

**Product type designation**  
Product description

**SIMATIC NET Antenna Connection Cable RSMA/SMA Male/ Male**  
Connecting cable for SIMATIC NET antennas, preassembled SIMATIC NET, IWLAN R-SMA/ SMA MALE/MALE FLEXIBLE CONNECTION CABLE PREASSEMBLED, LENGTH 2M FLEXIBLE CONNECTION CABLE FOR COMPONENTS WITH R-SMA AND SMA CONNECTION



Suitability for use	Flexible connecting cable for connecting a cabinet bushing with SMA connection to an access point/client
Cable length	2 m

Electrical data	
Number of electrical connections	2
Type of electrical connection	RSMA/ SMA 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	
• 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 <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
Burning behavior	UL 1685 (Vertical tray) and UL 1581, Sec. 1090 (H)
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 property <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> </ul>	Yes
--	-----

#### Further Information / Internet Links

Internet-Link <ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET 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> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</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/automation/net/catalog">http://www.siemens.com/automation/net/catalog</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>
---	--

- to website: Industry Online Support

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

**last modified:**

12.03.2015