

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.



product brand name

SIMATIC NET

Technical Product Detail Page

<https://l.siemens.com/1P6XV1875-2D>

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

Copper clad aluminum

Polyethylene foam

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
design, dimensions and weights	
diameter	15.5 mm
net weight	232 g
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
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: WLAN country approval	https://www.siemens.com/wireless-approvals
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
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