

Data sheet

6XV1841-2A

product type designation

product description



IE FC TP Robust Standard Cable GP 2x2 (Type A)

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

Industrial Ethernet FastConnect TP robust Standard GP cable 2x2 (PROFINET Type A), TPE protective jacket, fixed installation for connection to FC RJ45 Plug and FC Outlet RJ45, for universal use, 4-core, shielded Cat5e, sold by the meter, delivery unit max. 2000 m minimum order quantity 20 m .

Technical Product Detail Page

<https://i.siemens.com/1P6XV1841-2A>

suitability for use

Standard cable with rigid cores for fast installation

cable designation

SF/UTP, 2YH (ST) C99Y 2x2x0,64/1,5-100 GN

wire length

sold by the meter

electrical data

attenuation factor per length

0.065 dB/m

- at 10 MHz / maximum

0.22 dB/m

impedance

100 Ω

- at 1 MHz ... 100 MHz

relative symmetrical tolerance

15 %

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

115 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

0.64 mm

- of AWG22 insulated conductor

outer diameter

0.64 mm

- of inner conductor

1.5 mm

- of the wire insulation

3.9 mm

- of the inner sheath of the cable

6.5 mm

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

TPE (FR-TPE)

- of cable sheath

color

• of the insulation of data wires	white/yellow/blue/orange
• of cable sheath	green
bending radius	
• with single bend / minimum permissible	26 mm
• with multiple bends / minimum permissible	52 mm
tensile load / maximum	150 N
weight per length	59 kg/km
ambient conditions	
ambient temperature	
• during operation	-40 ... +75 °C
• during storage	-40 ... +75 °C
• during transport	-40 ... +75 °C
• during installation	-20 ... +60 °C
fire behavior	flame resistant according to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
• to mineral oil	oil resistant according to DIN EN 50290-2-22 (VDE 0819), (7x24h/90°C), UL13 Sec.40 (96h/100°C)
• to grease	Conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
• halogen-free	No
• 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	Yes; c(ETL)us, CM, PLTC, SUN RES
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

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](#)

last modified:

12/20/2025