

ANT-OMNI-2459-04 - Antenna

1284780

<https://www.phoenixcontact.com/gb/products/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	DNN2Z1
Product key	DNN2Z1
GTIN	4063151490621
Weight per piece (including packing)	54.607 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)
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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
Material	ASA, Acrylic ester styrene-acrylonitrile (Radom)

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)
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Vibration (operation)	In accordance with EN 61373 (category 1, class B)
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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 instructions	Accessories required
	Outdoors and indoors
Connection method	N (male)

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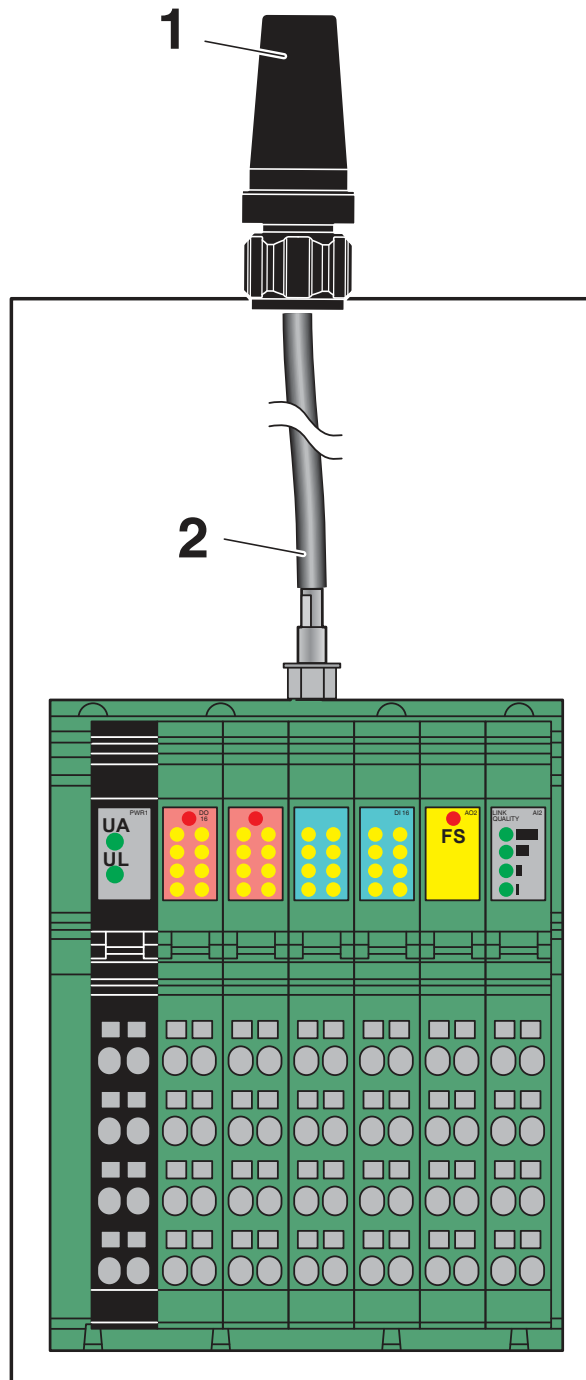
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Drawings

Schematic diagram



Installation example

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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC001698
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UNSPSC

UNSPSC 21.0	43223100
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Environmental product compliance

REACH SVHC

Lead 7439-92-1

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Mandatory accessories

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

2701402

<https://www.phoenixcontact.com/gb/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/gb/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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PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk