

### Product type designation

### IWLAN RCoax Cable 2 GHz

IWLAN RCoax cable PE 1/2 2.4 GHz long 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.

### 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	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 burning behavior	
— corrosive gas emission	IEC 60754-2
— smoke emission	IEC 60332-1 and IEC 60332-3 Cat. C
— 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>

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