SIEMENS

6XV1840-2AT20 **Data sheet**

product description



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

IE FC TP Standard Cable 2x2, (PROFINET Type A), CAT5E, bus cable 4wire, shielded, special configuration for quick assembly to IE FC RJ45 plug 2x2, 200 m.

suitability for use cable designation wire length

Standard cable with rigid cores for fast installation 2YY (ST) CY 2x2x0,64/1,5-100 GN SF/UTP 200 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

0.195 dB/m

0.052 dB/m

- 100 Ω

15 %

- 0.5 dB/m $10 \text{ m}\Omega/\text{m}$
- 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: