65 kg/km

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 compo	nents / 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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