

# ANT-OMNI-0671-02 - Antenna

1396318

<https://www.phoenixcontact.com/us/products/1396318>

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Multiband omnidirectional antenna with protection against vandalism for control cabinet mounting, frequency band: 0.6 GHz ... 7.1 GHz, gain: 2 dBi ... 4 dBi, degree of protection: IP67, shockproof: IK10, seawater-resistant, connection: N (female)

## 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
- Impact-resistant housing (IK08)
- Future-proof, thanks to the use of lead-free materials

## Commercial data

Item number	1396318
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN23
Product key	DNC6A2
GTIN	4063151780524
Weight per piece (including packing)	130 g
Weight per piece (excluding packing)	127 g
Customs tariff number	85177100
Country of origin	TW

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## 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	including mounting material
Radiation characteristics	Omnidirectional
Gain	2 dBi (617 MHz ... 960 MHz) 3 dBi (1.7 GHz ... 2.7 GHz) 4 dBi (3.3 GHz ... 7.1 GHz)
Vertical beamwidth	55 ° (617 MHz ... 960 MHz) 45 ° (1.7 GHz ... 2.7 GHz) 30 ° (3.3 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	10.00 W
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 3.50

### Connection data

#### Connection technology

Connection method	N (female)
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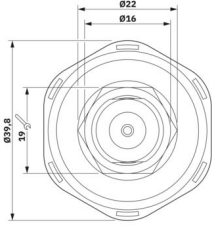
### Dimensions

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Dimensional drawing	
Height	77.7 mm
Diameter	38 mm

## Material specifications

Color	black (RAL 9005)
Material (Radom)	Polycarbonate
	PBT
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
Impact strength	IK10
Ambient temperature (operation)	-40 °C ... 85 °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
	Control cabinet mounting
Assembly note	Outdoors and indoors

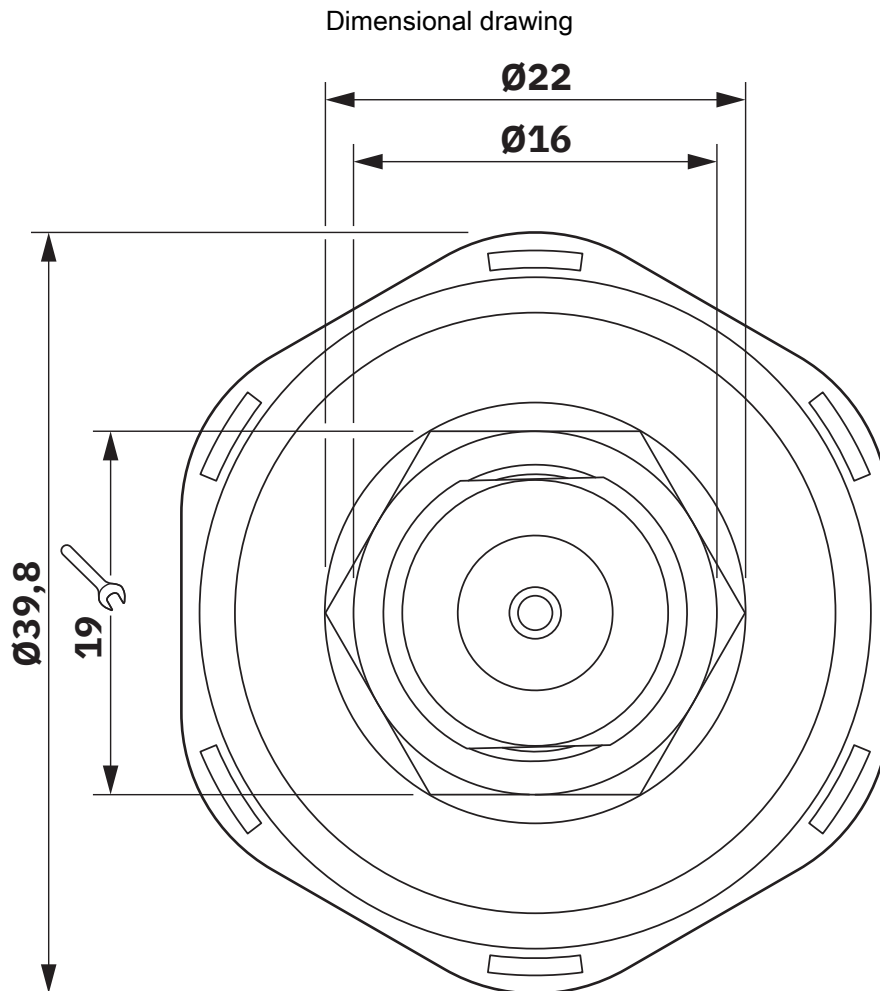
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## Drawings



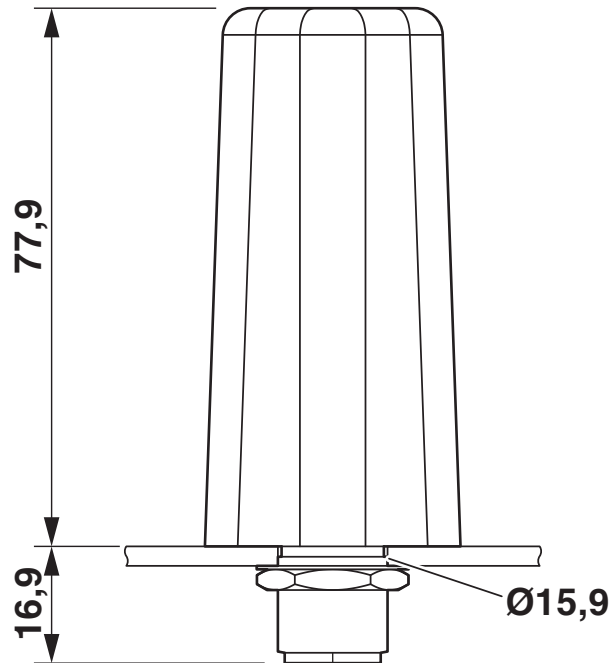
Dimensional drawing

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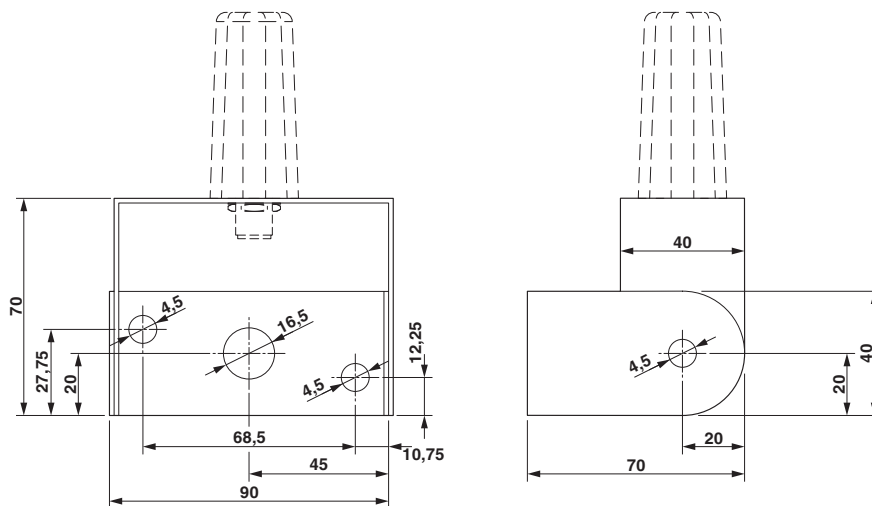
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Dimensional drawing



Dimensional drawing, side view

Dimensional drawing



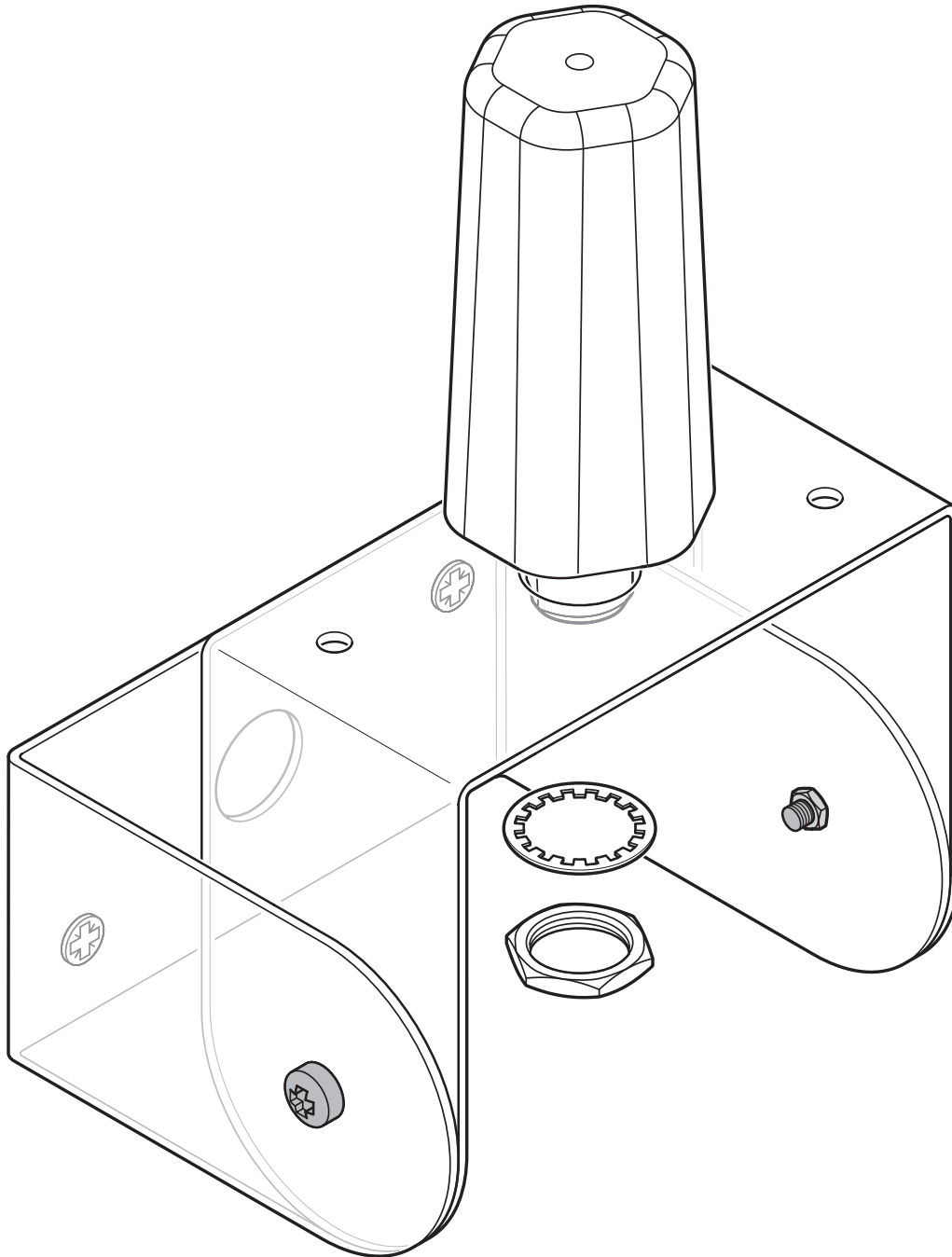
RAD-ANT-VAN-MKT mounting bracket

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Schematic diagram



Mounting on a bracket (available as an accessory)

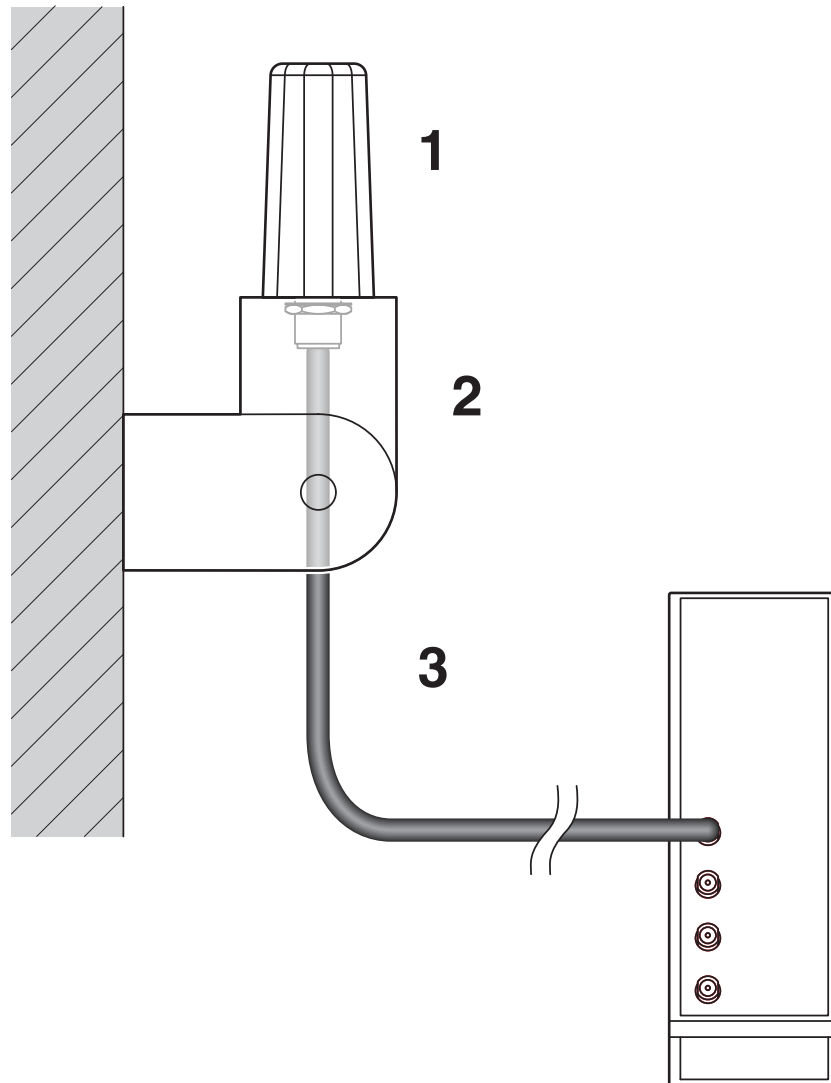
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Schematic diagram



Installation example (bracket and antenna cable available as accessories)

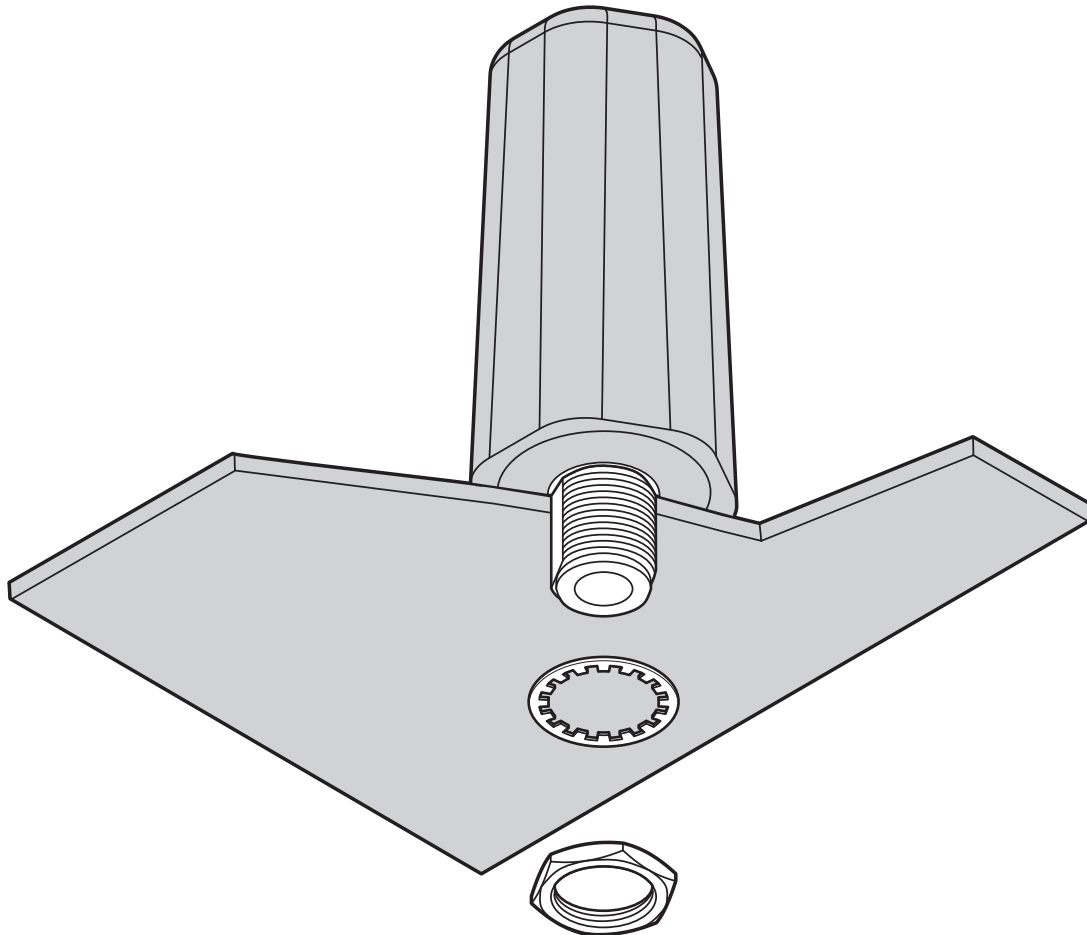
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Schematic diagram



Mounting on the control cabinet

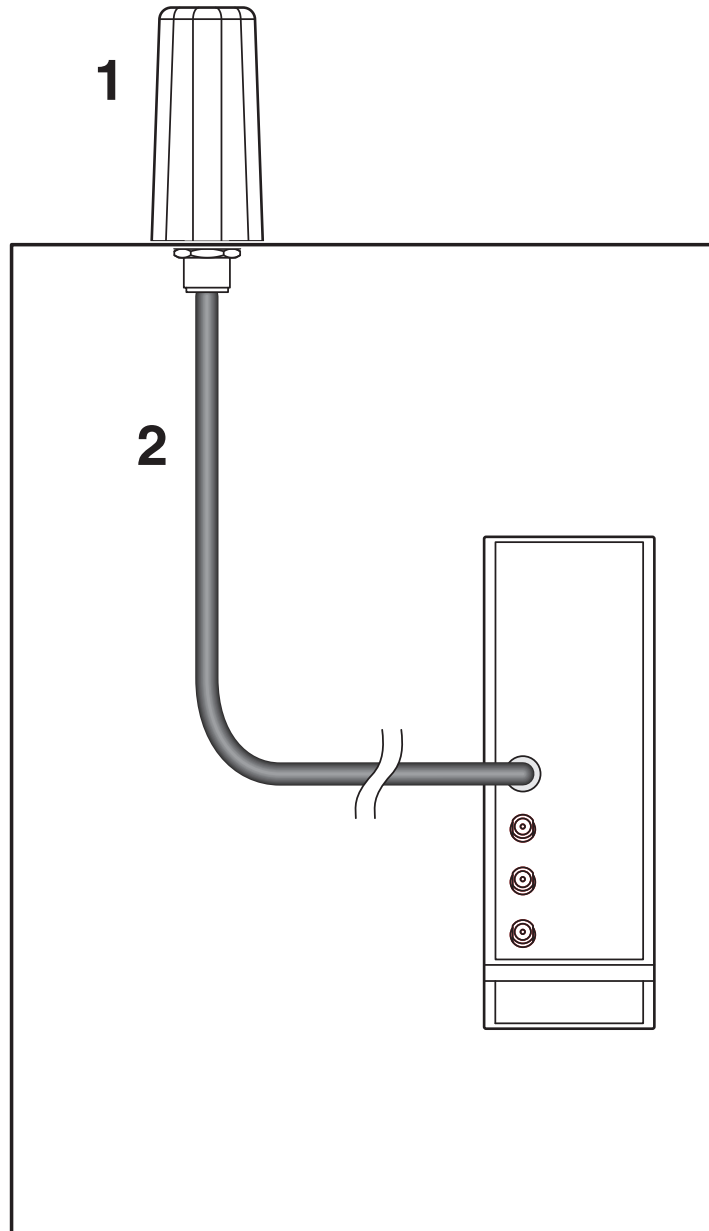
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Schematic diagram



Installation example (antenna cable available as an accessory)

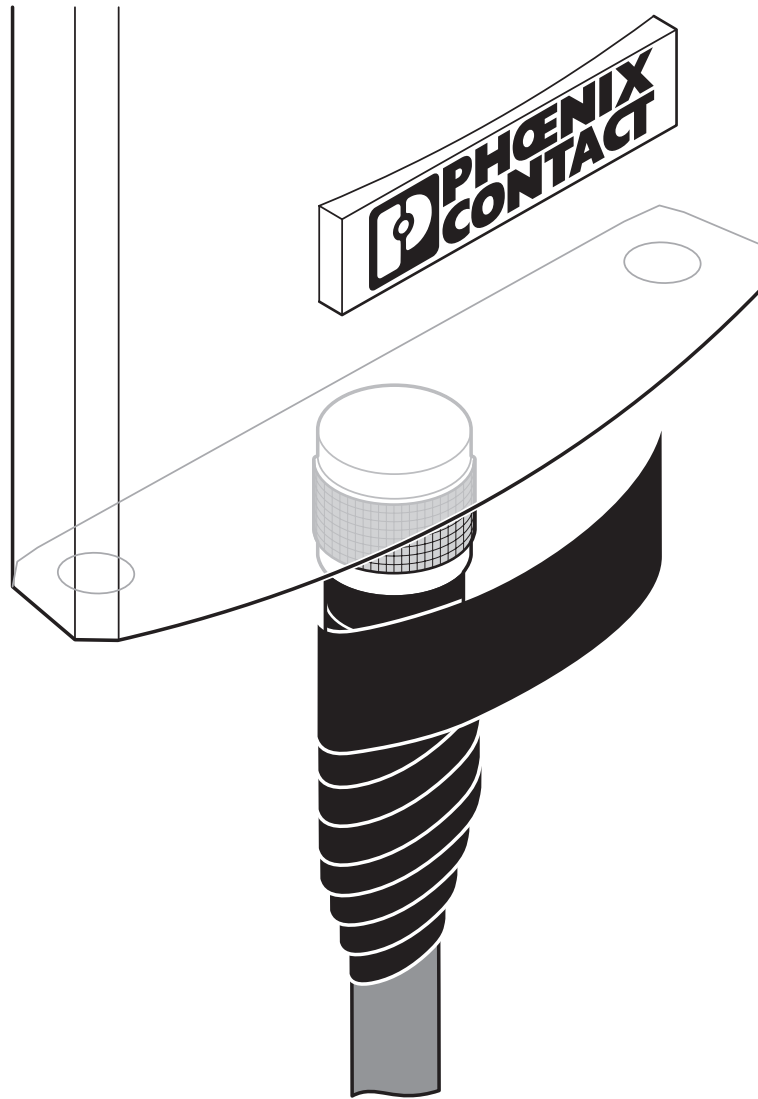
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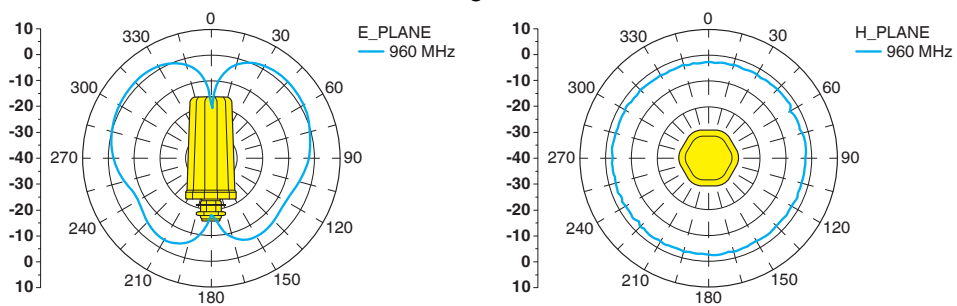


Schematic diagram



Sealing tape available as an accessory

Diagram



960 MHz directional characteristics

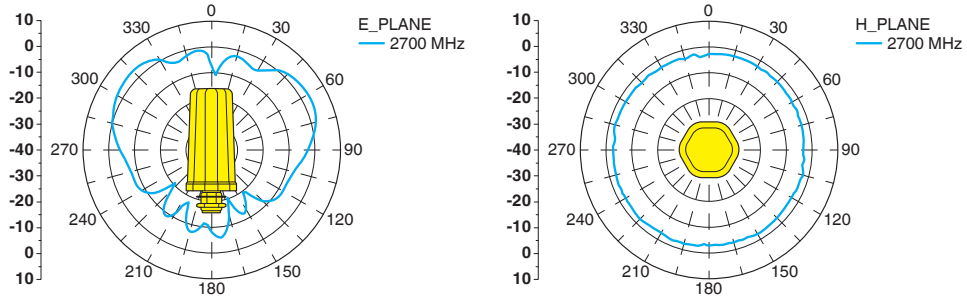
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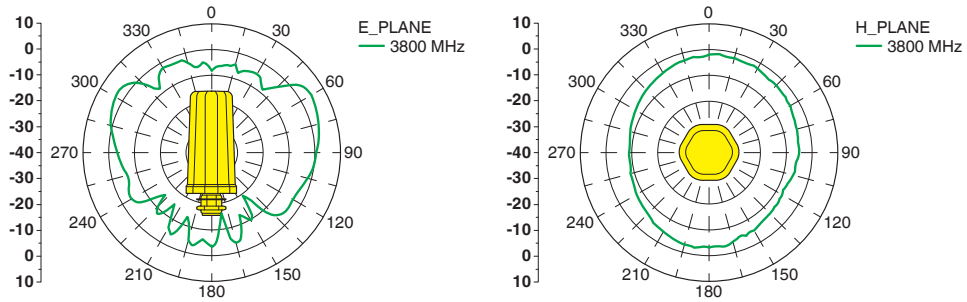
<https://www.phoenixcontact.com/us/products/1396318>

## Diagram



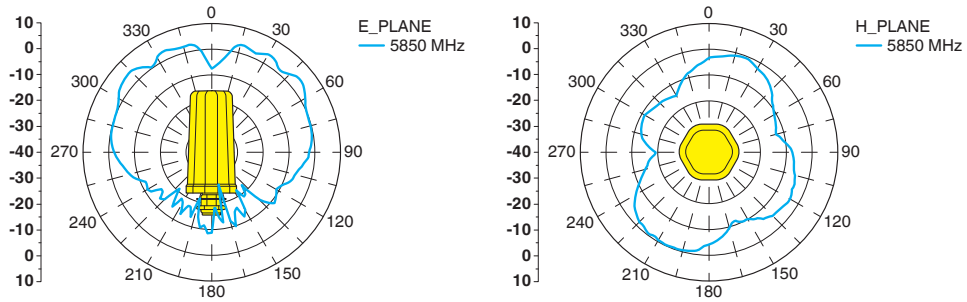
2700 MHz directional characteristics

## Diagram



3800 MHz directional characteristics

## Diagram



5850 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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