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	DN23
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

Technical data

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

Connection data

Connection technology

Connection method	N (male)

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

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

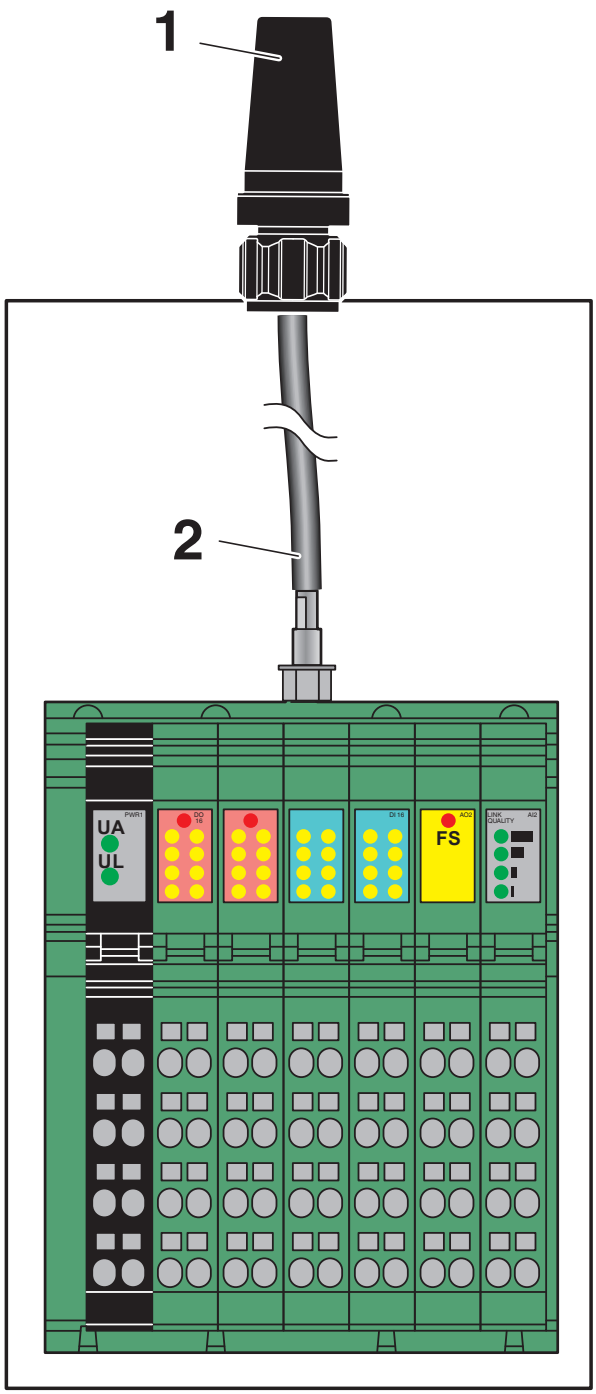
Standards/specifications	EN 45545-2
Note	Fire protection on railway vehicles
Standards/specifications	EN 50155
Note	Railway application

Mounting

Mounting type	Control cabinet
Assembly note	Accessories required
	Outdoors and indoors

Drawings

Schematic diagram



Installation example

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001698

UNSPSC

UNSPSC 21.0	43223100

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

Mandatory accessories

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

2701402

https://www.phoenixcontact.com/us/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.)

Accessories

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

2867843

https://www.phoenixcontact.com/us/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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