## 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	
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	100.32	
of the characteristic impedance at 9.6 kHz	10 %	
<ul> <li>of the characteristic impedance at 38.4 kHz</li> </ul>	10 %	
<ul> <li>of the characteristic impedance at 3 MHz 20 MHz</li> </ul>	10 %	
loop resistance per length / maximum	110 mΩ/m	
shield resistance per length / maximum	9.5 Ω/km	
· · ·	28.5 pF/m	
capacity per length / at 1 kHz	20.3 pr/m	
operating voltage	00.1/	
RMS value	80 V	
mechanical data		
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	
<ul> <li>of the inner sheath of the cable</li> </ul>	5.4 mm	
<ul> <li>of cable sheath</li> </ul>	8 mm	
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm	
material		
	nolvethylene (PE)	
• of the wire insulation	polyethylene (PE)	
	polyethylene (PE) PVC PVC	

<ul> <li>of the insulation of data wires</li> </ul>	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	ro kyrkin	
ambient temperature		
	-40 +75 °C	
during operation	-40 +75 °C	
during storage		
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		
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	103, 01003 AWW 21004 AWW 17/10 00 0 0000 1 12	
EAC approval	Yes	
• CE marking	Yes	
UL approval	Yes	
RoHS conformity	Yes	
Marine classification association		
American Bureau of Shipping Europe Ltd. (ABS)	No	
<ul> <li>French marine classification society (BV)</li> </ul>	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	WG	
according to IEC 81346-2	WG	
according to IEC 81346-2:2019 further information / internet links	WGB	
internet link	https://gupport.inductor.ciomons.com/ac/unu/ac/uiou/400766350	
to website: Selection guide for cables and connectors     to web page: calection aid TIA Selection Tecl	https://support.industry.siemens.com/cs/ww/en/view/109766358	
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	
• to web page: SiePortal	https://sieportal.siemens.com/	
to website: Image database     to website: CAN Developed Manager	https://www.automation.siemens.com/bilddb	
to website: CAx-Download-Manager	https://www.siemens.com/cax	
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	

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## Approvals / Certificates

General Product Approval



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