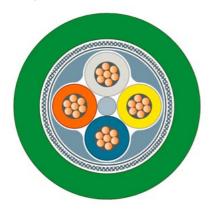
SIEMENS

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 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 %
mechanical data	
number of electrical cores	4
Hulliper Of Electrical Coles	7
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires
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design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires
design of the shield type of electrical connection / FastConnect	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires
design of the shield type of electrical connection / FastConnect core diameter	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires Yes
type of electrical connection / FastConnect core diameter • of AWG22 insulated conductor	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires Yes
design of the shield type of electrical connection / FastConnect core diameter • of AWG22 insulated conductor outer diameter	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires Yes 0.75 mm
design of the shield type of electrical connection / FastConnect core diameter of AWG22 insulated conductor outer diameter of inner conductor	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires Yes 0.75 mm
design of the shield type of electrical connection / FastConnect core diameter of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires Yes 0.75 mm 1.5 mm
design of the shield type of electrical connection / FastConnect core diameter • of AWG22 insulated conductor outer diameter • of inner conductor • of the wire insulation • of the inner sheath of the cable	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires Yes 0.75 mm 1.5 mm 3.9 mm
design of the shield type of electrical connection / FastConnect core diameter of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation of the inner sheath of the cable of cable sheath symmetrical tolerance of the outer diameter / of cable	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires Yes 0.75 mm 0.75 mm 1.5 mm 3.9 mm 6.5 mm
design of the shield type of electrical connection / FastConnect core diameter of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation of the inner sheath of the cable of cable sheath symmetrical tolerance of the outer diameter / of cable sheath	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires Yes 0.75 mm 0.75 mm 1.5 mm 3.9 mm 6.5 mm
design of the shield type of electrical connection / FastConnect core diameter of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation of the inner sheath of the cable of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires Yes 0.75 mm 0.75 mm 1.5 mm 3.9 mm 6.5 mm 0.2 mm
design of the shield type of electrical connection / FastConnect core diameter of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation of the inner sheath of the cable of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires Yes 0.75 mm 1.5 mm 3.9 mm 6.5 mm 0.2 mm
design of the shield type of electrical connection / FastConnect core diameter of AWG22 insulated conductor outer diameter of inner conductor of the wire insulation of the inner sheath of the cable of cable sheath symmetrical tolerance of the outer diameter / of cable sheath material of the wire insulation of the inner sheath of the cable	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires Yes 0.75 mm 0.75 mm 1.5 mm 3.9 mm 6.5 mm 0.2 mm

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 italiaport 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	s / 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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