

ANT-OMNI-2459-04 - Antenna

1284780

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Multiband omnidirectional antenna for freely mobile applications, compact design, frequency band: 2.4 GHz / 5 GHz / 6 GHz, gain: 2.0 dBi / 2.5 dBi / 3.0 dBi, degree of protection: IP68/IP69K, shock- and vibration-resistant, connection: N (male)

Your advantages

- Compact design
- Ideally suited for freely mobile applications with 2.4 GHz, 5 GHz, or 6 GHz
- Universal use with the wide frequency range
- Shock- and vibration-resistant

Commercial data

Item number	1284780
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNN
Product key	DNN2Z1
GTIN	4063151490621
Weight per piece (including packing)	49.6 g
Weight per piece (excluding packing)	49.5 g
Customs tariff number	85177100
Country of origin	CN

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Technical data

Notes

Note on application

Note on application	Only for industrial use
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Product properties

Product type	Antenna
Radiation characteristics	Omnidirectional
Gain	1.5 dBi (1.7 GHz ... 2.0 GHz)
	2 dBi (2.0 GHz ... 2.7 GHz)
	1.5 dBi (2.7 GHz ... 4.2 GHz)
	2.5 dBi (4.9 GHz ... 5.9 GHz)
	3 dBi (5.9 GHz ... 7.1 GHz)
Polarization	Linear vertical

Electrical properties

Frequency band	2.4 GHz
	5 GHz
	6 GHz
Frequency range	1.7 GHz ... 7.1 GHz
Impedance	50 Ω
Maximum capacity	120.00 W
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 2.00

Connection data

Connection technology

Connection method	N (male)
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Dimensions

Length	55 mm
Diameter	22 mm

Material specifications

Material	ASA, Acrylic ester styrene-acrylonitrile
Flammability rating according to UL 94	HB

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP68/IP69K
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

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Approvals

Electronic devices in rail vehicles

Shock (operation)	In accordance with EN 61373 (category 1, class B)
Vibration (operation)	In accordance with EN 61373 (category 1, class B)

Standards and regulations

Standards/specifications	EN 45545-2
Note	Fire protection on railway vehicles
Standards/specifications	EN 50155
Note	Railway application

Mounting

Mounting type	Control cabinet
Assembly note	Accessories required
	Outdoors and indoors

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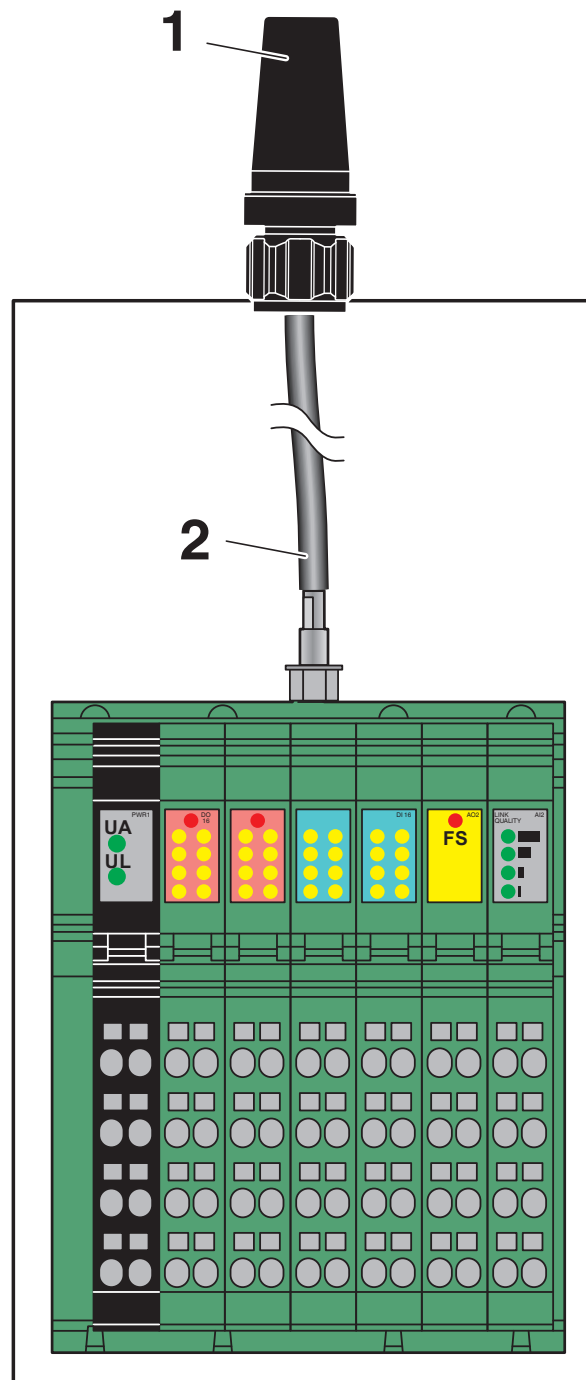
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Drawings

Schematic diagram



Installation example

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Classifications

ECLASS

ECLASS-11.0	19070105
ECLASS-12.0	19070105
ECLASS-13.0	19070105

ETIM

ETIM 9.0	EC001698
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UNSPSC

UNSPSC 21.0	43223100
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	e4f5c4be-b3f1-4518-8b7d-aaa1b6c6cf23

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Accessories

RAD-PIG-EF316-N-RSMA - Antenna cable

2701402

<https://www.phoenixcontact.com/in/products/2701402>



Antenna cable for control cabinet feed-through, outside diameter: 3.2 mm (0.126 in.), inner conductor: stranded, attenuation: 0.6 / 0.9 / 1.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (female) -> RSMA (male), cable length: 0.5 m (1.6 ft.)

RAD-ADP-N/F-N/F - Adapter

2867843

<https://www.phoenixcontact.com/in/products/2867843>



Antenna adapter for control cabinet feed-through, frequency range: 0.3 GHz ... 6 GHz, degree of protection: IP65, connection: 2 x N (female)

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RAD-PIG-RSMA/N-0.5 - Antenna cable

2903263

<https://www.phoenixcontact.com/in/products/2903263>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.4 / 0.5 / 0.6 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 0.5 m (1.6 ft.)

RAD-PIG-RSMA/N-1 - Antenna cable

2903264

<https://www.phoenixcontact.com/in/products/2903264>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 1 m (3.3 ft.)

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RAD-PIG-RSMA/N-2 - Antenna cable

2903265

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Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.9 / 1.3 / 2.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 2 m (6.5 ft.)



RAD-PIG-RSMA/N-3 - Antenna cable

2903266

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Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 1.2 / 2.0 / 3.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 3 m (10 ft.)



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RAD-PIG-RSMA/N-5 - Antenna cable

2702140

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Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 2.0 / 3.3 / 4.8 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 5 m (16 ft.)



RAD-ADP-RSMA/M-RSMA/F-90 - Adapter

2904790

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Antenna adapter, frequency range: 0.3 GHz ... 6 GHz, connection: RSMA (male) -> RSMA (female), 90° angled



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