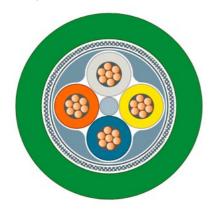
## **SIEMENS**

Data sheet 6XV1871-2S

product description



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 unit max. 1000 m, minimum order quantity 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	
<ul> <li>of the insulation of data wires</li> </ul>	white/yellow/blue/orange
<ul> <li>of cable sheath</li> </ul>	green

banding radius	
bending radius	20
with single bend / minimum permissible	30 mm
with multiple bends / minimum permissible	70 mm
with continuous bending  Turnbox of bonding avalage	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
during storage	-50 +75 °C
<ul> <li>during transport</li> </ul>	-50 +75 °C
during installation	-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	/ general
product feature	
<ul><li>halogen-free</li></ul>	No
• silicon-free	Yes
wire length / for Industrial Ethernet	
<ul><li>with 100BaseTX</li></ul>	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	
<ul> <li>EAC approval</li> </ul>	Yes
CE marking	Yes
RoHS conformity	Yes
standard for structured cabling	Cat5e
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul> <li>French marine classification society (BV)</li> </ul>	No
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No
Germanische Lloyd (GL)	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
Polski Rejestr Statkow (PRS)	No
reference code	
<ul><li>according to IEC 81346-2</li></ul>	WG
• according to IEC 81346-2:2019	WGB
further information / internet-Links	
Internet-Link	
<ul><li>to web page: selection aid TIA Selection Tool</li></ul>	http://www.siemens.com/tia-selection-tool
<ul> <li>to website: Industrial communication</li> </ul>	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
<ul><li>to website: CAx-Download-Manager</li></ul>	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
last modified:	10/30/2021 🖸