SIEMENS

Data sheet

6XV1870-2BU10

product description	Flexible bus cable (4-core), preferred length, unassembled	
	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	
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	15 %	
MHz		
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 %	
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	/ 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(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 web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 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: Selection guide for cables and connectors 	https://sie.ag/2QdlxcP
 to website: Image database 	http://automation.siemens.com/bilddb
 to website: CAx-Download-Manager 	http://www.siemens.com/cax
 to website: Industry Online Support 	https://support.industry.siemens.com
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