

**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 10 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	10 m
<b>Electrical data</b>	
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 $\Omega$
Capacity per length / at 1 kHz	82 pF/m
Relative speed	82 %

Mechanical data	
Design of the shield	Braided shield made of tin-plated copper wires
Outer diameter	
<ul style="list-style-type: none"> <li>• of inner conductor</li> <li>• of dielectric</li> <li>• of cable sheath</li> </ul>	1.4 mm 3.8 mm 6.3 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
Thickness / of cable sheath	0.76 mm
Material	
<ul style="list-style-type: none"> <li>• of inner conductor</li> <li>• of dielectric</li> <li>• of cable sheath</li> </ul>	Cu polyethylene foam FRNC
Color	
<ul style="list-style-type: none"> <li>• of cable sheath</li> </ul>	pastel turquoise
Bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>	32 mm 45 mm
Tensile load / maximum	80 N
Weight per length	75 kg/km

Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> </ul>	-40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -25 ... +80 °C
Chemical resistance	
<ul style="list-style-type: none"> <li>• to mineral oil</li> </ul>	conditional resistance
Radiological resistance / to UV radiation	resistant
Protection class IP	IP68; when plugged in

Product properties, functions, components / general	
Product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>	Yes Yes

Standards, specifications, approvals	
Certificate of suitability	
<ul style="list-style-type: none"> <li>• RoHS conformity</li> <li>• Fire protection in accordance with EN 45545-2</li> </ul>	Yes No
Standard	
<ul style="list-style-type: none"> <li>• for burning behavior / flame resistance</li> </ul>	UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)

#### Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

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

<https://mall.industry.siemens.com>

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

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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