SIEMENS

Data sheet 6XV1830-5GH10

product type designation

product description

Foundation Fieldbus Cable

Bus cable (2-core), sold by the meter, unassembled

Foundation Fieldbus Cable; bus cable for IEC 61158-2; sheath color blue for Ex applications; 2-core shielded; stranded drain wire; Sold by the meter delivery unit max. 1000 m minimum order quantity 20 m.



suitability for use	For use in fieldbus systems according to IEC 61158-2 (e.g. Foundation Fieldbus), suitable for Ex applications
cable designation	2X(ST)CY 1X2X1.1/2.85-100 LI BL FR OE
electrical data	
attenuation factor per length	
• at 38.4 kHz / maximum	0.003 dB/m
impedance	
rated value	100 Ω
● at 31.25 kHz	100 Ω
● at 38.4 kHz	100 Ω
relative symmetrical tolerance	
 of the characteristic impedance at 31.25 kHz 	20 %
 of the characteristic impedance at 38.4 kHz 	20 %
loop resistance per length / maximum	46 mΩ/m
shield resistance per length / maximum	10 Ω/km
capacity per length / at 1 kHz	65 pF/m
inductance per length	0.75 μH/m
operating voltage	
RMS value	300 V
mechanical data	
number of electrical cores	2
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided shield of tin-plated copper wires with shield wire
type of electrical connection / FastConnect	No
outer diameter	
 of inner conductor 	1.17 mm
 of the wire insulation 	2.85 mm
 of the inner sheath of the cable 	6.4 mm
of cable sheath	8.5 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
material	
of the wire insulation	polyethylene (PE)
of cable sheath	PVC
color	
 of the insulation of data wires 	blue/brown
of cable sheath	blue
bending radius	
 with single bend / minimum permissible 	34 mm

100 N
98 kg/km
-40 +105 °C
Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
Transfer rate of cable: 31.25 Kbit/s
flame resistant according to IEC 60332-1-2
Eca
200
conditional resistance
Conditional resistance
conditional resistance
resistant
eral
Crair
No
Yes
V (III) 010 (BLT0 (0 B
Yes; c(UL)us, CMG / PLTC / Sun Res
No
L.
Yes
Yes
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
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