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Data sheet

6XV1830-0LH10

product type designation	PROFIBUS FC FRNC Cable GP		
product description	Flame retardant, halogen-free bus cable (2-core), sold by the meter, unassembled		
	PROFIBUS FC FRNC Cable GP, flame-retardant bus cable and halogen-free bus cable with copolymer sheath, FRNC sold by the meter, delivery unit max. 1000 m minimum order quantity 20 m .		
suitability for use	Halogen-free cable, suitable for use in buildings		
cable designation	02YSH (ST) CH 1x2x0,64/2,55-150 VI KF 25 FRNC FC		
lectrical data			
attenuation factor per length			
at 9.6 kHz / maximum	0.0025 dB/m		
• at 38.4 kHz / maximum	0.004 dB/m		
• at 4 MHz / maximum	0.022 dB/m		
• at 16 MHz / maximum	0.042 dB/m		
impedance	0.012 (15)/11		
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	100 12		
of the characteristic impedance at 9.6 kHz	10 %		
of the characteristic impedance at 3.0 kHz	10 %		
of the characteristic impedance at 30.4 kHz	10 %		
loop resistance per length / maximum	10 /δ 110 mΩ/m		
shield resistance per length / maximum	9.5 Ω/km		
capacity per length / at 1 kHz	28.5 pF/m		
operating voltage	00.1/		
RMS value	80 V		
nechanical data	2		
number of electrical cores design of the shield	2 Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires		
type of electrical connection / FastConnect	Yes		
outer diameter			
of inner conductor	0.65 mm		
of the wire insulation	2.55 mm		
of the inner sheath of the cable	5.4 mm		
of cable sheath	5.4 mm 8 mm		
	0.4 mm		
symmetrical tolerance of the outer diameter / of cable sheath	0.4 11111		
 of the wire insulation 	nolvothylana (PE)		
	polyethylene (PE)		
	FDNO		
 of the inner sheath of the cable of cable sheath 	FRNC FRNC		

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 of the insulation of data wires 	red/green		
 of the insulation of data wires of cable sheath 	Violet		
• of cable sheath bending radius	VIOLU		
	60 mm		
with single bend / minimum permissible with multiple bends / minimum permissible	80 mm		
with multiple bends / minimum permissible tensile load / maximum	100 N		
weight per length			
ambient conditions	72 kg/km		
ambient temperature	-25 +80 °C		
during operation during storage	-25 +80 °C		
during transport	-25 +80 °C		
during installation	-25 +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), IEC 60332-3-22 (Category A), EN 50267-2-1/2, IEC 61034		
class of burning behaviour / according to EN 13501-6	Eca		
chemical 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	Yes		
• silicon-free	Yes		
 low-emission according to IEC 61034-2 	Yes		
standards, specifications, approvals			
UL/ETL listing / 300 V Rating	Yes; c(UL)us, CM / CL3 / Sun Res		
UL/ETL style / 600 V Rating	Yes		
certificate of suitability			
 EAC approval 	Yes		
CE marking	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		
reference code			
according to IEC 81346-2	WG		
according to IEC 81346-2:2019	WGB		
further information / internet links			
internet link			
• to website: Image database	https://www.automation.siemens.com/bilddb		
to website: Industry Online Support	https://support.industry.siemens.com		
security information			
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