

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

Wireless 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

- at 5.15 GHz / at 20 °C
- at 5.85 GHz / at 20 °C
- Note

42 dB

40 dB

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
- of coaxial outer conductor / at 20 °C

1.48 Ω /km

2.8 Ω /km

Relative speed

88 %

Mechanical data	
Outer diameter	
<ul style="list-style-type: none"> • of inner conductor • of dielectric • of cable sheath 	4.8 mm 12.4 mm 15.5 mm
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 	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"> • 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

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

Standards, specifications, approvals	
Standard	
<ul style="list-style-type: none"> • for behavior in fire: corrosive gas emission • for behavior in fire: smoke emission • for behavior in fire: flame resistance 	IEC 60754-2 IEC 60332-1 and IEC 60332-3 Cat. C IEC 61034
Certificate of suitability	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center 	http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/automation/net/catalog

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

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

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

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

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