SIEMENS

Data sheet 6XV1830-0EH10

product type designation

product description



PROFIBUS FC Standard Cable GP

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 quantity 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	
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	
nechanical 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	

of the insulation of data wires	red/green	
of the insulation of data wires of cable sheath	Violet	
	VIOIGE	
bending radius	27.5 mm	
with single bend / minimum permissible with multiple bends / 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 / gene	eral	
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	Tes, Civous Avvivi 21034 Avvivi 1 Alb 00 C 000 V 1 12	
EAC approval	Yes	
CE marking	Yes	
UL approval	Yes	
RoHS conformity	Yes	
Marine classification association	165	
American Bureau of Shipping Europe Ltd. (ABS)	No	
•	No No	
French marine classification society (BV) Pat Naraka Varitae (DNV)	No No	
Det Norske Veritas (DNV) Oarragriade - Hand (OL)	No	
Germanische Lloyd (GL) Lloyde Paristan of Objection (LDO)	No	
Lloyds Register of Shipping (LRS)	No	
Nippon Kaiji Kyokai (NK) 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		
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	

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Approvals / Certificates

General Product Approval

other

Manufacturer Declaration





Declaration of Conformity



Manufacturer Declaration

other	Environment		
Confirmation	Confirmation		
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