SIEMENS

Data sheet 6XV1870-2D

product description

suitability for use



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

Continuous motion control in a cable carrier

Industrial Ethernet FC TP Trailing cable GP 2x2 (PROFINET Type C), TP installation cable for Festooning, 4-core, CAT. 5, Sold by the meter (3 million bending cycles), delivery unit max. 1000 m, Minimum order 20 m

cable designation	2YY (ST) CY 2x2x0,75/1,5-100 LI GN SF/UTP
electrical data	
attenuation factor per length	
at 10 MHz / maximum	0.063 dB/m
• at 100 MHz / maximum	0.213 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	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	49 mm
with continuous bending	100 mm
number of bending cycles	3000000; Drag chain suitable for 3 million bending cycles at a bending radius of 100 mm, a speed of 4 m/s and an acceleration of 4 m/s ²
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 FT4 / (ETL)us PLTC / Sun Res / OIL RES
UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating	Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2
UL/ETL style / 600 V Rating	
UL/ETL style / 600 V Rating certificate of suitability	
UL/ETL style / 600 V Rating certificate of suitability • EAC approval	Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2
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