

### 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 quantity 20 m delivery unit: max. 1000 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

#### attenuation factor 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 line 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

- of inner conductor
- of dielectric
- of coaxial line conductor
- of cable sheath

Copper clad aluminum

Polyethylene foam

Overlapping copper foil with the slot groups bonded to cable jacket

Halogen-free polyolefine

#### 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
<b>ambient conditions</b>	
ambient temperature	
• during operation	-40 ... +85 °C
• during storage	-70 ... +85 °C
• during installation	-25 ... +60 °C
product feature / resistant to UV radiation	Yes
<b>standards, specifications, approvals</b>	
standard	
• for fire 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 www.siemens.com/funkzulassungen
reference code / according to IEC 81346-2:2019	TFB
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAX-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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