

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. 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	5.15 ... 5.85 GHz
<ul style="list-style-type: none"> for WLAN in 5 GHz frequency band 1 	

electrical data

impedance	50 Ω
attenuation factor per length	
<ul style="list-style-type: none"> at 5.15 GHz / with cable mounted 10 mm above concrete / at 20 °C 	0.23 dB/m
<ul style="list-style-type: none"> at 5.15 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C 	0.24 dB/m
<ul style="list-style-type: none"> at 5.85 GHz / with cable mounted 10 mm above concrete / at 20 °C 	0.24 dB/m
<ul style="list-style-type: none"> at 5.85 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C 	0.27 dB/m
coupling attenuation	
<ul style="list-style-type: none"> at 5.15 GHz / at 20 °C 	42 dB
<ul style="list-style-type: none"> at 5.85 GHz / at 20 °C 	40 dB
<ul style="list-style-type: none"> note 	c(50) for distance of 10 cm between antenna and cable
capacity per length	76 pF/m
DC resistance per length	
<ul style="list-style-type: none"> of inner conductor / at 20 °C 	1.48 Ω/km
<ul style="list-style-type: none"> of coaxial line conductor / at 20 °C 	2.8 Ω/km
relative speed	88 %

mechanical data

outer diameter	
<ul style="list-style-type: none"> of inner conductor 	4.8 mm
<ul style="list-style-type: none"> of dielectric 	12.4 mm
<ul style="list-style-type: none"> of cable sheath 	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 line conductor 	Overlapping copper foil with the slot groups bonded to cable jacket
<ul style="list-style-type: none"> of cable sheath 	Halogen-free polyolefine
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 	-40 ... +85 °C -70 ... +85 °C -25 ... +60 °C
product feature / resistant to UV radiation	Yes
standards, specifications, approvals	
standard	
<ul style="list-style-type: none"> for fire behavior <ul style="list-style-type: none"> corrosive gas emission smoke emission 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
reference code	
<ul style="list-style-type: none"> according to IEC 81346-2 according to IEC 81346-2:2019 	TF TFB
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> to web page: selection aid TIA 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

last modified:

11/3/2021 