

### Product type designation

### IWLAN RCoax Cable 2 GHz

SIMATIC NET, IWLAN RCOAX CABLE PE 1/2" 2.4GHZ LONG DISTANCE -40 DEGR C/+85 DEGR C SUN RESIST., SOLD BY THE METER MINIMUM ORDER AMOUNT 20M DELIVERY: MAX. 500 M



Suitability for operation	Suspended monorails, cranes, stacker cranes, or similar
<b>Wireless frequencies</b>	
Operating frequency	2.4 ... 2.485 GHz
<ul style="list-style-type: none"> <li>for WLAN in 2.4 GHz frequency band</li> </ul>	
<b>Electrical data</b>	
Impedance	50 $\Omega$
Damping ratio per length	
<ul style="list-style-type: none"> <li>at 2.4 GHz / with cable mounted 10 mm above concrete / at 20 °C</li> </ul>	0.15 dB/m
<ul style="list-style-type: none"> <li>at 2.4 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C</li> </ul>	0.17 dB/m
Coupling attenuation	
<ul style="list-style-type: none"> <li>at 2.4 GHz / at 20 °C</li> </ul>	35 dB
<ul style="list-style-type: none"> <li>Note</li> </ul>	c(50) for distance of 10 cm between antenna and cable
Capacity per length	76 pF/m
DC resistance per length	
<ul style="list-style-type: none"> <li>of inner conductor / at 20 °C</li> </ul>	1.48 $\Omega$ /km
<ul style="list-style-type: none"> <li>of coaxial outer conductor / at 20 °C</li> </ul>	2.8 $\Omega$ /km

Relative speed	88 %
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### Mechanical data

Outer diameter	
<ul style="list-style-type: none"> <li>• of inner conductor</li> <li>• of dielectric</li> <li>• of cable sheath</li> </ul>	4.8 mm 12.4 mm 15.5 mm
Thickness / of cable sheath	1.3 mm
Material	
<ul style="list-style-type: none"> <li>• of inner conductor</li> <li>• of dielectric</li> <li>• of coaxial outer conductor</li> <li>• of cable sheath</li> </ul>	Copper clad aluminum Polyethylene foam Overlapping copper foil with the slot groups bonded to cable jacket Halogen-free polyolefine AM3
Color / of cable sheath	pastel turquoise
Bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> </ul>	200 mm
Number of bending cycles	1
Tensile load / maximum	1100 N
Weight per length	0.232 kg/m
Mounting distance	
<ul style="list-style-type: none"> <li>• recommended</li> </ul>	0.5 m

### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during installation</li> </ul>	-40 ... +85 °C -70 ... +85 °C -25 ... +60 °C

### Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> <li>• for behavior in fire: corrosive gas emission</li> <li>• for behavior in fire: smoke emission</li> <li>• for behavior in fire: flame resistance</li> </ul>	IEC 60754-2 IEC 60332-1 and IEC 60332-3 Cat. C IEC 61034
Certificate of suitability	
<ul style="list-style-type: none"> <li>• UL approval</li> </ul>	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	
<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> </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>

- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/automation/net/catalog>

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

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

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

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