

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	
• for WLAN in 2.4 GHz frequency band	2.4 ... 2.485 GHz

electrical data

impedance	50 Ω
attenuation factor per length	
• at 2.4 GHz / with cable mounted 10 mm above concrete / at 20 °C	0.15 dB/m
• at 2.4 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C	0.17 dB/m
coupling attenuation	
• at 2.4 GHz / at 20 °C	35 dB
• note	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 line 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 line conductor	Overlapping copper foil with the slot groups bonded to cable jacket
• of cable sheath	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
ambient conditions	
ambient temperature	
• during operation	-40 ... +85 °C
• during storage	-70 ... +85 °C
• during installation	-25 ... +60 °C
product feature / resistant to UV radiation	Yes
standards, specifications, approvals	
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
further information / internet links	
internet link	
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert . (V4.7)

last modified:

3/25/2024 

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Siemens:](#)

[6XV18752A](#)