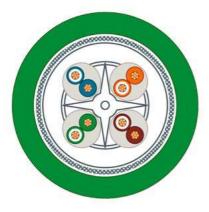
## **SIEMENS**

Data sheet 6XV1878-2C

## product type designation

product description

suitability for use



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

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

Flexible cable for fast installation, for installation in trailing cables

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	Tiexible cable for fast installation, for installation in trailing cables
cable designation	2YH(ST)C11Y 4X2X0.6/1.04-100 LI GN
electrical data	
attenuation factor per length	
<ul><li>at 10 MHz / maximum</li></ul>	0.089 dB/m
<ul><li>at 100 MHz / maximum</li></ul>	0.287 dB/m
• at 250 MHz / maximum	0.466 dB/m
<ul><li>at 300 MHz / maximum</li></ul>	0.514 dB/m
<ul><li>at 500 MHz / maximum</li></ul>	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
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	
<ul> <li>RMS value</li> </ul>	80 V
maximum	80 V
NVP value in percent	67 %
nechanical data	
number of electrical cores	8
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 AWG24 insulated conductor	0.51 mm
outer diameter	
of inner conductor	0.58 mm
<ul> <li>of the wire insulation</li> </ul>	1.04 mm
<ul> <li>of the inner sheath of the cable</li> </ul>	6.5 mm
of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
material	

- of the using insulation	nelvothy Jane (DE)
• 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
<ul><li>of cable sheath</li></ul>	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 <sup>2</sup>
tensile load / maximum	100 N
weight per length	102 kg/km
ambient conditions	
ambient temperature	
during operation	-30 +70 °C
during operation     during storage	-40 +80 °C
during storage     during transport	-40 +80 °C
during transport     during installation	-30 +70 °C
-	In fixed installation -40 °C to 80 °C
• note	
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 component	s / general
product feature	
<ul><li>halogen-free</li></ul>	Yes
• silicon-free	Yes
wire length / for Industrial Ethernet	
<ul><li>with 100BaseTX</li></ul>	50 m
<ul><li>with 1000BaseT</li></ul>	50 m
• for 10GBase T	50 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	160
,	No
• ANSI/TIA-EIA 568-B.2 Cat.5e	No
IEC 61784-5-2-CP 2/2 (Ethernet/IP)  atomical for attrictional parking.	Yes
standard for structured cabling	Cat6A
Marine classification association	N.
American Bureau of Shipping Europe Ltd. (ABS)	No
• French marine classification society (BV)	No 
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No
Germanische Lloyd (GL)	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
Polski Rejestr Statkow (PRS)	No
reference code	
<ul> <li>according to IEC 81346-2</li> </ul>	WG
<ul> <li>according to IEC 81346-2:2019</li> </ul>	WGB
further information / internet-Links	

## Internet-Link

• to web page: selection aid TIA Selection Tool

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Selection guide for cables and

connectors

• to website: Image database

to website: CAx-Download-Managerto website: Industry Online Support

last modified:

http://www.siemens.com/tia-selection-tool

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

https://sie.ag/2QdlxcP

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

10/30/2021