

### product type designation

product description

**SIMATIC NET Antenna Connection Cable N-Connect/SMA Male/Male**

Connecting cable for SIMATIC NET antennas, preassembled

N-Connect/SMA male/ male flexible connection cable pre-assembled, Length 5 m, flexible connecting cable SCALANCE W antenna



suitability for use	Flexible connecting cable for connecting an antenna to SCALANCE M
wire length	5 m
<b>electrical data</b>	
number of electrical connections	2
type of electrical connection	N-Connect/SMA male/male
transmission frequency	0 ... 6000 MHz
attenuation factor 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	85 pF/m
relative speed	82 %
<b>mechanical data</b>	
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	3.76 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

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	when plugged in
product features, product functions, product 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>EAC approval</li> <li>RoHS conformity</li> <li>fire protection in accordance with EN 45545-2</li> </ul>	Yes Yes No
standard	
<ul style="list-style-type: none"> <li>for fire behavior / flame resistance</li> </ul>	UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
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