## **SIEMENS**

Data sheet 6XV1871-2S

## product type designation

product description



## IE FC TP Festoon Cable GP 2 x 2 (Type B)

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

Industrial Ethernet FC TP Festoon cable 2x2 (PROFINET Type B), TP installation cable for Festoon suspension, 4-core CAT5E, sold by the meter, min. 5 million bending cycles, delivery length max. 1000 m, BELOW minimum order 20 m

suitability for use	For continuous motion in a trailing cable, festoon mounting
cable designation	2YY (ST) CY 2x2x0,75/1,5 LI GN SF/UTP
electrical data	
attenuation factor per length	
<ul><li>at 10 MHz / maximum</li></ul>	0.063 dB/m
at 100 MHz / maximum	0.213 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 100 MHz	0.5 dB/m
transfer impedance per length / at 10 MHz	100 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	4
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	0.75 mm
outer diameter	
<ul> <li>of inner conductor</li> </ul>	0.75 mm
<ul> <li>of the wire insulation</li> </ul>	1.5 mm
<ul> <li>of the inner sheath of the cable</li> </ul>	3.9 mm
of cable sheath	6.5 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
material	
<ul> <li>of the wire insulation</li> </ul>	polyethylene (PE)
<ul> <li>of the inner sheath of the cable</li> </ul>	PVC
of cable sheath	PVC

color	
of the insulation of data wires	white/yellow/blue/orange
of cable sheath	green
bending radius	
<ul><li>with single bend / minimum permissible</li></ul>	30 mm
with multiple bends / minimum permissible	70 mm
with continuous bending	70 mm
number of bending cycles	5000000; 5 million bending cycles at a bending radius of 70 mm and an acceleration of 4 m/s <sup>2</sup>
tensile load / maximum	150 N
weight per length	68 kg/km
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-40 +75 °C
<ul> <li>during storage</li> </ul>	-50 +75 °C
during transport	-50 +75 °C
<ul> <li>during installation</li> </ul>	-20 +60 °C
• note	Electrical properties measured at 20 °C, tests according to DIN VDE 0472
fire behavior	flame resistant according to UL 1685 (CSA FT 4)
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
• to mineral oil	conditional resistance
• to grease	Conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components	s / general
product feature	
halogen-free	No
• silicon-free	Yes
wire length / for Industrial Ethernet	
• with 100BaseTX	85 m
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(UL)us, CMG / PLTC / Sun Res / OIL RES
UL/ETL style / 600 V Rating	Yes
certificate of suitability	
EAC approval	Yes
CE marking	Yes
RoHS conformity	Yes
standard for structured cabling	Cat5e
Marine classification association	Culto
American Bureau of Shipping Europe Ltd. (ABS)	No
<ul> <li>French marine classification society (BV)</li> </ul>	No
Prench manne classification society (BV)     Det Norske Veritas (DNV)	No
Germanische Lloyd (GL)	No
	No
Lloyds Register of Shipping (LRS)     Nippon Kajii Kyokai (NK)	
Nippon Kaiji Kyokai (NK)     Polski Pojectr Statkow (RRS)	No No
Polski Rejestr Statkow (PRS)      The state of the s	No
further information / internet-Links	
Internet-Link	http://www.siamaga.aam/a
to web page: selection aid TIA Selection Tool	http://www.siemens.com/snst
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: Image database	http://automation.siemens.com/bilddb
<ul><li>to website: CAx-Download-Manager</li></ul>	http://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com
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