



**THE DATASHEET OF  
6XV18752A**



### 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"> <li>for WLAN in 2.4 GHz frequency band</li> </ul> |                   |

### electrical data

|  |   |
|--|---|
| impedance  | 50 Ω  |
| attenuation factor per length  |   |
| <ul style="list-style-type: none"> <li>at 2.4 GHz / with cable mounted 10 mm above concrete / at 20 °C</li> </ul>      | 0.15 dB/m   |
| <ul style="list-style-type: none"> <li>at 2.4 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C</li> </ul> | 0.17 dB/m   |
| coupling attenuation   |   |
| <ul style="list-style-type: none"> <li>at 2.4 GHz / at 20 °C</li> </ul>  | 35 dB   |
| <ul style="list-style-type: none"> <li>note</li> </ul>   | 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"> <li>of inner conductor / at 20 °C</li> </ul>  | 1.48 Ω/km   |
| <ul style="list-style-type: none"> <li>of coaxial line conductor / at 20 °C</li> </ul>                                 | 2.8 Ω/km  |
| relative speed   | 88 %  |

### mechanical data

|  |   |
|--|---|
| outer diameter   |   |
| <ul style="list-style-type: none"> <li>of inner conductor</li> </ul>                     | 4.8 mm  |
| <ul style="list-style-type: none"> <li>of dielectric</li> </ul>                          | 12.4 mm   |
| <ul style="list-style-type: none"> <li>of cable sheath</li> </ul>                        | 15.5 mm   |
| thickness / of cable sheath  | 1.3 mm  |
| material   |   |
| <ul style="list-style-type: none"> <li>of inner conductor</li> </ul>                     | Copper clad aluminum  |
| <ul style="list-style-type: none"> <li>of dielectric</li> </ul>                          | Polyethylene foam   |
| <ul style="list-style-type: none"> <li>of coaxial line conductor</li> </ul>              | 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<br>-70 ... +85 °C<br>-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<br>IEC 60332-1 and IEC 60332-3 Cat. C<br>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>  |
| reference code   |   |
| <ul style="list-style-type: none"> <li>according to IEC 81346-2</li> <li>according to IEC 81346-2:2019</li> </ul>  | TF<br>TFB   |
| <b>further information / internet-Links</b>  |   |
| Internet-Link  |   |
| <ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul> | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a><br><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a><br><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a><br><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a> |
| <b>last modified:</b>  | 11/3/2021    |

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