SIEMENS

Data sheet 6XV1875-5AH50

Product type designation
Product description

SIMATIC NET Antenna Connection Cable N-Connect Male/ Male
Connecting cable for SIMATIC NET antennas, preassembled N-Connect male/male flexible connection cable pre-assembled; length 5 m flexible cable, for example, for the connection to antennas, suitable for IWLAN and mobile radio



Suitability for use	Flexible connecting cable for connecting an antenna or RCoax cable to a SCALANCE M/W
Wire length	5 m

Electrical data	
Number of electrical connections	2
Type of electrical connection	N-Connect/N-Connect male/male
Transmission frequency	0 ... 6000 MHz
Damping ratio per length	
• at 2.4 GHz / typical	0.53 dB/m
• at 5.2 GHz / typical	0.83 dB/m
• at 5.85 GHz / typical	0.89 dB/m
Return loss	
• minimum	23 dB
Impedance	
• Rated value	50 Ω
Capacity per length / at 1 kHz	82 pF/m
Relative speed	82 %

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Mechanical data	
Design of the shield	Braided shield made of tin-plated copper wires
Outer diameter	
• of inner conductor	1.4 mm
• of dielectric	3.8 mm
• of cable sheath	6.3 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
Thickness / of cable sheath	0.76 mm
Material	
• of inner conductor	Cu
• of dielectric	polyethylene foam
• of cable sheath	FRNC
Color	
• of cable sheath	pastel turquoise
Bending radius	
• with single bend / minimum permissible	32 mm
• with multiple bends / minimum permissible	45 mm
Tensile load / maximum	80 N
Weight per length	75 kg/km

Permitted ambient conditions	
Ambient temperature	
• during operation	-40 ... +80 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-25 ... +80 °C
Chemical resistance	
• to mineral oil	conditional resistance
Radiological resistance / to UV radiation	resistant
Protection class IP	IP68; when plugged in

Product properties, functions, components / general	
Product feature	
• halogen-free	Yes
• silicon-free	Yes

Standards, specifications, approvals	
Certificate of suitability	
• RoHS conformity	Yes
• Fire protection in accordance with EN 45545-2	No
Standard	
• for burning behavior / flame resistance	UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)

Further Information / Internet Links

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Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
last modified:	07/31/2018

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