

### product type designation

product description

### antenna connection cable N-Connect/SMA plug/plug

Connecting cable for SIMATIC NET antennas, preassembled

N-Connect/ SMA male/male Flexible connection cable pre-assembled, for Suitable for railway applications; flexible connecting cable e.g. for SCALANCE M antenna length: 1 m.



suitability for use

Flexible connecting cable for connecting an antenna or Rcoax cable to a SCALANCE M/W, suitable for railway applications

wire length

1 m

### electrical data

number of electrical connections

2

type of electrical connection

N-Connect/SMA male/male

transmission frequency

0 ... 6000 MHz

attenuation factor per length

- at 2.4 GHz / typical
- at 5.2 GHz / typical
- at 5.85 GHz / typical

0.47 dB/m  
0.77 dB/m  
0.83 dB/m

impedance

- rated value

50 Ω

capacity per length / at 1 kHz

80.2 pF/m

relative speed

83 %

### mechanical data

outer diameter

- of inner conductor
- of dielectric
- of cable sheath

1.4 mm  
3.8 mm  
5.5 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.1 mm

material

- of inner conductor
- of dielectric
- of cable sheath

Cu, silver plated  
SPEX  
RADOX

color

- of cable sheath

Black

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible

25 mm  
90 mm

number of bending cycles

50

weight per length


47.8 kg/km

### ambient conditions

ambient temperature

- during operation
- during storage
- during transport

-30 ... +100 °C  
-30 ... +100 °C  
-30 ... +100 °C

|   |   |
|---|---|
| protection class IP   | IP67; when plugged in   |
| <b>product features, product functions, product components / general</b>  |   |
| product feature   |   |
| <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>  | <p>Yes</p> <p>Yes</p>   |
| <b>standards, specifications, approvals</b>   |   |
| certificate of suitability  | fire protection according to DIN 5510-2, NF F 16-101  |
| <ul style="list-style-type: none"> <li>• RoHS conformity</li> <li>• fire protection in accordance with EN 45545-2</li> </ul>  | <p>Yes</p> <p>Yes</p>   |
| standard  |   |
| <ul style="list-style-type: none"> <li>• for fire behavior / smoke emission</li> <li>• for fire behavior / flame resistance</li> <li>• for fire behavior / toxic gas emission</li> </ul>  | <p>EN 61034-2</p> <p>EN 60332-1-2, IEC 60332-3-22, EN 50305,9.1.2</p> <p>NF-X 70-100</p>  |
| reference code  |   |
| <ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> <li>• according to IEC 81346-2:2019</li> </ul>   | <p>WG</p> <p>WGB</p>  |
| <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: Selection guide for cables and connectors</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul> | <p><a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a></p> <p><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p> |
| <b>last modified:</b>   | 7/7/2022   |