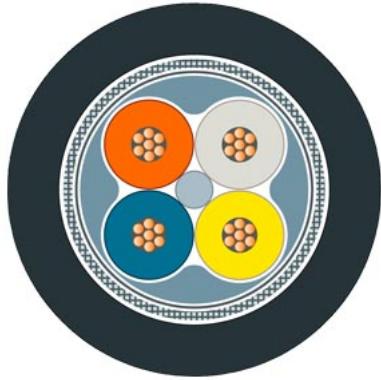


Data sheet

6XV1871-2L

product type designation

product description



IE FC TP Food Cable 2x2 (Type C)

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

Industrial Ethernet FC TP FOOD cable GP 2x2 (PROFINET type C), TP installation cable for use in the food and luxury food industry, 4-core, shielded, CAT5E, sold by the meter; delivery unit max. 1000 m, minimum order quantity: 20 m.

Technical Product Detail Page

<https://i.siemens.com/1P6XV1871-2L>

suitability for use

Food and beverages industry

cable designation

SF/UTP, 2YH (ST) C2Y 2X2X0,75/1,5-100 LI

wire length

sold by the meter

electrical data

attenuation factor per length

0.063 dB/m

• at 10 MHz / maximum

0.213 dB/m

impedance

100 Ω

• at 1 MHz ... 100 MHz

relative symmetrical tolerance

5 %

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

near-end crosstalk per length

0.5 dB/m

• at 1 MHz ... 100 MHz

transfer impedance per length / at 10 MHz

10 mΩ/m

loop resistance per length / maximum

120 mΩ/m

operating voltage

80 V

• RMS value

NVP value in percent

69 %

mechanical data

number of electrical cores

4

design of the shield

SF/UTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires

type of electrical connection / FastConnect

Yes

core diameter

0.75 mm

• of AWG22 insulated conductor

outer diameter

0.75 mm

• of inner conductor

1.5 mm

• of the wire insulation

3.9 mm

• of the inner sheath of the cable

6.5 mm

• of cable sheath

symmetrical tolerance of the outer diameter / of cable sheath

0.2 mm

material

polyethylene (PE)

• of the wire insulation

FRNC

• of the inner sheath of the cable

PE

• of cable sheath

color

• of the insulation of data wires	white/yellow/blue/orange
• of cable sheath	Black
bending radius	
• with single bend / minimum permissible	20 mm
• with multiple bends / minimum permissible	49 mm
tensile load / maximum	150 N
weight per length	55 kg/km
ambient conditions	
ambient temperature	
• during operation	-40 ... +75 °C
• during storage	-50 ... +75 °C
• during transport	-50 ... +75 °C
• during installation	-20 ... +60 °C
fire behavior	inflammable
class of burning behaviour / according to EN 13501-6	Fca
chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to grease	Conditional resistance
• to water	Resistant
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
• halogen-free	Yes
• PoE capability	Yes
• PoE+ capability	Yes
• silicon-free	Yes
wire length / for Industrial Ethernet	
• with 100BaseTX	100 m
test voltage	
• at AC / core-to-core	2000 V
• at AC / core shield	2000 V
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
certificate of suitability	
• EAC approval	Yes
• CE marking	Yes
• RoHS conformity	Yes
standard for structured cabling	Cat5e
• resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
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 Statków (PRS)	No
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	

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Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)



[Declaration of Conformity](#)



[Fire safety / Physical security](#)

General Product Approval	Test Certificates	Environment	Industrial Communication
China RoHS	Special Test Certificate	Environmental Confirmations	PROFINET

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12/20/2025