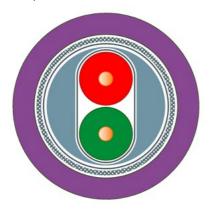
SIEMENS

6XV1830-0EH10 **Data sheet**

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 cable designation Standard cable specially designed for fast, permanent installation 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 design of the shield

type of electrical connection / FastConnect outer diameter

- of inner conductor
- of the wire insulation
- of the inner sheath of the cable
- of cable sheath

symmetrical tolerance of the outer diameter / of cable sheath

- of the wire insulation
- of the inner sheath of the cable
- of cable sheath

color

• of the insulation of data wires

Overlapped aluminum-clad foil, sheathed in a braided screen of tinplated copper wires

Yes

0.65 mm 2.55 mm 5.4 mm 8 mm 0.4 mm

polyethylene (PE)

PVC PVC

red/green

 of cable sheath Violet bending radius 37.5 mm • with single bend / minimum permissible • 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 -40 ... +75 °C • during transport -40 ... +75 °C during installation Electrical properties measured at 20 °C, tests according to DIN 47250 note 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) Conditional resistance • to grease conditional resistance to water radiological resistance / to UV radiation resistant product features, product functions, product components / general product feature • halogen-free Nο • silicon-free Yes standards, specifications, approvals UL/ETL listing / 300 V Rating Yes; c(ETL)us, CMG / (ETL)us CL3 / Sun Res Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 UL/ETL style / 600 V Rating 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) Nο Nippon Kaiji Kyokai (NK) No Polski Rejestr Statkow (PRS) No reference code WG • according to IEC 81346-2 • according to IEC 81346-2:2019 **WGB** Internet-Link • to web page: selection aid TIA Selection Tool http://www.siemens.com/tia-selection-tool • to website: Industrial communication http://www.siemens.com/simatic-net • to website: Industry Mall https://mall.industry.siemens.com • to website: Information and Download Center http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP • to website: Selection guide for cables and connectors http://automation.siemens.com/bilddb • to website: Image database • to website: CAx-Download-Manager http://www.siemens.com/cax • to website: Industry Online Support https://support.industry.siemens.com 10/30/2021 last modified: