

product type designation

Antenna cable for RTLS, FME / RP-TNC

product description

Coaxial cable

SIMATIC RTLS accessory, antenna cable FME-F / RSMA-M, length 3 m.



Technical Product Detail Page

<https://l.siemens.com/1P6GT2791-6AH30>

suitability for use

Plug-in cable for connecting a FME antenna to a transponder or gateway

cable designation

SIMATIC NET Antenna Cable FRNC * 16AWG, E116441 CL3

wire length

3 m

electrical data

number of electrical connections

2

type of electrical connection

FME (female, straight) / R-SMA (male, straight)

attenuation factor per length

- at 2.4 GHz / typical

0.053 dB/m

impedance

- rated value

50 Ω

mechanical data

design of the shield

Braided shield made of tin-plated copper wires

outer diameter

- of cable sheath

6.3 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.2 mm

material

- of cable sheath

Thermoplastic copolymer (FRNC) TQ

color

- of cable sheath

RAL 6034

bending radius

- with single bend / minimum permissible

31.5 mm

- with multiple bends / minimum permissible

44 mm

weight per length

75 kg/km

ambient conditions

ambient temperature

- during operation
- during storage
- during transport
- during installation

-40 ... +80 °C
-40 ... +80 °C
-40 ... +80 °C
-25 ... +80 °C

chemical resistance

- to mineral oil
- to grease

conditional resistance
Conditional resistance

radiological resistance / to UV radiation

resistant

product features, product functions, product components / general

product feature

- halogen-free

Yes

<ul style="list-style-type: none"> silicon-free 	Yes
standards, specifications, approvals	
certificate of suitability <ul style="list-style-type: none"> RoHS conformity 	Yes
<ul style="list-style-type: none"> standard / for fire behavior / flame resistance 	UL 1685 (vertical tray), UL 1581, sec. 1090 (H), ECE-R 118:2019-06, § 6.2.6 acc. ISO 6722-1 § 5.22
further information / internet links	
internet link <ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to web page: SiePortal to website: Image database to website: CAx-Download-Manager to website: Industry Online Support 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
security information	
security information	<p>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)</p>

Approvals / Certificates

General Product Approval



last modified:

10/28/2025