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

tensile load / maximum	100 N
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weight per length	98 kg/km
ambient conditions	
ambient temperature	40 1405 00
during operation	-40 +105 °C
during storage	-40 +105 °C
during transport	-40 +105 °C
during installation	-40 +105 °C
• note	Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
ambient condition / for operation	Transfer rate of cable: 31.25 Kbit/s
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	conditional resistance
• to grease	Conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / gene	eral
product feature	
• halogen-free	No
• silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(UL)us, CMG / PLTC / Sun Res
UL/ETL style / 600 V Rating	No
certificate of suitability	
EAC approval	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
	NO .
reference code	WG
according to IEC 81346-2 according to IEC 81246 3:2010	WG WCP
• according to IEC 81346-2:2019	WGB
further information / internet links internet link	
	https://support.industry.siemens.com/cs/ww/en/view/109766358
to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool	· · · · · · · · · · · · · · · · · · ·
to web page: selection aid TIA Selection Tool to web page: SigPortal	https://www.siemens.com/tstcloud
to web page: SiePortal to websits: Image database	https://sieportal.siemens.com/
to website: Image database to website: CAy Dayreland Manager	https://www.automation.siemens.com/bilddb
to website: CAx-Download-Manager to web site Industry Calling Compact	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 solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase

Approvals / Certificates

General Product Approval





Manufacturer Declaration Declaration of Conformity





Test Certificates	Environment	
Special Test Certificate	Confirmation	
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