SIEMENS

Data sheet 6XV1878-2C

product type designation

product description



IE FC TP Trailing Cable GP 4X2 (AWG 24, Type C)

Shielded TP installation cable (8-core), sold by the meter, unassembled

IE FC TP Trailing Cable GP 4x2 TP installation cable CAT6A AWG 24, for connection to IE FC RJ45 plug 4x 2, AWG24, sold by the meter, delivery unit max. 1000 m minimum order quantity 20 m.

suitability for use	Flexible cable for fast installation, for installation in trailing cables
cable designation	SF/UTP, 2YH(ST)C11Y 4X2X0.6/1.04-100 LI GN
wire length	sold by the meter
electrical data	
attenuation factor per length	
• at 10 MHz / maximum	0.089 dB/m
• at 100 MHz / maximum	0.287 dB/m
• at 250 MHz / maximum	0.466 dB/m
• at 300 MHz / maximum	0.514 dB/m
at 500 MHz / maximum	0.679 dB/m
impedance	
• at 1 MHz 100 MHz	100 Ω
near-end crosstalk per length	
• at 1 MHz 100 MHz	0.453 dB/m
• at 1 MHz 250 MHz	0.393 dB/m
• at 1 MHz 300 MHz	0.381 dB/m
• at 1 MHz 500 MHz	0.348 dB/m
coupling loss / at 30 MHz 100 MHz / minimum	80 dB
transfer impedance per length / at 10 MHz	80 mΩ/m
loop resistance per length / maximum	180 mΩ/m
insulation resistance coefficient	5000 GΩ·m
operating voltage	
RMS value	80 V
• maximum	80 V
NVP value in percent	69 %
mechanical data	
number of electrical cores	8
design of the shield	SF/UTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires
type of electrical connection / FastConnect	Yes
core diameter	
 of AWG24 insulated conductor 	0.51 mm
outer diameter	
 of inner conductor 	0.58 mm
• of the wire insulation	1.04 mm
• of the inner sheath of the cable	6.5 mm
of cable sheath	8 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 	FRNC
of cable sheath	PUR
color	
 of the insulation of data wires 	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
of cable sheath	green
bending radius	
with single bend / minimum permissible	32 mm
 with multiple bends / minimum permissible 	64 mm
with continuous bending	120 mm
number of bending cycles	1000000; For use in trailing cables, with a bending radius of 120 mm, a speed
	of 4 m/s, and an acceleration of 4 m/s ²
tensile load / maximum	100 N
weight per length	102 kg/km
ambient conditions	
ambient temperature	
 during operation 	-30 +70 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
 during installation 	-30 +70 °C
• note	In fixed installation -40 °C to 80 °C
fire behavior	flame resistant according to IEC 60332-1-2
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 /	
product feature	
halogen-free	Yes
PoE capability	Yes
PoE+ capability	Yes
PoE++ capability	Yes
• silicon-free	Yes
	165
wire length / for Industrial Ethernet	400
• with 100BaseTX	100 m
• with 1000BaseT	100 m
• for 10GBase T	80 m
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(ETL)us CMX, AWM-Style 21329
UL/ETL style / 600 V Rating	Yes
certificate of suitability	
EAC approval	Yes
CE marking	Yes
RoHS conformity	Yes
product conformity	
• ANSI/TIA-EIA 568-B.2 Cat.5e	No
• IEC 61784-5-2-CP 2/2 (Ethernet/IP)	Yes
standard for structured cabling	Cat6A
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
Polski Rejestr Statkow (PRS) reference code	No
Polski Rejestr Statkow (PRS) reference code according to IEC 81346-2	WG

• according to IEC 81346-2:2019

WGB

further information / internet links

internet link

• to website: Selection guide for cables and connectors

• to web page: selection aid TIA Selection Tool

• to web page: SiePortal • to website: Image database

• to website: CAx-Download-Manager

• to website: Industry Online Support

https://support.industry.siemens.com/cs/ww/en/view/109766358

https://www.siemens.com/tstcloud

https://sieportal.siemens.com/

https://www.automation.siemens.com/bilddb

https://www.siemens.com/cax

https://support.industry.siemens.com

security information

security information

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Approvals / Certificates

General Product Approval







Manufacturer Declaration

China RoHS

Fire safety / Physical security

General Product Approval

Environment

Industrial Communication

Declaration of Conformity

Environmental Confirmations

PROFINET

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