SIEMENS

Data sheet

6XV1870-2B

product description	Flexible bus cable (4-core), sold by the meter, unassembled		
	Idustrial Ethernet FC TP flexible cable, GP 2x2 (PROFINET Type B), TP istallation cable with flexible cores, PROFINET type B, 4-core, shielded, CAT 5e, old by the meter, delivery unit max. 2500 m minimum order quantity 20 m.		
suitability for use cable designation	For occasionally moved machine parts 2YY (ST) CY 2x2x0,75/1,5-100 LI GN SF/UTP		
electrical data			
attenuation factor per length			
• at 10 MHz / maximum	0.06 dB/m		
• at 100 MHz / maximum	0.21 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	20 mΩ/m		
loop resistance per length / maximum	120 mΩ/m		
operating voltage			
RMS value	80 V		
NVP value in percent	69 %		
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			
of inner conductor	0.75 mm		
 of the wire insulation 	1.5 mm		
 of the inner sheath of the cable 	3.9 mm		
of cable sheath	6.5 mm		
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm		
material			
 of the wire insulation 	polyethylene (PE)		
 of the inner sheath of the cable 	PVC		
of cable sheath	PVC		
color			
 of the insulation of data wires 	white/yellow/blue/orange		
of cable sheath	green		
bending radius			
• with single bend / minimum permissible	32.5 mm		

 with multiple bends / minimum permissible 	52 mm		
tensile load / maximum	150 N		
weight per length	68 kg/km		
ambient conditions			
ambient temperature			
during operation	-25 +75 °C		
during storage	-25 +75 °C		
during transport	-25 +75 °C		
during installation	-10 +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	oil resistant according to IEC 60811-404 (7x24h/90°C)		
• to grease	Conditional resistance		
• to water	conditional resistance		
radiological resistance / to UV radiation	resistant		
product features, product functions, product components / gene	eral		
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(ETL)us, CMG / (ETL)us PLTC / Sun Res / OIL RES		
UL/ETL style / 600 V Rating	Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2		
certificate of suitability			
EAC approval	Yes		
• CE marking	Yes		
RoHS conformity	Yes		
standard for structured cabling	Cat5e		
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 Statkow (PRS) 	No		
reference code			
according to IEC 81346-2	WG		
• according to IEC 81346-2:2019	WGB		
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	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions		

undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates General Product App				Environment
Manufacturer Declara- tion	C E EG-Konf.	UK CA	Declaration of Con- formity	Confirmation
Environment	Industrial Communicat	ion		
EPD	PROFINET			
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