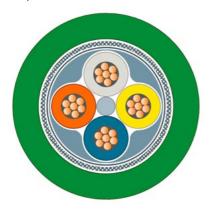
SIEMENS

Data sheet 6XV1870-2B

product description

suitability for use



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

For occasionally moved machine parts

Industrial Ethernet FC TP flexible cable, GP 2x2 (PROFINET Type B), TP installation cable with flexible cores, PROFINET type B, 4-core, shielded, CAT 5e, sold by the meter, delivery unit max. 2500 m minimum order quantity 20 m.

suitability for use	For occasionally moved machine parts		
cable designation	2YY (ST) CY 2x2x0,75/1,5-100 LI GN SF/UTP		
wire length	sold by the meter		
lectrical 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 %		
nechanical 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			
color • of the insulation of data wires	white/yellow/blue/orange		

with single hend / minimum nermissible	32.5 mm		
with single bend / minimum permissiblewith multiple bends / minimum permissible	52.5 mm		
tensile load / maximum			
weight per length	150 N 68 kg/km		
ambient conditions	O Nymii		
ambient temperature			
during operation	-25 +75 °C		
during operation during storage	-25 +75 °C		
during storage during transport	-25 +75 °C		
during transport during installation			
• note	-10 +60 °C		
fire behavior	Electrical properties measured at 20 °C, tests according to DIN VDE 0472		
	flame resistant according to UL 1685 (CSA FT 4)		
class of burning behaviour / according to EN 13501-6	Eca		
chemical resistance	oil registant according to IEC 60011 404 (7x24b/00°C)		
• to mineral oil	oil resistant according to IEC 60811-404 (7x24h/90°C)		
• to grease	Conditional resistance conditional resistance		
to water radiological resistance / to UV radiation	resistant		
product features, product functions, product components / gene			
	oral —		
product feature	No		
halogen-freesilicon-free	Yes		
	res		
wire length / for Industrial Ethernet with 100BaseTX	85 m		
	85 (1)		
standards, specifications, approvals	Vac: c/ETI luc CMG / /ETI luc DI TC / Sun Dac / OII DE C		
UL/ETL style / 600 V Pating	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	Voc		
EAC approval CE marking	Yes Yes		
CE marking PoUS conformity	Yes		
RoHS conformity standard for structured cabling	Cat5e		
Marine classification association	Calot		
	No		
American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (RV)			
French marine classification society (BV)Det Norske Veritas (DNV)	No No		
Germanische Lloyd (GL) Lloyds Pegister of Shipping (LPS)	No No		
Lloyds Register of Shipping (LRS) Nippon Kajii Kyokai (NK)			
Nippon Kaiji Kyokai (NK) Polski Peiestr Statkow (PPS)	No No		
Polski Rejestr Statkow (PRS) reference code	No		
	WG		
according to IEC 81346-2 according to IEC 81346-2:2010	WG WCB		
according to IEC 81346-2:2019 standards, appointance, approvals, / Environmental Product D.	WGB		
standards, specifications, approvals / Environmental Product De			
Environmental Product Declaration	Yes		
global warming potential [CO2 eq]	0.02 kg		
• total	0.92 kg		
during manufacturing	0.83 kg		
during operation	0.02 kg		
after end of life further information / informations	0.07 kg		
further information / internet links			
internet link	https://gupport.industry.giomogra-service.html. 1400700070		
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.		
	that support the secure operation of plants, systems, machines and networks.		

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Approva	10-4	Ei i	
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General Product Approval

Environment

Manufacturer Declaration





Declaration of Conformity



Confirmation

Industrial Communication

PROFINET

last modified:

2/20/2025

