SIEMENS

Data sheet

6XV1830-0LH10

product type designation product description	PROFIBUS FC FRNC Cable GP	
	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		
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	110 mΩ/m	
shield resistance per length / maximum	9.5 Ω/km	
capacity per length / at 1 kHz	28.5 pF/m	
operating voltage		
RMS value	80 V	
echanical 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	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	
	8 mm	
 of cable sheath 		
of cable sheath symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm	
	0.4 mm	
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm polyethylene (PE)	
symmetrical tolerance of the outer diameter / of cable sheath material		

rad/area
red/green Violet
Violet
60 mm
60 mm 80 mm
100 N
72 kg/km
-25 +80 °C
Electrical properties measured at 20 °C, tests according to DIN 47250 part 4
respectively DIN VDE 0472
flame resistant according to IEC 60332-3-24 (Category C), IEC 60332-3-22 (Category A), EN 50267-2-1/2, IEC 61034
Eca
oil resistant according to IEC 60811-2-1 (4 h / 70°C)
Conditional resistance
conditional resistance
resistant
ral
Yes; halogen-free according to EN 50267-2-1/2
Yes
Yes
Yes; c(UL)us, CM / CL3 / Sun Res
Yes
Yes
Yes
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