

### product type designation

product description

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

Connecting cable for SIMATIC NET antennas, preassembled

N-Connect male/male flexible connection cable pre-assembled; length 5 m flexible cable, for example, for the connection to antennas, suitable for IWLAN and mobile radio.



suitability for use

Flexible connecting cable for connecting an antenna or RCoax cable to a SCALANCE M/W

wire length

5 m

### electrical data

number of electrical connections

2

type of electrical connection

N-Connect/N-Connect male/male

transmission frequency

0 ... 6000 MHz

attenuation factor per length

- at 2.4 GHz / typical

0.53 dB/m

- at 5.2 GHz / typical

0.83 dB/m

- at 5.85 GHz / typical

0.89 dB/m

return loss

- minimum

23 dB

impedance

- rated value

50 Ω

capacity per length / at 1 kHz

82 pF/m

relative speed

82 %

### mechanical data

design of the shield

Braided shield made of tin-plated copper wires

outer diameter

- of inner conductor

1.4 mm

- of dielectric

3.8 mm

- of cable sheath

6.3 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.2 mm

thickness / of cable sheath

0.76 mm

material

- of inner conductor

Cu

- of dielectric

polyethylene foam

- of cable sheath

FRNC

color

- of cable sheath

pastel turquoise

bending radius

- with single bend / minimum permissible

32 mm

- with multiple bends / minimum permissible

45 mm

tensile load / maximum

80 N

weight per length

75 kg/km

### ambient conditions

ambient temperature

<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> </ul>	-40 ... +80 °C
chemical resistance	-40 ... +80 °C
<ul style="list-style-type: none"> <li>• to mineral oil</li> </ul>	-40 ... +80 °C
radiological resistance / to UV radiation	-25 ... +80 °C
protection class IP	conditional resistance resistant IP68; when plugged in
<b>product features, product functions, product components / general</b>	
product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• silicon-free</li> </ul>	Yes
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• EAC approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• fire protection in accordance with EN 45545-2</li> </ul>	No
standard	
<ul style="list-style-type: none"> <li>• for fire behavior / flame resistance</li> </ul>	UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)
reference code	
<ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> </ul>	WG
<ul style="list-style-type: none"> <li>• according to IEC 81346-2:2019</li> </ul>	WGB
<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>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>  <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
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