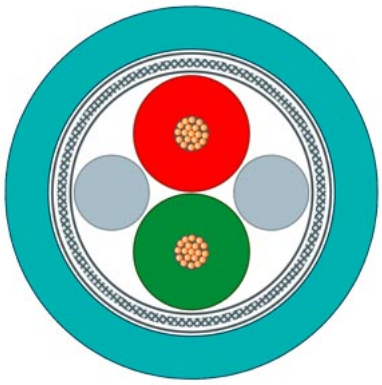
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Data sheet 6XV1830-3GH10

product type designation	**PROFIBUS Festoon Cable GP**
product description	Flexible bus cable (2-core), sold by the meter, unassembled

PROFIBUS FESTOON Cable GP for festoon suspension, 2-core shielded max. acceleration: 4 m/QS min. 5 million bending cycles, sold by the meter, Delivery unit: max. 1000 m, Minimum order quantity: 20 m



suitability for use	Specially for festoon attachment
cable designation	02YS (ST) CY 1 x 2 x 0,65/2,56 LI petrol FR
electrical data	
attenuation factor per length	
● at 9.6 kHz / maximum	0.003 dB/m
● at 38.4 kHz / maximum	0.004 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	133 mΩ/m
shield resistance per length / maximum	19 Ω/km
insulation resistance coefficient	16000 GΩ·m
capacity per length / at 1 kHz	28 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	0.67 mm
● of the wire insulation	2.56 mm
● of the inner sheath of the cable	5.8 mm
● of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
material	

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● of the wire insulation	polyethylene (PE)
● of cable sheath	PVC
color	
● of the insulation of data wires	red/green
● of cable sheath	petrol
bending radius	
● with single bend / minimum permissible	30 mm
● with continuous bending	70 mm
tensile load / maximum	80 N
weight per length	64 kg/km
ambient conditions	
ambient temperature	
● during operation	-40 ... +80 °C
● during storage	-40 ... +80 °C
● during transport	-40 ... +80 °C
● during installation	-40 ... +80 °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 60332-3-24 (Category C)
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
● to mineral oil	conditional resistance
● to grease	Conditional resistance
● to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
● halogen-free	No
● silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; CMG / PLCT / Sun Res / Oil Res
UL/ETL style / 600 V Rating	Yes
certificate of suitability	
● EAC approval	Yes
● CE marking	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 web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
● to website: Industrial communication	http://www.siemens.com/simatic-net
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● to website: CAx-Download-Manager	http://www.siemens.com/cax
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