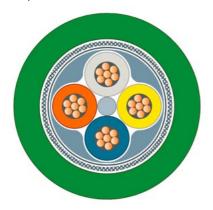
SIEMENS

Data sheet 6XV1870-2BU10

product description

suitability for use



Flexible bus cable (4-core), preferred length, unassembled

For occasionally moved machine parts

Industrial Ethernet FC TP Flexible cable GP 2x2; (PROFINET type B); TP installation cable with flexible cores, 4-core; shielded; CAT5 for connection to IE FC RJ45 Plug 2x 2, AWG22; 1000 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	1000 m
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	15 %
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	66 %
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 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 / ge	
product feature	
halogen-free	No
• silicon-free	Yes
wire length / for Industrial Ethernet	160
with 100BaseTX	85 m
standards, specifications, approvals	65 III
	Vac: o/ETI \ua_CMC / /ETI \ua_DI TC / Sun Dec / OII DES
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
	Yes
CE marking Pol-IS conformity	
RoHS conformity Advandand for attractured publics.	Yes
standard for structured cabling	Cat5e
Marine classification association	Al-
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV) Canala	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 web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 to website: Industrial communication 	http://www.siemens.com/simatic-net
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to website: Information and Download Center to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
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• to website: Selection guide for cables and connectors	

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