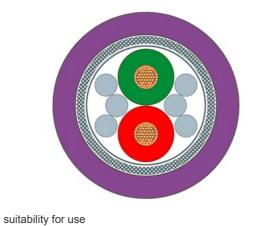
## **SIEMENS**

Data sheet 6XV1830-0PH10

## product type designation

product description



## **PROFIBUS Torsion Cable**

For use in moving machine components

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

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	
<ul> <li>of the characteristic impedance at 9.6 kHz</li> </ul>	10 %
<ul> <li>of the characteristic impedance at 38.4 kHz</li> </ul>	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	
<ul> <li>of inner conductor</li> </ul>	0.8 mm
<ul> <li>of the wire insulation</li> </ul>	2.56 mm
<ul> <li>of the inner sheath of the cable</li> </ul>	6 mm
of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	
<ul> <li>of the wire insulation</li> </ul>	polyethylene (PE)
<ul> <li>of cable sheath</li> </ul>	PUR (TPE-U)

anlar	
color  ● of the insulation of data wires	red/green
of cable sheath	Violet
bending radius	VIOIEL
with single bend / minimum permissible	30 mm
with single bend / minimum permissible     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	5000000
cable length	300000
tensile load / maximum	100 N
weight per length	65 kg/km
ambient conditions	
ambient temperature	
<ul><li>during operation</li></ul>	-25 +75 °C
during storage	-40 +80 °C
<ul> <li>during transport</li> </ul>	-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	/ 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	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
French marine classification society (BV)	
• FIGURE HIGHLING CIASSINGALION SOCIETY (DV)	No
Det Norske Veritas (DNV)	No No
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<ul><li>Det Norske Veritas (DNV)</li><li>Germanische Lloyd (GL)</li></ul>	No
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