

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

<ul style="list-style-type: none"> <li>• of cable sheath</li> </ul>	Halogen-free polyolefine
color / of cable sheath	pastel turquoise
bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> </ul>	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"> <li>• recommended</li> </ul>	0.5 m
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during installation</li> </ul>	-40 ... +85 °C -70 ... +85 °C -25 ... +60 °C
product feature / resistant to UV radiation	Yes
<b>standards, specifications, approvals</b>	
standard	
<ul style="list-style-type: none"> <li>• for fire behavior <ul style="list-style-type: none"> <li>— corrosive gas emission</li> <li>— smoke emission</li> <li>— flame resistance</li> </ul> </li> </ul>	IEC 60754-2 IEC 60332-1 and IEC 60332-3 Cat. C IEC 61034
certificate of suitability	
<ul style="list-style-type: none"> <li>• UL approval</li> </ul>	Yes
wireless approval	Current national approvals can be found on the Internet under <a href="http://www.siemens.com/funkzulassungen">www.siemens.com/funkzulassungen</a>
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to web page: WLAN country approval</li> <li>• to website: Industrial communication</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAX-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/wireless-approvals">https://www.siemens.com/wireless-approvals</a> <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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