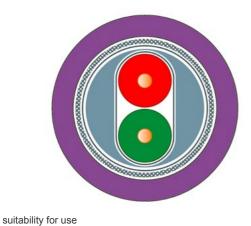
SIEMENS

Data sheet 6XV1830-0LH10

product type designation

product description



PROFIBUS FC FRNC Cable GP

Halogen-free cable, suitable for use in buildings

flame-retardant and halogen-free bus cable acc. to IEC 60754-1/2 (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.

catability for acc	Training of the data of the data in ballange
cable designation	02YSH (ST) CH 1x2x0,64/2,55-150 VI KF 25 FRNC FC
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 	80 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 	FRNC
of cable sheath	FRNC
color	

of the insulation of data wires	red/green
of the institution of data wires of cable sheath	Violet
	VIOLE
bending radius	60
with single bend / minimum permissible	60 mm
with multiple bends / minimum permissible	80 mm
tensile load / maximum	100 N
weight per length	72 kg/km
ambient conditions	
ambient temperature	
during operation	-25 +80 °C
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 mineral oil	oil-resistant according to IEC 60811-401
• 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; halogen-free according to EN 60754-1-2
• 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	https://gupport.industry.gigmons.com/ashay/anh/asy/400766250
to website: Selection guide for cables and connectors to web page; selection guid TIA Selection Tool	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud
to web page: selection aid TIA Selection Tool to web page: SigPortal	
to web page: SiePortal to website: Image database	https://sieportal.siemens.com/
to website: Image database to website: CAx Dewpload Manager	https://www.automation.siemens.com/bilddb
to website: CAx-Download-Manager to website: Industry Online Support	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

Manufacturer Declaration



Declaration of Conformity







Environment

Confirmation

last modified:

8/8/2024