## SIEMENS

## Data sheet

## 6XV1878-2G

product type designation product description

IE TP Ground Cable 4x2 (AWG 24, Type C)

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

IE TP ground cable 4x2 underground cable, CAT6A, 8-core, shielded, cable for Connection to IE FC RJ45 plug 4x2, AWG24, Sold by the meter delivery unit max. 1000 m minimum order quantity 20 m.

suitability for use	Standard cable with rigid cores for fast, permanent installation outdoors and in the ground
cable designation	2YH(ST)CY2Y 4X2X0.5/1.0 BK
electrical data	
attenuation factor per length	
• at 10 MHz / maximum	0.058 dB/m
• at 100 MHz / maximum	0.191 dB/m
• at 250 MHz / maximum	0.311 dB/m
• at 300 MHz / maximum	0.343 dB/m
• at 500 MHz / maximum	0.453 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	20 mΩ/m
loop resistance per length / maximum	190 mΩ/m
insulation resistance coefficient	5000 GΩ·m
operating voltage	
RMS value	80 V
NVP value in percent	66 %
mechanical 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	
<ul> <li>of AWG24 insulated conductor</li> </ul>	0.51 mm
outer diameter	
of inner conductor	0.51 mm
<ul> <li>of the wire insulation</li> </ul>	1 mm
<ul> <li>of the inner sheath of the cable</li> </ul>	6.1 mm
of cable sheath	10.5 mm
of cable sheath / note	IE FC standard cable GP 4x2 (diameter 8 mm) with additional PE outer cover (diameter 10.5 mm)
symmetrical tolerance of the outer diameter / of cable sheath	0.5 mm

material	
<ul> <li>of the wire insulation</li> </ul>	polyethylene (PE)
<ul> <li>of the inner sheath of the cable</li> </ul>	FRNC
<ul> <li>of cable sheath</li> </ul>	PVC
color	
<ul> <li>of the insulation of data wires</li> </ul>	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
<ul> <li>of cable sheath</li> </ul>	green/black
bending radius	
with single bend / minimum permissible	42 mm
	84 mm
with multiple bends / minimum permissible	
tensile load / maximum	100 N
weight per length	107 kg/km
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-40 +80 °C
<ul> <li>during storage</li> </ul>	-40 +80 °C
<ul> <li>during transport</li> </ul>	-40 +80 °C
<ul> <li>during installation</li> </ul>	-40 +80 °C
• note	In fixed installation -40 °C to 85 °C
class of burning behaviour / according to EN 13501-6	Fca
chemical resistance	
• to water	Resistant
radiological resistance / to UV radiation	resistant
product features, product functions, product components / gen	eral
product feature	
<ul> <li>halogen-free</li> </ul>	No
silicon-free	Yes
wire length / for Industrial Ethernet	
<ul> <li>with 100BaseTX</li> </ul>	90 m
<ul> <li>with 1000BaseT</li> </ul>	90 m
• for 10GBase T	70 m
	70 m
<ul> <li>for 10GBase T</li> <li>standards, specifications, approvals</li> </ul>	70 m No
• for 10GBase T standards, specifications, approvals UL/ETL listing / 300 V Rating	
• for 10GBase T standards, specifications, approvals UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating	Νο
for 10GBase T     standards, specifications, approvals     UL/ETL listing / 300 V Rating     UL/ETL style / 600 V Rating     certificate of suitability	No No
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- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

last modified:

http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

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