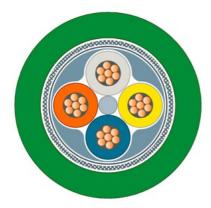
SIEMENS

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 cable carrier applications, 4-core, shielded Cat5e, sold by the meter (3 million bending cycles), delivery unit max. 1000 m, minimum order quantity 20 m.

suitability for use	Continuous motion control in a cable carrier
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	0.063 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	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 hand / minimum normissible	32.5 mm
 with single bend / minimum permissible with multiple bends / minimum permissible 	49 mm
·	100 mm
with continuous bending 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	OU NOTATI
ambient temperature	-25 +75 °C
during operation during storage	-25 +75 °C
during storage	-25 +75 °C
during transport during installation	-10 +60 °C
during installation	
• note 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	ail registant according to IEC 60911 404 (7v24b/00°C)
• to grease	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 / gene	eral ————————————————————————————————————
product feature	Ne
• halogen-free	No Voc
• silicon-free	Yes
wire length / for Industrial Ethernet	05
• 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 style / 600 V Rating	Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2
certificate of suitability	V.
EAC approval	Yes
• CE marking	Yes
RoHS conformity	Yes
standard for structured cabling	Cat5e
Marine classification association	A.I.
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV) CANNO	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	WO
according to IEC 81346-2 according to IEC 94346-2:2040	WG
according to IEC 81346-2:2019	WGB
further information / internet links	
internet link	
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. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected

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Approvals / Certificates

General Product Approval

Environment

Manufacturer Declara-<u>tion</u>



Declaration of Conformity



Confirmation

Environment

Industrial Communication

Environmental Confirmations

PROFINET

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