

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

Wireless frequencies

Operating frequency

- for WLAN in 2.4 GHz frequency band

2.4 ... 2.485 GHz

Electrical data

Impedance

50 Ω

Damping ratio per length

- at 2.4 GHz / with cable mounted 10 mm above concrete / at 20 °C
- at 2.4 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C

0.15 dB/m

0.17 dB/m

Coupling attenuation

- at 2.4 GHz / at 20 °C
- Note

35 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

- 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 	Copper clad aluminum
<ul style="list-style-type: none"> • of dielectric 	Polyethylene foam
<ul style="list-style-type: none"> • of coaxial outer conductor 	Overlapping copper foil with the slot groups bonded to cable jacket
<ul style="list-style-type: none"> • of cable sheath 	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 	-40 ... +85 °C
<ul style="list-style-type: none"> • during storage 	-70 ... +85 °C
<ul style="list-style-type: none"> • during installation 	-25 ... +60 °C

Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> • for behavior in fire: corrosive gas emission 	IEC 60754-2
<ul style="list-style-type: none"> • for behavior in fire: smoke emission 	IEC 60332-1 and IEC 60332-3 Cat. C
<ul style="list-style-type: none"> • for behavior in fire: flame resistance 	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 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/automation/net/catalog
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com

last modified: 09.03.2015