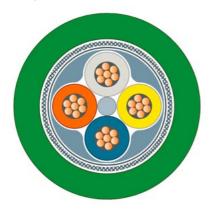
SIEMENS

Data sheet 6XV1870-2B

product description



Flexible bus cable (4-core), sold by the meter, unassembled

Industrial Ethernet FC TP flexible cable, GP 2x2 (PROFINET Type B), TP installation cable with flexible cores, PROFINET type B, 4-core, shielded, Cat5, sold by the meter, delivery unit max. 2500 m minimum order quantity 20 m

suitability for use cable designation

For occasionally moved machine parts 2YY (ST) CY 2x2x0,75/1,5-100 LI GN SF/UTP

electrical data	
attenuation factor per length	
at 10 MHz / maximum	0.06 dB/m
at 100 MHz / maximum	0.21 dB/m
impedance	
• at 1 MHz 100 MHz	100 Ω
relative symmetrical tolerance	
 of the characteristic impedance at 1 MHz 100 MHz 	15 %
near-end crosstalk per length	
• at 1 MHz 100 MHz	0.5 dB/m
transfer impedance per length / at 10 MHz	20 mΩ/m
loop resistance per length / maximum	120 mΩ/m
operating voltage	
 RMS value 	80 V
NVP value in percent	66 %

mechanical data

4
Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires
Yes
0.75 mm
0.75 mm
1.5 mm
3.9 mm

6.5 mm

0.2 mm

• 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

• with single bend / minimum permissible

polyethylene (PE)

PVC PVC

white/yellow/blue/orange green

32.5 mm

• with multiple bends / minimum permissible 52 mm 150 N tensile load / maximum weight per length 68 kg/km ambient conditions ambient temperature -25 ... +75 °C · during operation -25 ... +75 °C during storage during transport -25 ... +75 °C during installation -10 ... +60 °C Electrical properties measured at 20 °C, tests according to DIN VDE note fire behavior flame resistant according to UL 1685 (CSA FT 4) class of burning behaviour / according to EN 13501-6 chemical resistance • to mineral oil oil resistant according to IEC 60811-404 (7x24h/90°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 wire length / for Industrial Ethernet • with 100BaseTX 85 m standards, specifications, approvals UL/ETL listing / 300 V Rating Yes; c(ETL)us, CMG / (ETL)us PLTC / Sun Res / OIL RES UL/ETL style / 600 V Rating Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 certificate of suitability EAC approval Yes 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) No Nippon Kaiji Kyokai (NK) No • Polski Rejestr Statkow (PRS) Nο reference code WG • according to IEC 81346-2 • according to IEC 81346-2:2019 **WGB** 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 http://www.siemens.com/cax • to website: CAx-Download-Manager https://support.industry.siemens.com • to website: Industry Online Support last modified: