

### Product type designation

### IWLAN RCoax Cable 5 GHz

SIMATIC NET, IWLAN RCOAX CABLE PE 1/2" 5GHZ SHORT DISTANCE -40 DGR C/+85 DGR C SUN RESIST. SOLD BY THE METER MIN. ORDERING QUANTITY: 20 M DELIVERY: MAX. 500 M



Suitability for operation	Suspended monorails, cranes, stacker cranes, or similar
<b>Wireless frequencies</b>	
Operating frequency	5.15 ... 5.85 GHz
<ul style="list-style-type: none"> <li>for WLAN in 5 GHz frequency band 1</li> </ul>	
<b>Electrical data</b>	
Impedance	50 Ω
Damping ratio per length	
<ul style="list-style-type: none"> <li>at 5.15 GHz / with cable mounted 10 mm above concrete / at 20 °C</li> </ul>	0.23 dB/m
<ul style="list-style-type: none"> <li>at 5.15 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C</li> </ul>	0.24 dB/m
<ul style="list-style-type: none"> <li>at 5.85 GHz / with cable mounted 10 mm above concrete / at 20 °C</li> </ul>	0.24 dB/m
<ul style="list-style-type: none"> <li>at 5.85 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C</li> </ul>	0.27 dB/m
Coupling attenuation	
<ul style="list-style-type: none"> <li>at 5.15 GHz / at 20 °C</li> </ul>	42 dB
<ul style="list-style-type: none"> <li>at 5.85 GHz / at 20 °C</li> </ul>	40 dB

• Note	c(50) for distance of 10 cm between antenna and cable
Capacity per length	76 pF/m
DC resistance per length	
• of inner conductor / at 20 °C	1.48 Ω/km
• of coaxial outer conductor / at 20 °C	2.8 Ω/km
Relative speed	88 %

### Mechanical data

Outer diameter	
• of inner conductor	4.8 mm
• of dielectric	12.4 mm
• of cable sheath	15.5 mm
Thickness / of cable sheath	1.3 mm
Material	
• of inner conductor	Copper clad aluminum
• of dielectric	Polyethylene foam
• of coaxial outer conductor	Overlapping copper foil with the slot groups bonded to cable jacket
• of cable sheath	Halogen-free polyolefine AM3
Color / of cable sheath	pastel turquoise
Bending radius	
• with single bend / minimum permissible	200 mm
Number of bending cycles	1
Tensile load / maximum	1100 N
Weight per length	0.232 kg/m
Mounting distance	
• recommended	0.5 m

### Permitted ambient conditions

Ambient temperature	
• during operation	-40 ... +85 °C
• during storage	-70 ... +85 °C
• during installation	-25 ... +60 °C

### Standards, specifications, approvals

Standard	
• for behavior in fire: corrosive gas emission	IEC 60754-2
• for behavior in fire: smoke emission	IEC 60332-1 and IEC 60332-3 Cat. C
• for behavior in fire: flame resistance	IEC 61034
Certificate of suitability	
• UL approval	Yes
Wireless approval	Current national approvals can be found on the Internet under <a href="http://www.siemens.com/funkzulassungen">www.siemens.com/funkzulassungen</a>

### 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>

**last modified:**

16.10.2015