SIEMENS

6XV1840-2AN20 **Data sheet**

product description



Standard bus cable (4 wires), preferred length, not assembled

IE FC TP Standard Cable GP 2x2 (PROFINET Type A), CAT5E, bus cable 4-wire, shielded, special configuration for quick assembly to IE FC RJ45 PLUG 2x2, 20 m.

suitability for use cable designation wire length

20 m

electrical data

attenuation factor per length

- at 10 MHz / maximum
- at 100 MHz / maximum

impedance

• at 1 MHz ... 100 MHz

relative symmetrical tolerance

• of the characteristic impedance at 1 MHz ... 100 MHz

near-end crosstalk per length

• at 1 MHz ... 100 MHz transfer impedance per length / at 10 MHz loop resistance per length / maximum

operating voltage

• RMS value

NVP value in percent

Standard cable with rigid cores for fast installation 2YY (ST) CY 2x2x0,64/1,5-100 GN SF/UTP

0.052 dB/m 0.195 dB/m

100 Ω

15 %

0.5 dB/m

10 mΩ/m 115 m Ω /m

80 V 66 %

mechanical data

number of electrical cores design of the shield

type of electrical connection / FastConnect core diameter

of AWG22 insulated conductor

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

material

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

color

- of the insulation of data wires
- · of cable sheath

bending radius

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

Yes

0.64 mm

0.64 mm

1.5 mm

3.9 mm 6.5 mm

0.2 mm

polyethylene (PE)

PVC **PVC**

white/yellow/blue/orange

green

• with single bend / minimum permissible 19.5 mm • with multiple bends / minimum permissible 49 mm 150 N tensile load / maximum weight per length 61 kg/km ambient conditions ambient temperature during operation -40 ... +75 °C • during storage -40 ... +75 °C during transport -40 ... +75 °C • during installation -40 ... +60 °C Electrical properties measured at 20 °C, tests according to DIN VDE note fire behavior flame resistant according to IEC 60332-3-24 (Cat. 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 conditional resistance to water resistant radiological resistance / to UV radiation product features, product functions, product components / general product feature • halogen-free No • silicon-free Yes wire length / for Industrial Ethernet • with 100BaseTX 100 m standards, specifications, approvals UL/ETL listing / 300 V Rating Yes; c(ETL)us / CMG / (ETL)us PLTC/ ITC / Sun Res Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 UL/ETL style / 600 V Rating certificate of suitability Yes • EAC approval CE marking Yes RoHS conformity Yes standard for structured cabling Cat5e 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 2/3/2023 last modified: