SIEMENS

Data sheet 6XV1878-5BN10

product type designation

product description

IE Connecting Cable IE FC RJ45-180 / IE FC RJ45-180

Flexible plug-in cable (8-wire), preferred length, prefabricated with two IE FC RJ45 connectors 4X2

IE connecting cable IE FC RJ45 Plug-180/IE FC RJ45 Plug-180; IE FC flexible GP 4x2 cable Pre-assembled with 2x IE FC RJ45 plug 180 4 x 2; Length 10.0 m $\,$



suitability for use	For connecting Industrial Ethernet stations with an RJ45 interface (10/100/1000/10000Mbps)
wire length	10 m
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
transfer impedance per length / at 10 MHz	20 mΩ/m
loop resistance per length / maximum	180 mΩ/m
insulation resistance coefficient	5000 GΩ·m
operating voltage	
RMS value	80 V
NVP value in percent	68 %
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	
of AWG24 insulated conductor	0.51 mm
outer diameter	
 of inner conductor 	0.6 mm
 of the wire insulation 	1.05 mm
 of the inner sheath of the cable 	6.4 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	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	24 mm
with multiple bends / minimum permissible	40 mm
tensile load / maximum	100 N
weight per length	86 kg/km
ambient conditions	
ambient temperature	
during operation	-40 +80 °C
· .	-40 +80 °C
during storage during transport	-40 +80 °C
during transport during installation	-40 +80 °C
during installation	
fire behavior chemical resistance	flame resistant according to IEC 60332-3-24 (Category C)
	ail registant according to IEC (0044-2-4-(4-b-(-70°C)
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to grease	Conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product component	ts / general
product feature	
• halogen-free	No
• silicon-free	Yes
wire length / for Industrial Ethernet	
• with 100BaseTX	80 m
• with 1000BaseT	80 m
● for 10GBase T	70 m
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes
UL/ETL style / 600 V Rating	No
certificate of suitability	
 EAC approval 	Yes
CE marking	Yes
RoHS conformity	Yes
product conformity	
ANSI/TIA-EIA 568-B.2 Cat.5e	
	Yes
• IEC 61784-5-2-CP 2/2 (Ethernet/IP)	
Marine classification association	Yes Yes
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS)	Yes
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• to website: Information and Download Center

• to website: Image database

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

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http://www.siemens.com/cax

https://support.industry.siemens.com

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