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
Weight per piece (excluding packing)	0.18 g
Customs tariff number	85177100
Country of origin	TW

Technical data

Notes

Note on application

Note on application	Only for industrial use

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

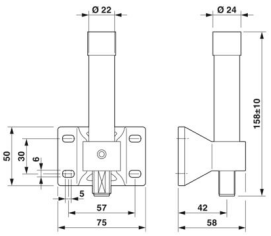
Frequency band	2400 MHz
	868 MHz
	700 MHz
	800 MHz
	850 MHz
	900 MHz
	1700 MHz
	1800 MHz
	1900 MHz
	2100 MHz
	2600 MHz
	3600 MHz
	5 GHz
Frequency range	0.6 GHz ... 7.1 GHz
Impedance	50 Ω
Maximum capacity	1.00 W
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 3.50

Connection data

Connection technology

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)

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

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

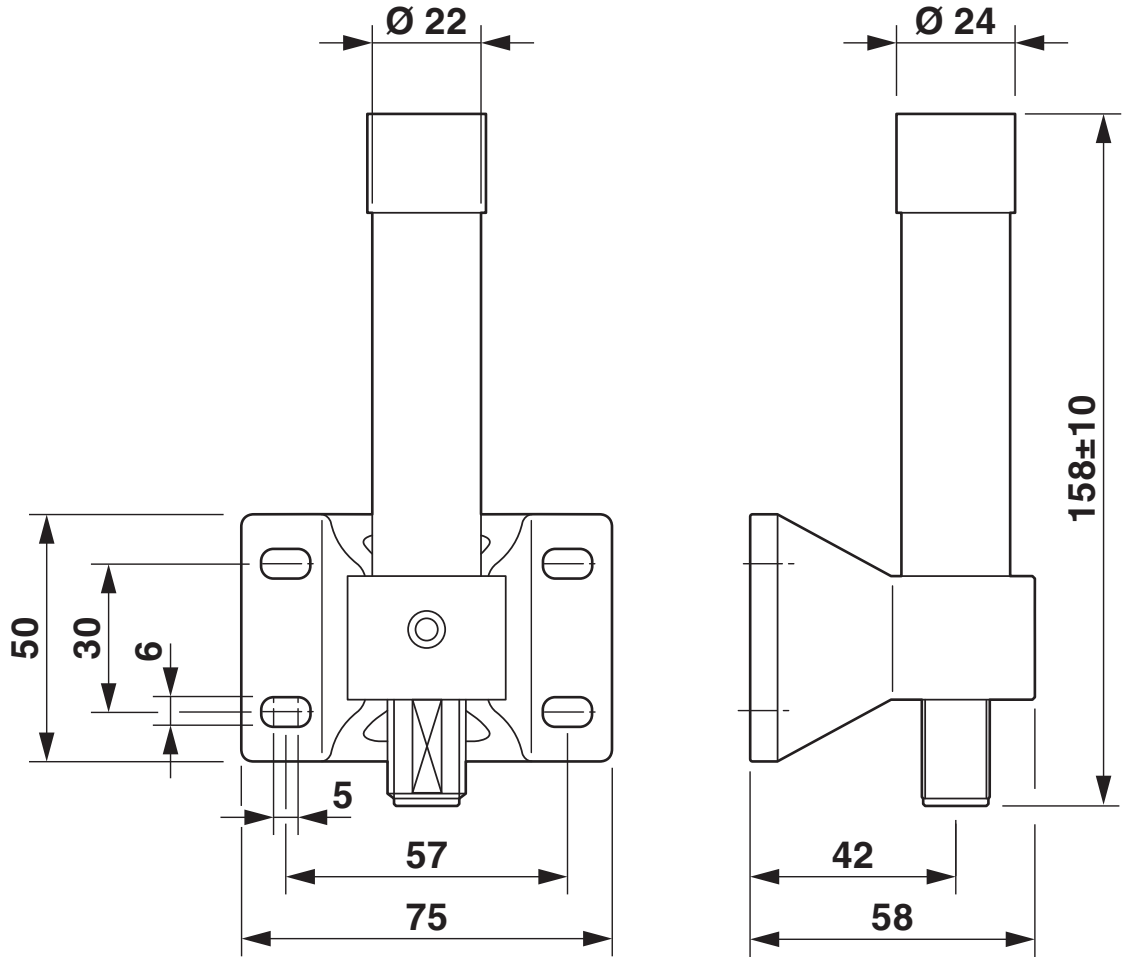
Other resistance	salt water resistant

Mounting

Mounting type	Panel mounting
	Mast mounting
Assembly note	Outdoors and indoors

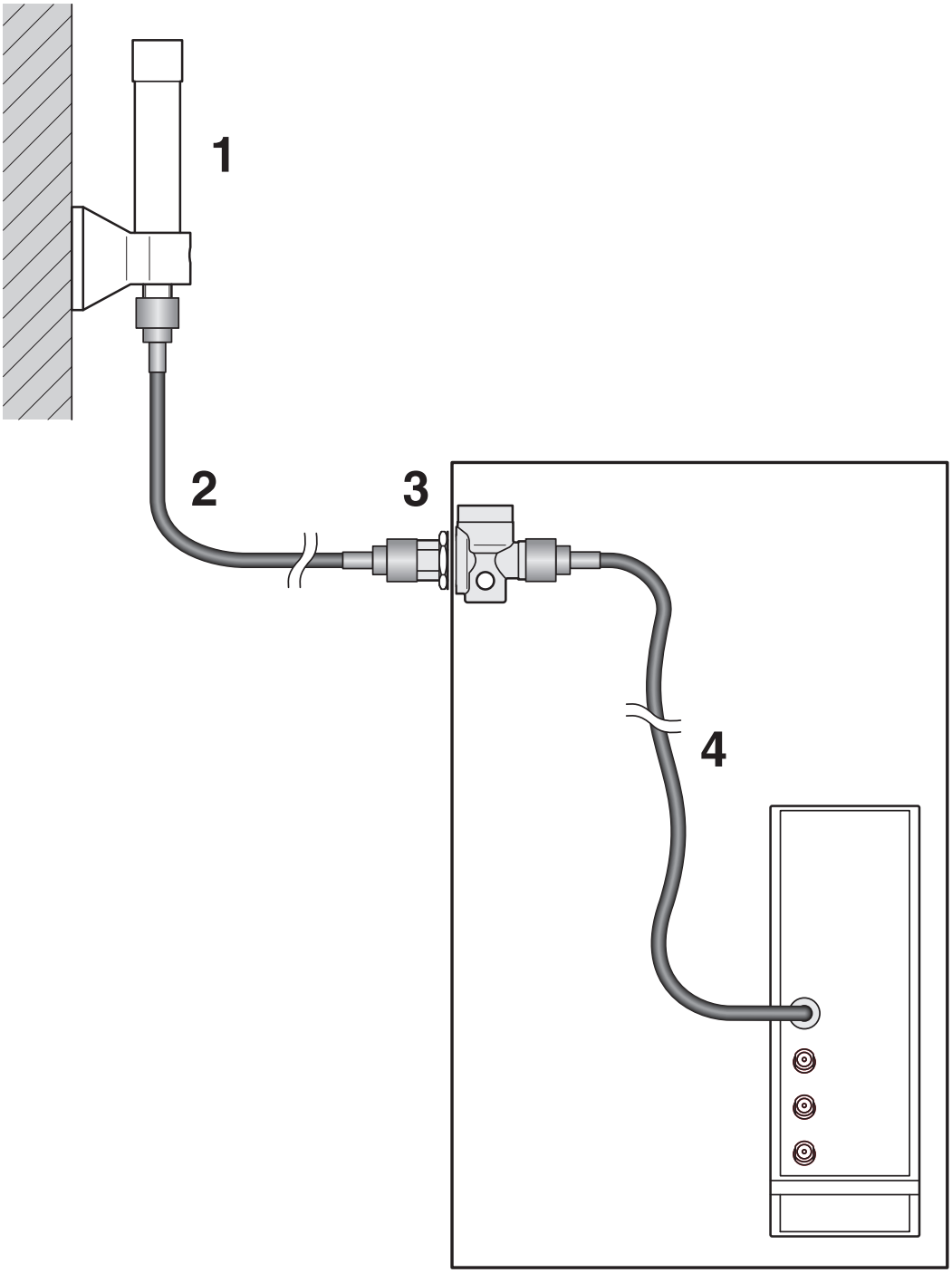
Drawings

Dimensional drawing



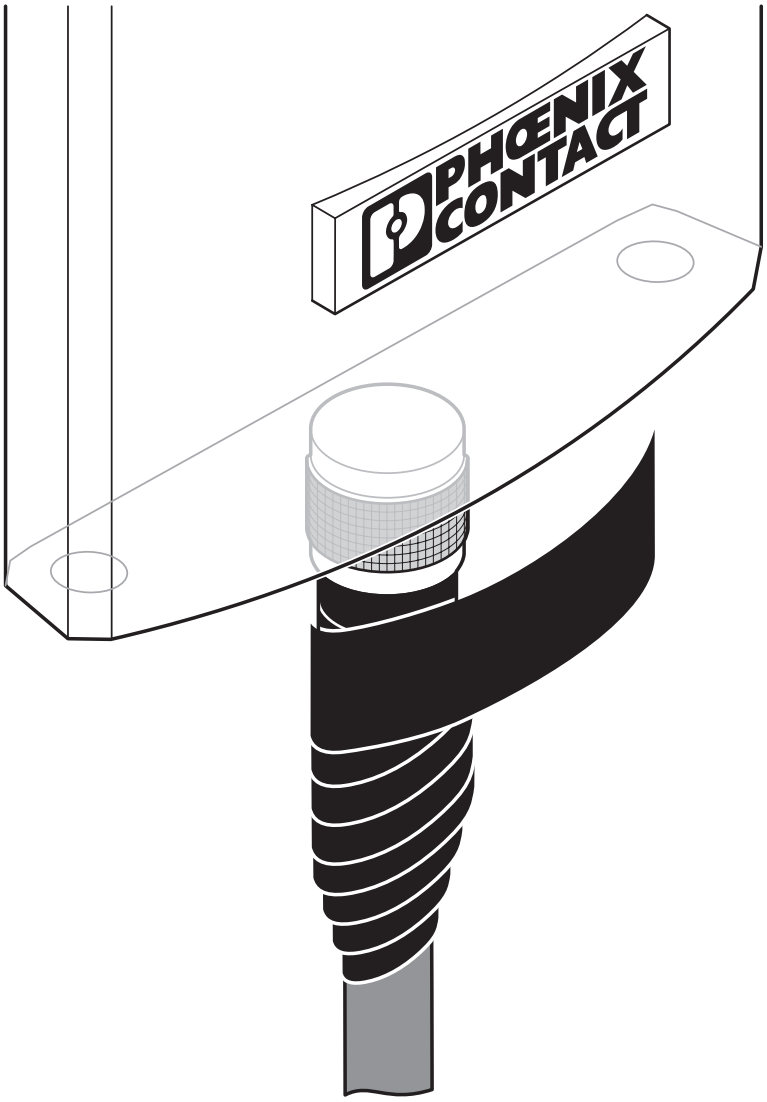
Dimensional drawing

Schematic diagram



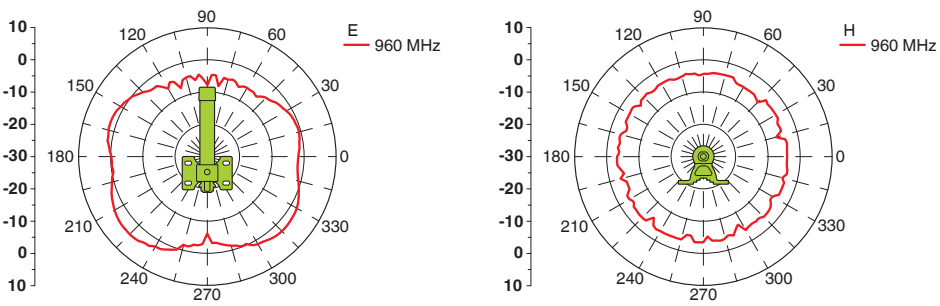
Installation example (antenna cable and surge protection available as accessories)

Schematic diagram



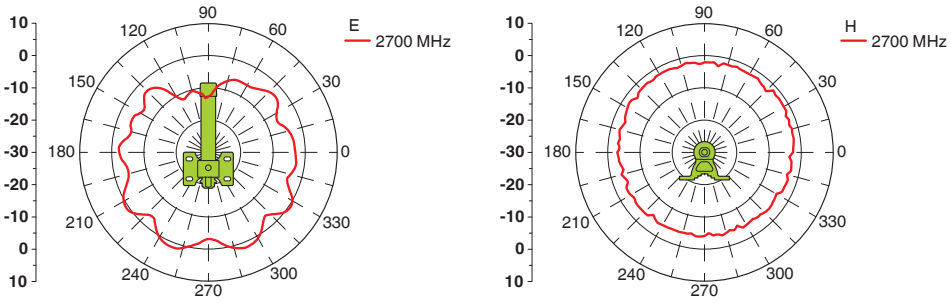
Sealing tape available as an accessory

Diagram



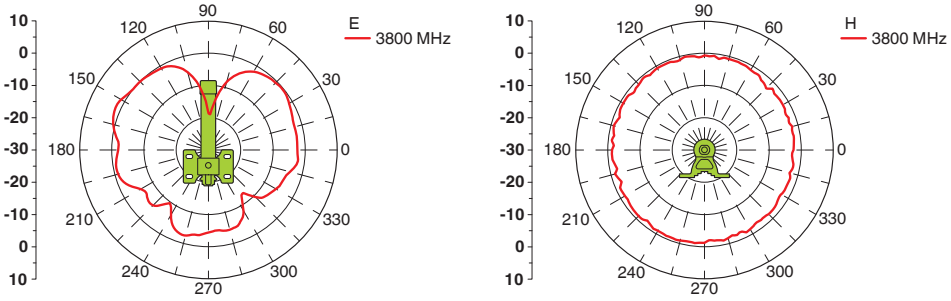
960 MHz directional characteristics

Diagram



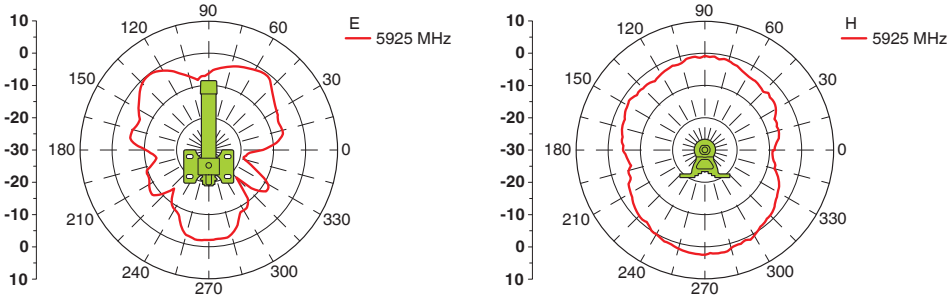
2700 MHz directional characteristics

Diagram



3800 MHz directional characteristics

Diagram



5925 MHz directional characteristics

Classifications

ECLASS

ECLASS-13.0	19070105
ECLASS-15.0	19070105

ETIM

ETIM 10.0	EC001698

UNSPSC

UNSPSC 21.0	43223100

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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%

EF3.1 Climate Change

CO2e kg	6.047 kg CO2e

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