

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



2702898

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Multiband omnidirectional antenna with protection against vandalism for control cabinet mounting, frequency band: 2.4 GHz / 5 GHz / 6 GHz, gain: 6 dBi / 8 dBi / 8 dBi, degree of protection: IP68, shockproof: IK08, resistant to cleaning agents, shock- and vibration-resistant, connection: N (female)



## Your advantages

- Ideally suited for freely mobile applications with 2.4 GHz, 5 GHz, or 6 GHz
- Resistant to cleaning agents
- Impact-resistant housing (IK08)
- Shock- and vibration-resistant

## Commercial data

Item number	2702898
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN23
Product key	DNN2Z1
GTIN	4055626378992
Weight per piece (including packing)	228.8 g
Weight per piece (excluding packing)	232.5 g
Customs tariff number	85177100
Country of origin	PL

## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
---------------------	-------------------------

### Product properties

Product type	Antenna
Radiation characteristics	Omnidirectional
Gain	6 dBi (2.4 GHz ... 2.5 GHz, when mounted on metal surface)
	8 dBi (4.9 GHz ... 7.1 GHz, when mounted on metal surface)
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
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 2.00

### Connection data

#### Connection technology

Connection method	N (female)
-------------------	------------

### Dimensions

Height	51 mm
Diameter	92 mm

### Material specifications

Color	anthracite gray (RAL 7016)
Material	ASA, Acrylic ester styrene-acrylonitrile
	Aluminum
Flammability rating according to UL 94	HB

### Cable/line

Connecting cable	no
Other resistance	Resistant to cleaning agents

## 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

## Approvals

### Electronic devices in rail vehicles

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

## Standards and regulations

Other resistance	Resistant to cleaning agents
Standards/specifications	EN 45545-2
	NF F16-101/102
Note	Fire protection on railway vehicles
Standards/specifications	EN 50155
Note	Railway application

## Mounting

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

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

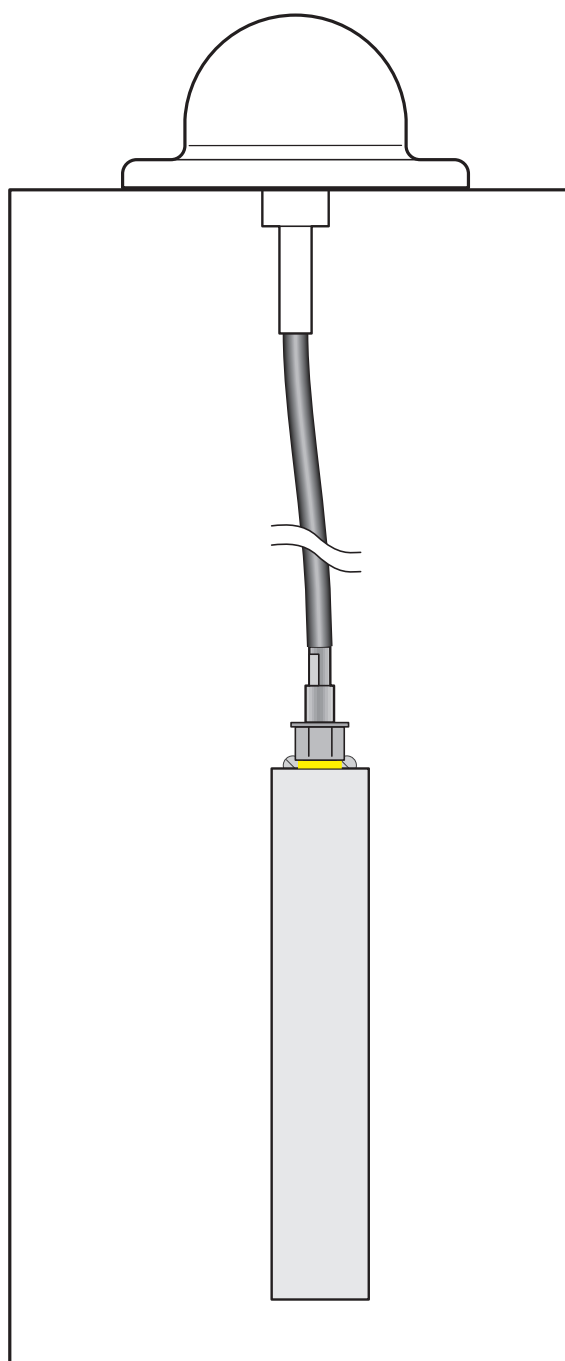
2702898

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



## Drawings

Schematic diagram



## Installation example

2702898

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

## Classifications

### ECLASS

ECLASS-13.0	19070105
ECLASS-15.0	19070105

### ETIM

ETIM 10.0	EC001698
-----------	----------

### UNSPSC

UNSPSC 21.0	43223100
-------------	----------

2702898

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

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### 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.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

### EF3.1 Climate Change

CO2e kg	10.714 kg CO2e
---------	----------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)