# SIEMENS

## Data sheet

| 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. |



| Technical Product Detail Page | https://i.siemens.com/1P6XV1875-2A |
|---|---|
| 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

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| operating frequency | |
| ● for WLAN in 2.4 GHz frequency band | 2.4 ... 2.485 GHz |

### electrical data

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| 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

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|---|---|
| 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 |

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| weight per length | 0.232 kg/m |
| mounting distance | |
| ● recommended | 0.5 m |

## ambient conditions

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| 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

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|---|---|
| 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

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| 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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| 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) |

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| **last modified:** | 1/12/2026 |