

Product type designation

IWLAN RCoax Cable 5 GHz

IWLAN RCoax cable PE 1/2" 5 GHz short distance -40 °C/+85 °C ext. temperature range. Sold by the meter Minimum order 20 m

Delivery unit: max. 500 m



Suitability for operation

For example, suspended monorails, cranes, stacker cranes. Line is water-repellent, resistant to microbes, and extremely resistant to many cleaning agents and disinfectants (such as iodophors, peroxyacetic acids (1% solution), and quaternary ammonium cations). Cleaning with high-pressure cleaner up to 50 kg.

Radio frequencies

Operating frequency

- for WLAN in 5 GHz frequency band 1

5.15 ... 5.85 GHz

Electrical data

Impedance

50 Ω

Damping ratio per length

- at 5.15 GHz / with cable mounted 10 mm above concrete / at 20 °C
- at 5.15 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C
- at 5.85 GHz / with cable mounted 10 mm above concrete / at 20 °C
- at 5.85 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C

0.23 dB/m
0.24 dB/m
0.24 dB/m
0.27 dB/m

Coupling attenuation	
<ul style="list-style-type: none"> • at 5.15 GHz / at 20 °C • at 5.85 GHz / at 20 °C • Note 	<p>42 dB</p> <p>40 dB</p> <p>c(50) for distance of 10 cm between antenna and cable</p>
Capacity per length	76 pF/m
DC resistance per length	
<ul style="list-style-type: none"> • of inner conductor / at 20 °C • of coaxial outer conductor / at 20 °C 	<p>1.48 Ω/km</p> <p>2.8 Ω/km</p>
Relative speed	88 %

Mechanical data

Outer diameter	
<ul style="list-style-type: none"> • of inner conductor • of dielectric • of cable sheath 	<p>4.8 mm</p> <p>12.4 mm</p> <p>15.5 mm</p>
Thickness / of cable sheath	1.3 mm
Material	
<ul style="list-style-type: none"> • of inner conductor • of dielectric • of coaxial outer conductor • of cable sheath 	<p>Copper clad aluminum</p> <p>Polyethylene foam</p> <p>Overlapping copper foil with the slot groups bonded to cable jacket</p> <p>Halogen-free polyolefine AM3</p>
Color / of cable sheath	pastel turquoise
Bending radius	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • recommended 	0.5 m

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during installation 	<p>-40 ... +85 °C</p> <p>-70 ... +85 °C</p> <p>-25 ... +60 °C</p>
Product feature / resistant to UV radiation	Yes

Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> • for burning behavior <ul style="list-style-type: none"> — corrosive gas emission — smoke emission — flame resistance 	<p>IEC 60754-2</p> <p>IEC 60332-1 and IEC 60332-3 Cat. C</p> <p>IEC 61034</p>

Certificate of suitability • UL approval	Yes
Wireless approval	Current national approvals can be found on the Internet under www.siemens.com/funkzulassungen

Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
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