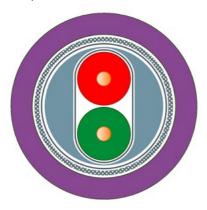
# **SIEMENS**

6XV1830-0ET10 **Data sheet** 

## product type designation

product description



### **PROFIBUS FC Standard Cable GP**

Standard bus cable (2 wires), preferred length, not assembled

PROFIBUS FC Standard, bus cable 2-wire, shielded, special configuration for Quick assembly 100 m.

suitability for use cable designation wire length

02YSY (ST) CY 1x2x0,64/2,55-150 VI KF 40 FR 100 m

### electrical data

- at 9.6 kHz / maximum
- at 16 MHz / maximum

#### impedance

- at 38.4 kHz
- at 3 MHz ... 20 MHz

## relative symmetrical tolerance

- of the characteristic impedance at 38.4 kHz
- of the characteristic impedance at 3 MHz ... 20 MHz

loop resistance per length / maximum capacity per length / at 1 kHz operating voltage

Standard cable specially designed for fast, permanent installation

0.0025 dB/m 0.004 dB/m

0.022 dB/m

0.042 dB/m

150 Ω

270 Ω 185 Ω

150 Ω

10 %

10 %

10 %

110 mΩ/m

 $9.5 \Omega/km$ 

28.5 pF/m

100 V

- - at 38.4 kHz / maximum
  - at 4 MHz / maximum

  - rated value
  - at 9.6 kHz

- of the characteristic impedance at 9.6 kHz

shield resistance per length / maximum

• RMS value

number of electrical cores design of the shield

mechanical data

outer diameter

Overlapped aluminum-clad foil, sheathed in a braided screen of tin-

Yes

of inner conductor

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

type of electrical connection / FastConnect

of cable sheath

symmetrical tolerance of the outer diameter / of cable sheath

material

color

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

plated copper wires

0.65 mm

2.55 mm

5.4 mm

8 mm 0.4 mm

polyethylene (PE)

**PVC** 

**PVC** 

• 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 -40 ... +75 °C • during storage -40 ... +75 °C during transport · during installation -40 ... +75 °C Electrical properties measured at 20 °C, tests according to DIN 47250 note part 4 respectively DIN VDE 0472 flame resistant according to IEC 60332-3-24 (Category C) and UL 1685 fire behavior (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 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 Yes; c(ETL)us, CMG / (ETL)us CL3 / Sun Res UL/ETL listing / 300 V Rating 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) Nο • Lloyds Register of Shipping (LRS) No Nippon Kaiji Kyokai (NK) No • Polski Rejestr Statkow (PRS) No reference code • according to IEC 81346-2 WG WGB • according to IEC 81346-2:2019 further information / internet-Links 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 • to website: Selection guide for cables and https://sie.ag/2QdlxcP connectors • 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 10/30/2021 last modified: