

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 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	2.4 ... 2.485 GHz
<ul style="list-style-type: none"> for WLAN in 2.4 GHz frequency band 	

electrical data

impedance	50 Ω
attenuation factor per length	
<ul style="list-style-type: none"> at 2.4 GHz / with cable mounted 10 mm above concrete / at 20 °C 	0.15 dB/m
<ul style="list-style-type: none"> at 2.4 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C 	0.17 dB/m
coupling attenuation	
<ul style="list-style-type: none"> at 2.4 GHz / at 20 °C 	35 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
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