SIEMENS

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Data sheet

product type designation product description

6XV1830-0EH10

PROFIBU	S FC	Standard	Cable	GP
LICOLIDO	510	Stanuaru	Cable	UL.

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

PROFIBUS FC Standard Cable GP, bus cable 2-wire, shielded special configuration for quick assembly, Delivery unit: max. 1000 m, Minimum order 20 m Sold by the meter

suitability for use	Standard cable specially designed for fast, permanent installation	
cable designation	02YSY (ST) CY 1x2x0,64/2,55-150 VI KF 40 FR	
electrical 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	100 V	
mechanical 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	
of cable sheath	8 mm	
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm	
material		
of the wire insulation	polyethylene (PE)	
 of the inner sheath of the cable 	PVC	
 of cable sheath 	PVC	

color	<i>u</i>		
 of the insulation of data wires 	red/green		
of cable sheath	Violet		
bending radius			
 with single bend / minimum permissible 	37.5 mm		
with multiple bends / minimum permissible	75 mm		
tensile load / maximum	100 N		
weight per length	78 kg/km		
ambient conditions			
ambient temperature			
 during operation 	-40 +75 °C		
 during storage 	-40 +75 °C		
during transport	-40 +75 °C		
during installation	-40 +75 °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) and UL 1685		
	(CSA FT 4)		
class of burning behaviour / according to EN 13501-6	Eca		
chemical resistance			
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)		
● to grease	Conditional resistance		
• to water	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(ETL)us, CMG / (ETL)us CL3 / Sun Res		
UL/ETL style / 600 V Rating	Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2		
certificate of suitability			
• EAC approval	Yes		
• CE marking	Yes		
UL 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		
reference code			
• acc. to IEC 81346-2	WG		
 according to IEC 81346-2:2019 	WGB		
further information / internet-Links			
Internet-Link			
	http://www.siemens.com/tia-selection-tool		
 to web page: selection aid TIA Selection Tool to website: Industrial communication 	http://www.siemens.com/simatic-net		
to website: Industrial communication to website: Industry Mall			
-	https://mall.industry.siemens.com		
to website: Information and Download Center	http://www.siemens.com/industry/infocenter		
 to website: Selection guide for cables and connectors 	https://sie.ag/2QdlxcP		
 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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