SIEMENS

Data sheet

6XV1876-2B

product type designation product description



IE FC TP flexible cable GP 4x2, CAT7, sold by the meter

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

IE FC TP Flexible Cable GP 4x2 FastConnect Flexible Cable GP 4x 2, TP installation CAT7 cable for connection to IE FC RJ45 plug 4x 2 and IE FC M12 plug PRO 4x2, AWG26, sold by the meter, package item max. 2000 m minimum order quantity 20 m

Flexible cable for quick assembly, for occasionally moving machine parts

suitability for use

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electrical data	
attenuation factor per length	
• at 10 MHz / maximum	0.088 dB/m
• at 100 MHz / maximum	0.285 dB/m
• at 300 MHz / maximum	0.513 dB/m
• at 600 MHz / maximum	751 dB/m
impedance	
• at 1 MHz 100 MHz	100 Ω
near-end crosstalk per length	
• at 10 MHz	0.78 dB/m
• at 100 MHz	0.724 dB/m
• at 300 MHz	0.653 dB/m
• at 600 MHz	0.608 dB/m
loop resistance per length / maximum	290 mΩ/m
operating voltage	
RMS value	100 V
• maximum	100 V
NVP value in percent	68 %
nechanical data	
number of electrical cores	8
design of the shield	overlapped aluminum-laminated foil, sheathed in a protective braided shield of tinned copper wires, central shielding wire of the line must be connected to the shield contact during plug assembly (see assembly video)
type of electrical connection / FastConnect	Yes
core diameter	
 of AWG26 insulated conductor 	0.47 mm
outer diameter	
of inner conductor	0.47 mm
 of the wire insulation 	1.15 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 cable sheath	PVC
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 	40 mm
 with multiple bends / minimum permissible 	80 mm
tensile load / maximum	100 N
weight per length	65 kg/km
ambient conditions	
ambient temperature	
during operation	-30 +70 °C
 during storage 	-40 +70 °C
during transport	-40 +70 °C
during installation	-30 +70 °C
ambient condition / for operation	temperature range for permanent installation -40 °C to +70 °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 EN 50290-2-22 (VDE 0819), compound type TM55
	(7x24h/90 °C)
• to grease	Conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / ge	eneral
product feature	
halogen-free	No
• silicon-free	Yes
wire length / for Industrial Ethernet	
• with 100BaseTX	90 m
• with 1000BaseT	90 m
• for 10GBase T	75 m
standards, specifications, approvals	75 11
	Voo
UL/ETL listing / 300 V Rating	Yes
UL/ETL style / 600 V Rating	165
certificate of suitability	Vac
 EAC approval 	Yes
	N .
• CE marking	Yes
CE marking RoHS conformity	Yes
CE marking RoHS conformity standard for structured cabling	
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