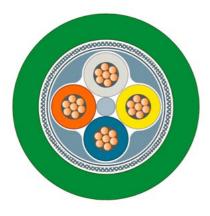
## **SIEMENS**

Data sheet 6XV1871-2F

## product type designation

product description



## IE FC TP FRNC Cable GP 2x2 (Type B)

Flexible halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled

Industrial Ethernet FC TP FRNC GP cable TP installation cable for connection to FC outlet RJ45, 4-core, shielded, Cat5, sold by the meter, delivery unit max. 4000 m, minimum order quantity 20 m .

suitability for use cable designation

For occasionally moved machine parts L-9YH (ST) CH 2x2x0,34/1,5-100 GN VZN FRNC SF/UTP

electrical data	
attenuation factor per length	
• at 10 MHz / maximum	0.06 dB/m
<ul><li>at 100 MHz / maximum</li></ul>	0.22 dB/m
impedance	
at 1 MHz 100 MHz	100 Ω
relative symmetrical tolerance	
<ul> <li>of the characteristic impedance at 1 MHz 100 MHz</li> </ul>	15 %
near-end crosstalk per length	
at 1 MHz 100 MHz	0.5 dB/m
transfer impedance per length / at 10 MHz	10 mΩ/m
loop resistance per length / maximum	120 mΩ/m
operating voltage	
RMS value	80 V
NVP value in percent	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

4

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

Yes

0.75 mm

0.75 mm

1.5 mm 3.9 mm

6.5 mm

0.2 mm

PP

FRNC FRNC

white/yellow/blue/orange

green

bending radius 39 mm • with single bend / minimum permissible • with multiple bends / minimum permissible 97.5 mm tensile load / maximum 150 N weight per length 68 kg/km ambient conditions ambient temperature · during operation -25 ... +70 °C during storage -40 ... +75 °C during transport -40 ... +75 °C • during installation 0 ... 50 °C Electrical properties measured at 20 °C, tests according to DIN VDE note fire behavior flame resistant according to IEC 60332-3-22 (Category A/F), IEC 61034chemical resistance • to mineral oil oil resistant according to IEC 60811-2-1 (4 h / 70°C) • to grease Conditional resistance • to water conditional resistance resistant radiological resistance / to UV radiation product features, product functions, product components / general product feature • halogen-free Yes; halogen-free according to IEC 60754-1/2 • silicon-free Yes • low-emission according to IEC 61034-2 Yes wire length / for Industrial Ethernet • with 100BaseTX 100 m standards, specifications, approvals Yes; c(ETL)us, CMG / PLTC / Sun Res / OIL RES UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating 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) 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 5/10/2022 last modified: