

# ANT-OMNI-0671-01 - Antenna

1396316

<https://www.phoenixcontact.com/us/products/1396316>

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Multiband omnidirectional antenna for wall or mast mounting, 0.6 GHz ... 7.1 GHz, gain: 1 dBi ... 3 dBi, degree of protection: IP67, seawater-resistant, connection: N (female), incl. mounting bracket and mast clamps



## Your advantages

- Ideally suited for freely mobile or stationary applications in 2G/3G/4G/5G cellular networks
- Universal use with the wide frequency range
- Resistant to salt water
- Future-proof, thanks to the use of lead-free materials

## Commercial data

Item number	1396316
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN23
Product key	DNC6A2
GTIN	4063151780616
Weight per piece (including packing)	206 g
Weight per piece (excluding packing)	141 g
Customs tariff number	85177100
Country of origin	TW

## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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### Product properties

Product type	Antenna
Scope of supply	included mounting bracket and mast clamps
Radiation characteristics	Omnidirectional
Gain	2 dBi (617 MHz ... 960 MHz)
	1 dBi (1.4 GHz ... 1.6 GHz)
	2 dBi (1.7 GHz ... 2.7 GHz)
	3 dBi (3.3 GHz ... 7.1 GHz)
Vertical beamwidth	70 ° (617 MHz ... 960 MHz)
	60 ° (1.4 GHz ... 2.7 GHz)
	45 ° (3.3 GHz ... 5.9 GHz)
	30 ° 6.0 GHz ... 7.1 GHz
Horizontal beamwidth	360 °
Polarization	Linear vertical

### Electrical properties

Frequency band	2400 MHz
	868 MHz
	700 MHz
	800 MHz
	850 MHz
	900 MHz
	1700 MHz
	1800 MHz
	1900 MHz
	2100 MHz
	2600 MHz
	3600 MHz
	5 GHz
Frequency range	0.6 GHz ... 7.1 GHz
Impedance	50 Ω
Maximum capacity	1.00 W
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 3.50

### Connection data

#### Connection technology

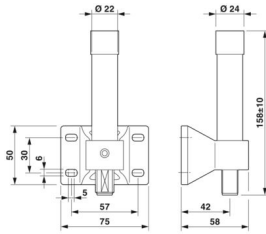
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Connection method	N (female)
Outside diameter	30 mm ... 45 mm (Mast)

## Dimensions

Dimensional drawing	
Height	158 mm
Diameter	24 mm
Hole diameter	6 mm

## External dimensions

Outside diameter	30 mm ... 45 mm (Mast)
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## Material specifications

Color	gray (RAL 7042) gray white (RAL 9002)
Material (Radom)	Plastic (glass-fiber reinforced)
Material (Holder)	Plastic (glass-fiber reinforced)
Material (U-bolt)	Stainless steel V2A
Flammability rating according to UL 94	V0

## Cable/line

Other resistance	salt water resistant
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-30 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Wind velocity	220 km/h

## Standards and regulations

Other resistance	salt water resistant
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## Mounting

Mounting type	Panel mounting Mast mounting
Assembly note	Outdoors and indoors

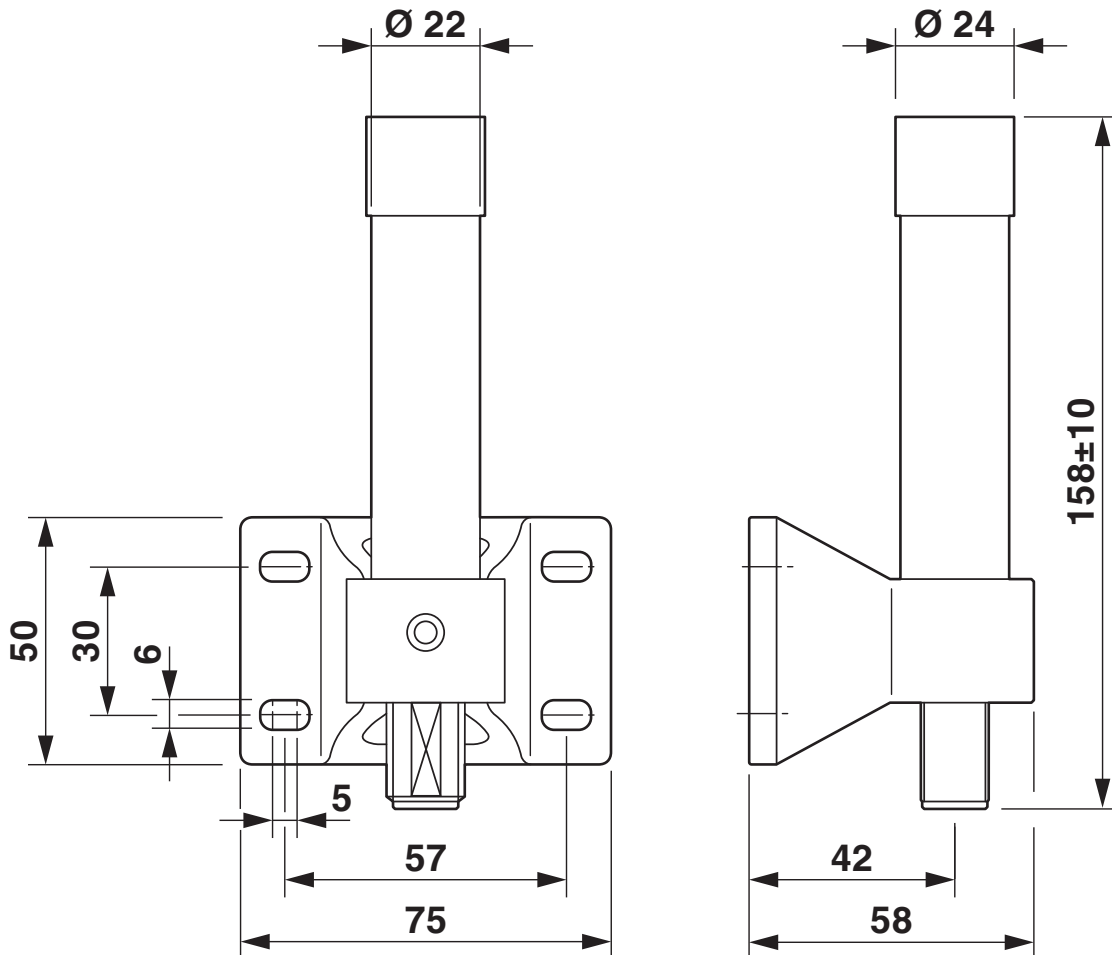
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## Drawings

Dimensional drawing



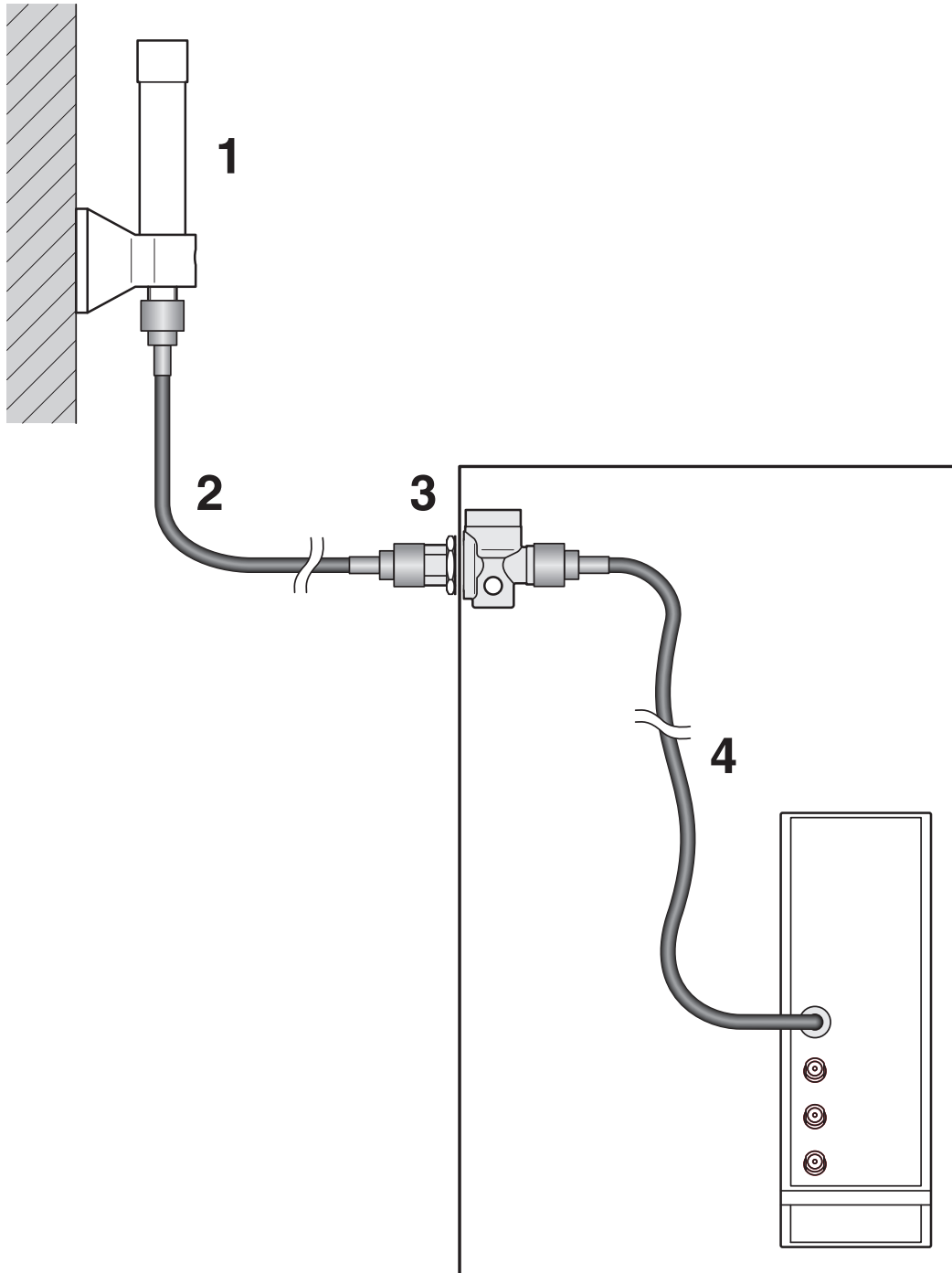
Dimensional drawing

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Schematic diagram



Installation example (antenna cable and surge protection available as accessories)

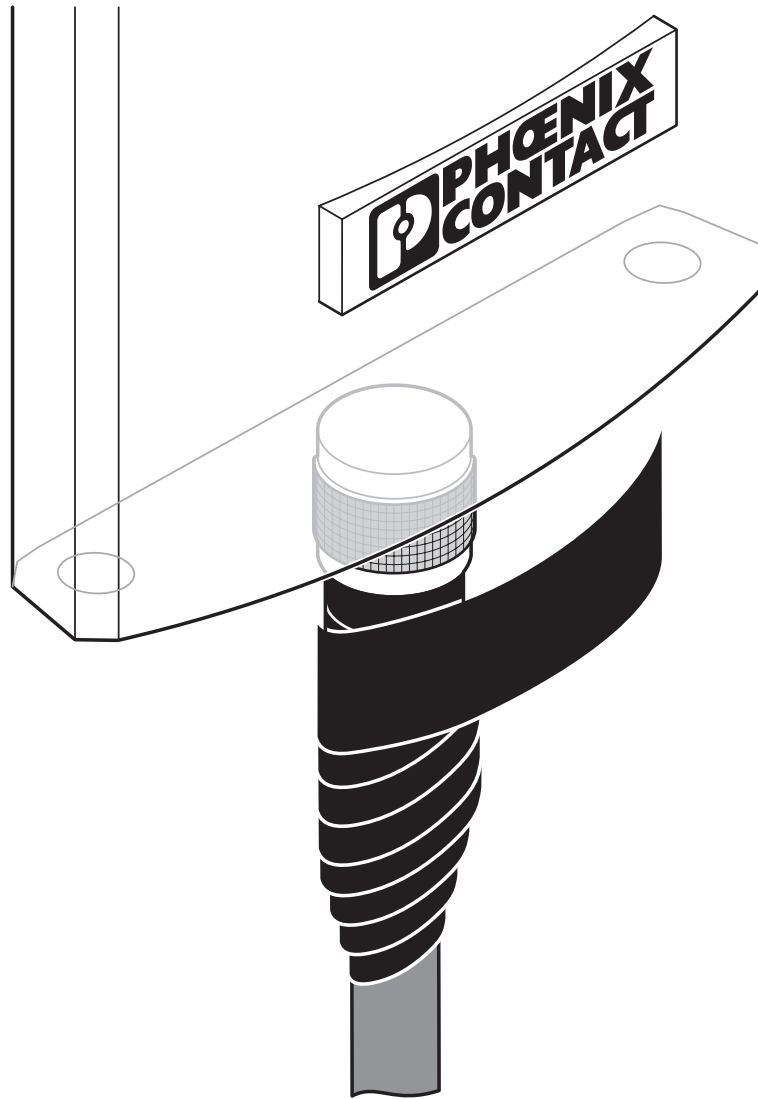
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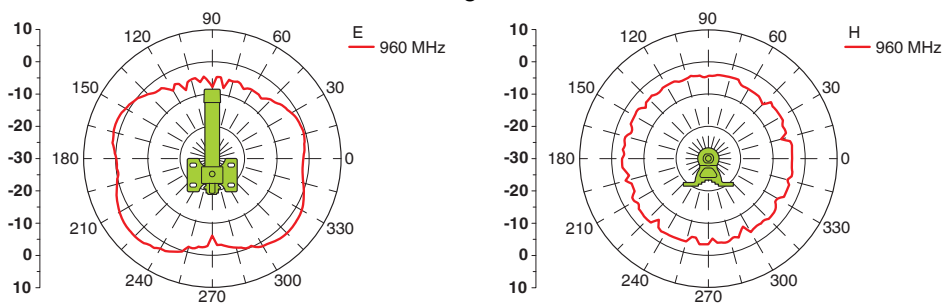


Schematic diagram



Sealing tape available as an accessory

Diagram



960 MHz directional characteristics

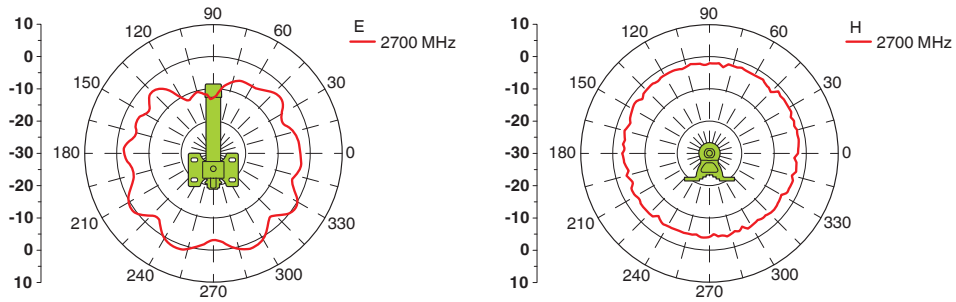
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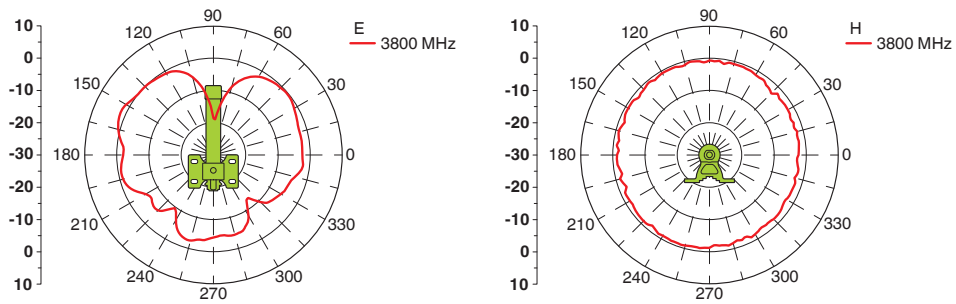
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## Diagram



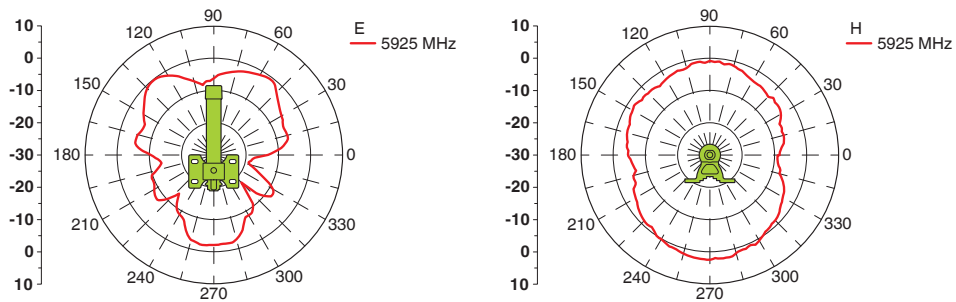
2700 MHz directional characteristics

## Diagram



3800 MHz directional characteristics

## Diagram



5925 MHz directional characteristics

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## Classifications

### ECLASS

ECLASS-13.0	19070105
ECLASS-15.0	19070105

### ETIM

ETIM 10.0	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, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	6.047 kg CO2e
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