

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 length max. 1000 m Minimum order 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	
damping ratio per length	
<ul style="list-style-type: none"> at 38.4 kHz / maximum 	0.003 dB/m
impedance	
<ul style="list-style-type: none"> rated value at 31.25 kHz at 38.4 kHz 	100 Ω
relative symmetrical tolerance	
<ul style="list-style-type: none"> of the characteristic impedance at 31.25 kHz 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	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • of inner conductor • of the wire insulation • of the inner sheath of the cable • of cable sheath 	1.17 mm 2.85 mm 6.4 mm 8.5 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
material	
<ul style="list-style-type: none"> • of the wire insulation • of cable sheath 	polyethylene (PE) PVC
color	
<ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath 	blue/brown blue
bending radius	
<ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	34 mm 68 mm
tensile load / maximum	100 N
weight per length	98 kg/km

ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • note 	-40 ... +105 °C -40 ... +105 °C -40 ... +105 °C -40 ... +105 °C 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
burning behavior	flame resistant according to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Fca
chemical resistance	
<ul style="list-style-type: none"> • to mineral oil • to grease • to water 	conditional resistance Conditional resistance 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; c(UL)us, CMG / PLTC / Sun Res
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UL/ETL style / 600 V Rating	No
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certificate of suitability	
• EAC approval	Yes
• RoHS conformity	Yes

Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• Bureau Veritas (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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