

## Data sheet

## 6XV1870-2E

### product type designation

#### product description

### IE FC TP Standard Cable GP 4x2 (AWG 22)

Standard bus cable (8-core), sold by the meter, unassembled

Industrial Ethernet FC TP standard cable 4x 2, TP installation cable CAT6A for connection to FC RJ45 Modular outlet, AWG22, sold by the meter, delivery unit max. 1000 m minimum order quantity 20 m.



#### Technical Product Detail Page

<https://i.siemens.com/1P6XV1870-2E>

#### suitability for use

Standard cable with rigid cores for fast, permanent installation

#### cable designation

2YH (ST) C 4X2X0.64/1.25-100 GN 4x2xAWG22

#### wire length

sold by the meter

### electrical data

#### attenuation factor per length

- at 10 MHz / maximum 0.06 dB/m
- at 100 MHz / maximum 0.19 dB/m
- at 250 MHz / maximum 0.33 dB/m

#### impedance

- at 1 MHz ... 100 MHz 100 Ω

#### relative symmetrical tolerance

- of the characteristic impedance at 1 MHz ... 100 MHz 5 %

#### near-end crosstalk per length

- at 1 MHz ... 250 MHz 0.383 dB/m

#### transfer impedance per length / at 10 MHz

10 mΩ/m

#### loop resistance per length / maximum

118 mΩ/m

#### insulation resistance coefficient

5000 GΩ·m

#### operating voltage

- RMS value 80 V

#### NVP value in percent

63 %

### mechanical data

#### number of electrical cores

8

#### design of the shield

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

#### type of electrical connection / FastConnect

Yes

#### core diameter

- of AWG22 insulated conductor 0.64 mm

#### outer diameter

- of inner conductor 0.64 mm
- of the wire insulation 1.25 mm
- of the inner sheath of the cable 7.6 mm
- of cable sheath 9.6 mm

#### symmetrical tolerance of the outer diameter / of cable sheath

0.3 mm

#### material

- of the wire insulation polyethylene (PE)
- of the inner sheath of the cable PVC

• of cable sheath	PVC
color	white/blue, white/orange, white/green, white/brown green
bending radius	38 mm 80 mm
tensile load / maximum	180 N
weight per length	117 kg/km
<b>ambient conditions</b>	
ambient temperature	-40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -40 ... +80 °C
fire behavior	flame resistant according to IEC 60332-1
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance conditional resistance
radiological resistance / to UV radiation	resistant
<b>product features, product functions, product components / general</b>	
product feature	No Yes Yes Yes
• halogen-free • PoE capability • PoE+ capability • silicon-free	
wire length / for Industrial Ethernet	90 m 90 m
• with 100BaseTX • with 1000BaseT	
test voltage	2000 V 2000 V
• at AC / core-to-core • at AC / core shield	
<b>standards, specifications, approvals</b>	
UL/ETL listing / 300 V Rating	Yes; c(UL)us / CMG / cRUS AWM I A/B 60°C 300V FT2 / Sun Res
UL/ETL style / 600 V Rating	No
certificate of suitability	Yes Yes Yes
• EAC approval • CE marking • RoHS conformity	
standard for structured cabling	Cat6A
• resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
Marine classification association	No No No No No No No No No
• American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statków (PRS)	
<b>further information / internet links</b>	
internet link	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>

- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://www.siemens.com/cax>  
<https://support.industry.siemens.com>

## security information

security information

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## Approvals / Certificates

### General Product Approval

[Manufacturer Declaration](#)



[Declaration of Conformity](#)



[China RoHS](#)

General Product Approval	other	Environment	Industrial Communication
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[Fire safety / Physical security](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

[PROFINET](#)

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