

# Antenna - RAD-ISM-2459-ANT-FOOD-6-0-N



2702898

<https://www.phoenixcontact.com/pc/products/2702898>

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Omnidirectional antenna with protection against vandalism, 2.4 GHz/5 GHz, gain: 6 dBi/8 dBi, polarization: linear, opening angle: h 360°, degree of protection: IP68, resistant to cleaning agents, connection: N (female), for control cabinet mounting



## Your advantages

- Resistant to cleaning agents
- Impact-resistant housing (IK08)

## Commercial Data

Item number	2702898
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	DNN2Z1
Catalog Page	Page 388 (C-6-2019)
GTIN	4055626378992
Weight per Piece (including packing)	233.85 g
Weight per Piece (excluding packing)	232.5 g
Customs tariff number	85177100
Country of origin	PL

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## Technical Data

### Product properties

Product type	Antenna
Gain	6 dBi ()
	8 dBi ()
Vertical beamwidth	25 ° (2,4 GHz ... 2,5 GHz)
	30 ° (4,9 GHz ... 7,1 GHz)
Horizontal beamwidth	360 °
Polarization	Linear vertical

### Electrical properties

Frequency band	2.4 GHz
	5 GHz
	6 GHz
Frequency range	2.4 GHz ... 2.5 GHz
	4.9 GHz ... 7.1 GHz
Impedance	50 Ω
Maximum capacity	75.00 W

### Connection data

#### Connection technology

Connection method	N (female)
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### Dimensions

Height	51 mm
Diameter	92 mm

### Material specifications

Material	ASA, Acrylic ester styrene-acrylonitrile (Radom)
	Aluminum (Base plate)
Flammability rating according to UL 94	HB

### Cable / line

Connecting cable	No
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### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP68
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Wind velocity	160 km/h

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## Approval data

### Electronic devices in rail vehicles

Shock (operation)	35g (EN 60068-2-27)
Vibration (operation)	24 h (EN 60068-2-64)

## Standards and regulations

Standards/specifications	EN 45545-2
	NF F16-101/102
Standards/specifications	EN 50155

## Mounting

Mounting type	Control cabinet
Assembly instructions	Protection class: IP68, only when mounted on a level surface
	Accessories required
	Outdoors and indoors

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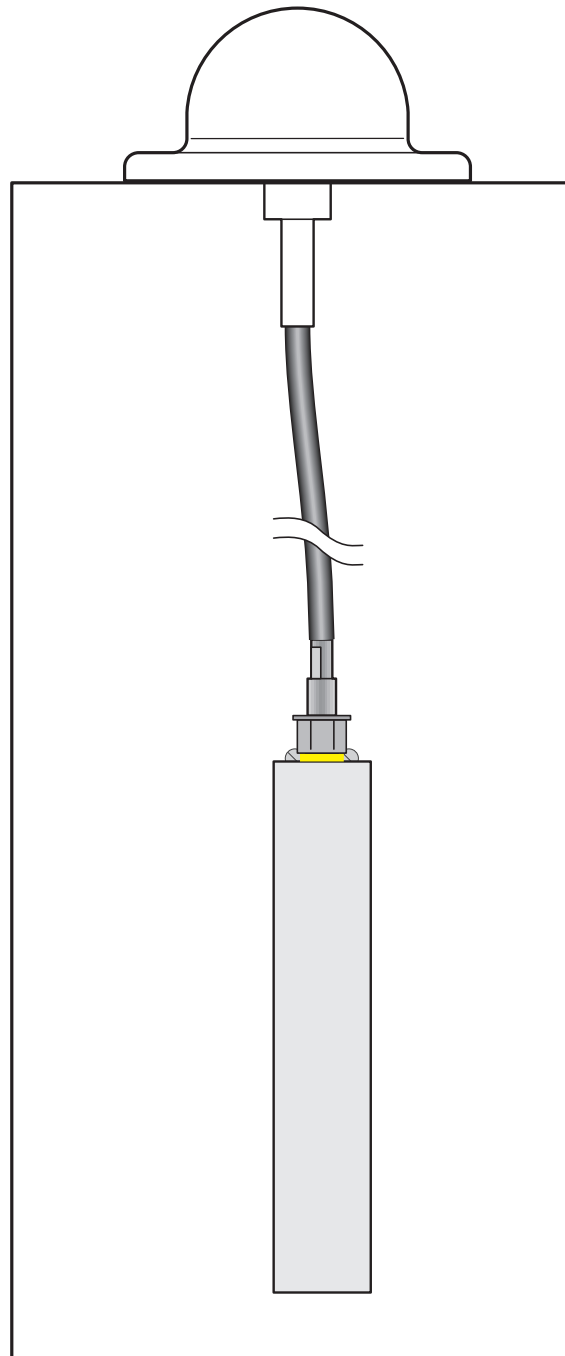
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## Drawings

Schematic diagram



## Installation example

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## Classifications

### ECLASS

ECLASS-10.0.1	19070105
ECLASS-9.0	19070105
ECLASS-11.0	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
China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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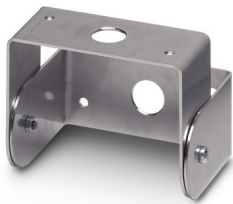
<https://www.phoenixcontact.com/pc/products/2702898>

## Accessories

### Mounting material

Mounting material - RAD-ANT-VAN-MKT - 2885870

<https://www.phoenixcontact.com/pc/products/2885870>



Mounting material for wall mounting of omnidirectional antenna with protection against vandals

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### Antenna cable

Antenna cable - RAD-PIG-RSMA/N-0.5 - 2903263

<https://www.phoenixcontact.com/pc/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.)

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## Antenna cable

Antenna cable - RAD-PIG-RSMA/N-1 - 2903264

<https://www.phoenixcontact.com/pc/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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## Antenna cable

Antenna cable - RAD-PIG-RSMA/N-2 - 2903265

<https://www.phoenixcontact.com/pc/products/2903265>



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.)



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## Antenna cable

Antenna cable - RAD-PIG-RSMA/N-3 - 2903266

<https://www.phoenixcontact.com/pc/products/2903266>

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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## Antenna cable

Antenna cable - RAD-PIG-RSMA/N-5 - 2702140

<https://www.phoenixcontact.com/pc/products/2702140>

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.)



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