

ANT S.r.l.

Via della Concordia, 4 – 37036
S. Martino B/A (VR) - Italia
Tel. +39 045 8781380
Fax +39 045 8795335
e-mail: commerciale@antsrl.eu
www.antsrl.eu

DESCRIPTION

Wideband multiband LTE antenna
suitable for
868/915MHz applications (LoRa, LoRaWAN,
Sigfox, ISM), GSM-GPRS 900/1800MHz, 3G-UMTS
2100MHz, WiFi 2,4GHz, 4G-LTE / 5G (Bands 1, 2,
3, 5, 7, 8, 20, 28, 77, 78, 79)



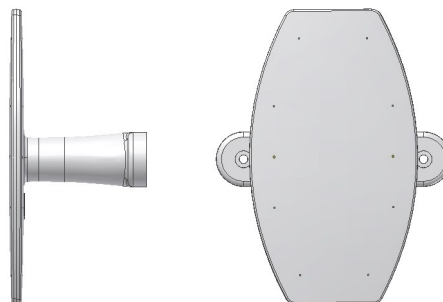
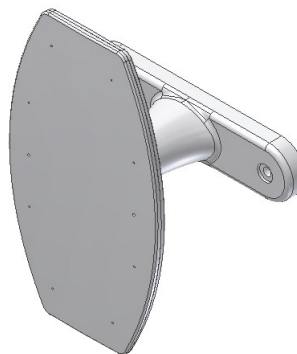
Ponal LTE (cable 1m)
Ponal LTE (cable 5m)
Ponal LTE (cable 10m)

P/N: B20-002**P/N: B20-000****P/N: B20-005****ELECTRICAL DATA**

Frequency range:
(with V.S.W.R. < 2 : 1): 698-960 / 1710-2170 /
2400-2690/3300-4700MHz
Impedance: 50 Ω
V.S.W.R. 698-960 MHz: < 2 : 1
V.S.W.R. 1710-2170 MHz: < 2 : 1
V.S.W.R. 2400-2690 MHz: < 2 : 1
V.S.W.R. 3300-4700 MHz: < 2 : 1
Max power: 10 W
Polarisation: Linear
Radiation: See Patterns
Gain 698-960 MHz: > 2.1 dBi
Gain 1710-2170 MHz: > 3.0 dBi
Gain 2400-2690 MHz: > 4.5 dBi
Gain 3300-4700 MHz: > 4.5 dBi
Beamwidth (-3dB E-plane) See patterns
Beamwidth (-3dB H-plane) See patterns

MECHANICAL DATA

Dimensions (about): 175x100x80 mm
Connection: SMA plug (other on request)
Cable: low loss Ø5mm , 1m or 5m or
10m (other on request)
Operating temperature range: -30° / +80°C
Weight (approssimativo): 0.350 kg
Radome material: Polyamide
Radiating element material: Copper
Accessories (optional): Bracket for pole mounting



Protection against oxydation: The antenna is designed to withstand the worst climatic conditions and so that the oxydation of its parts is prevented, withits components being made of raw materials resistant to external environmental agents.

Protection against accidental hits: The antenna is designed so that persons are protected from accidental hits against ots projecting parts, without any sharp edges

RoHS Directive: The antenna complies with the RoHS Directive and its susequent.

MOUNTING INSTRUCTIONS:

Wall Mounting: please use two Wall Plugs for wall mounting

Pole Mounting: Kit for pole mounting available

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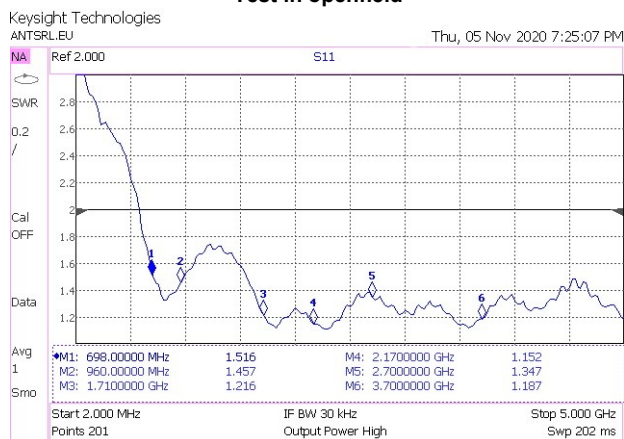


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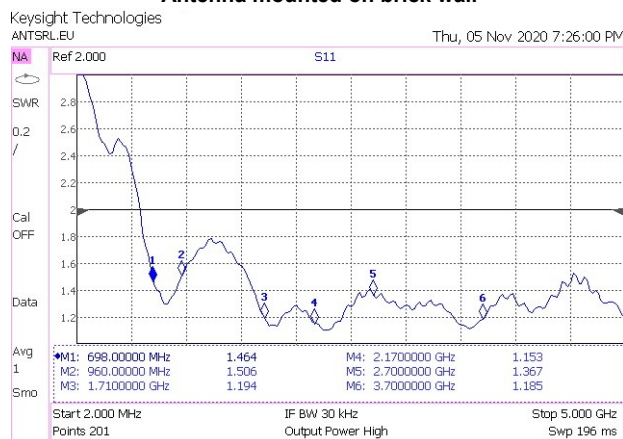
P/N: B20-002
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P/N: B20-005

V.S.W.R.

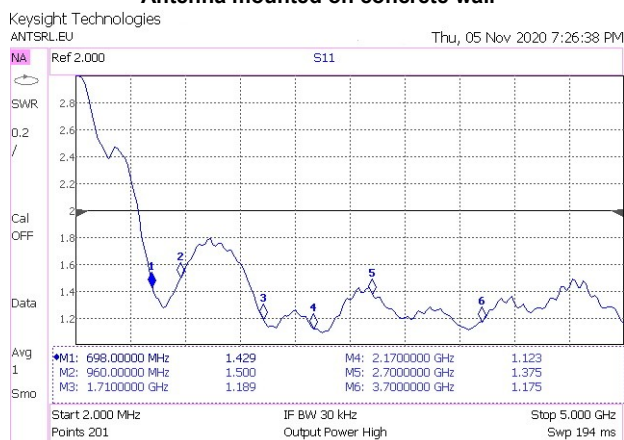
Test in openfield



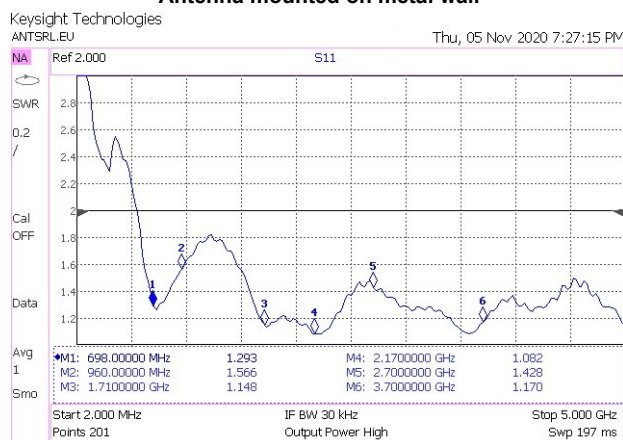
Antenna mounted on brick wall



Antenna mounted on concrete wall



Antenna mounted on metal wall



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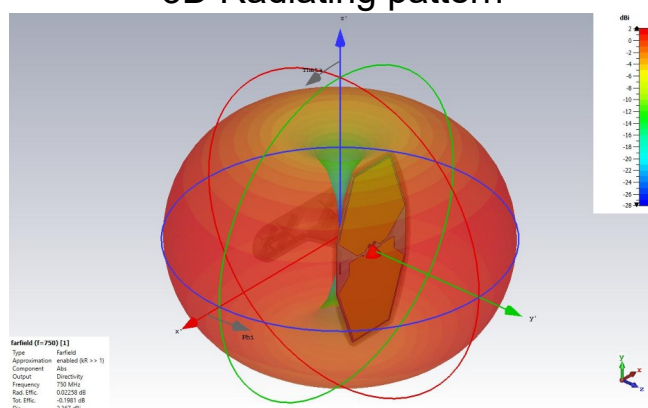
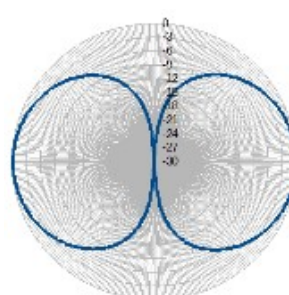
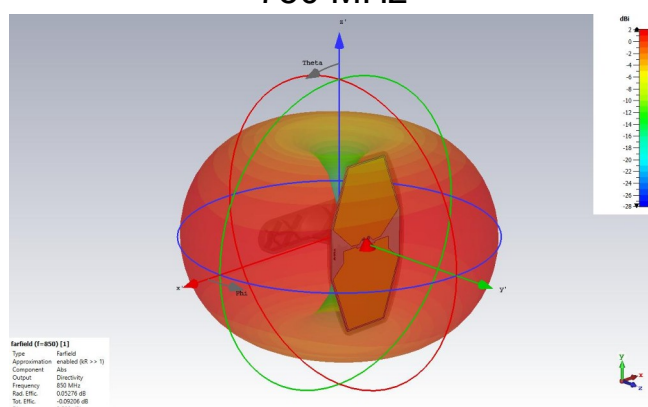
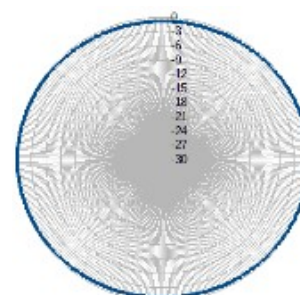
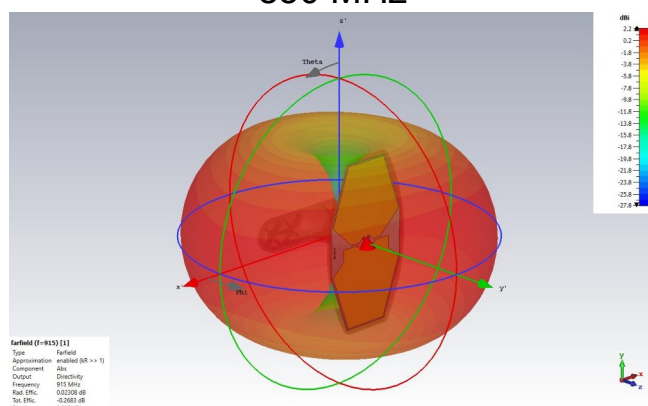
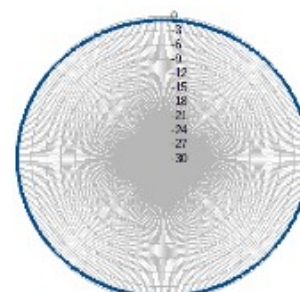
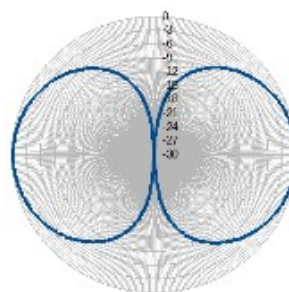
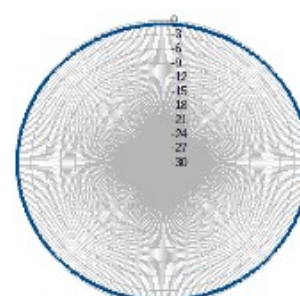
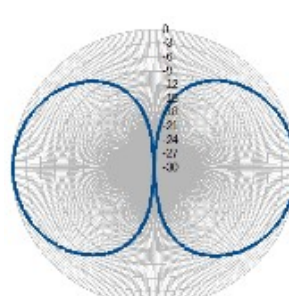
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2100MHz, WiFi 2,4GHz, 4G-LTE / 5G (Bands 1, 2,
3, 5, 7, 8, 20, 28, 77, 78, 79)



Ponal LTE (cable 1m)
Ponal LTE (cable 5m)
Ponal LTE (cable 10m)

P/N: **B20-002**
P/N: **B20-000**
P/N: **B20-005**

Radiating patterns**3D Radiating pattern****750 MHz****H - Plane****E - Plane****850 MHz****915 MHz**

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Ponal LTE (cable 10m)

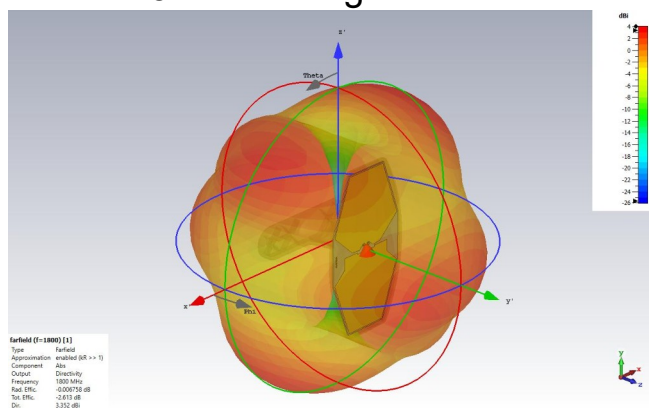
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P/N: B20-000

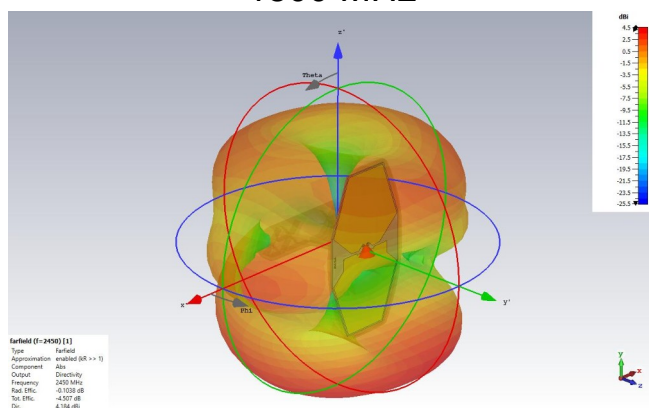
P/N: B20-005

Radiating Patterns

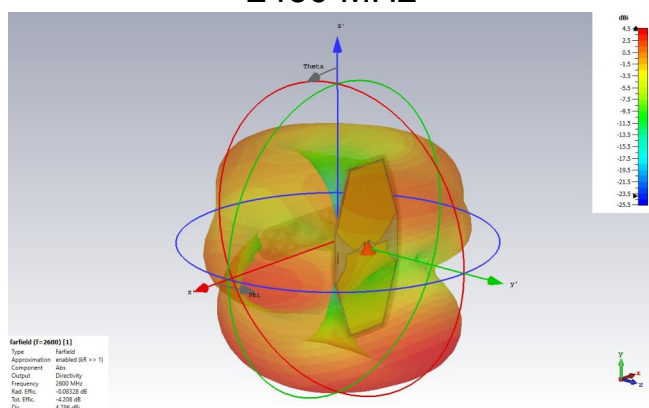
3D Radiating Patterns



1800 MHz

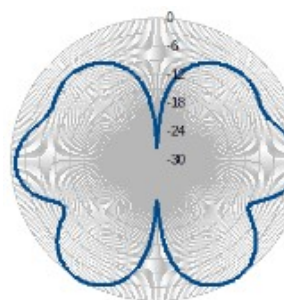
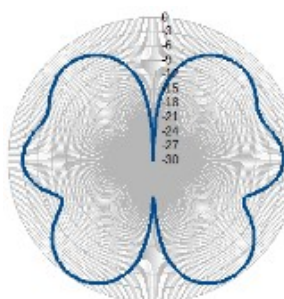
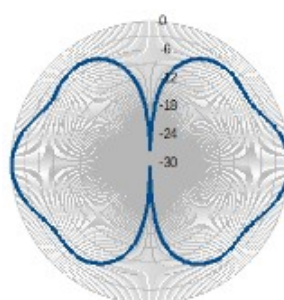


2450 MHz

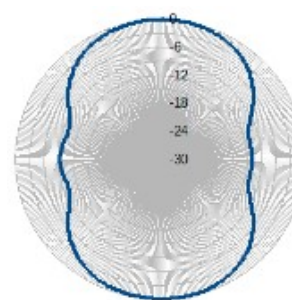
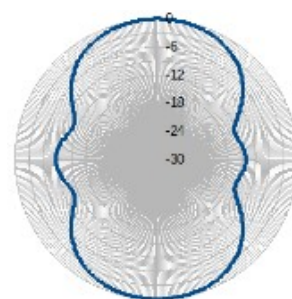
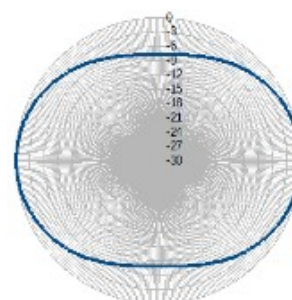


2600 MHz

H - Plane



E - Plane



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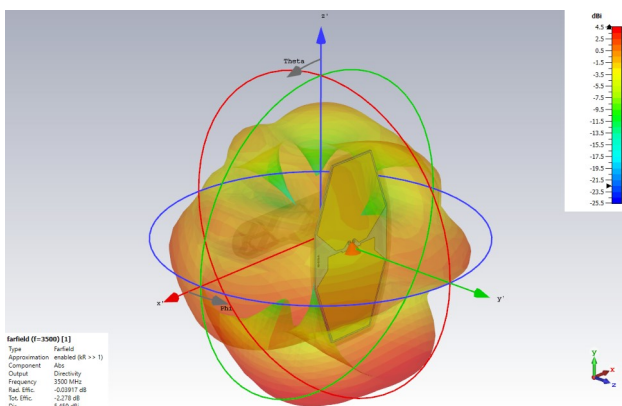
P/N: B20-005

Radiating patterns

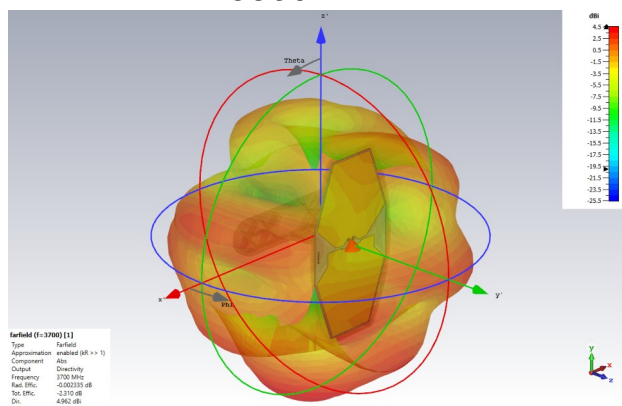
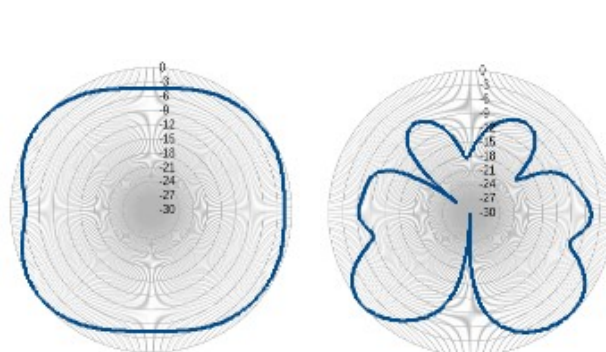
3D Radiating patterns

H-Plane

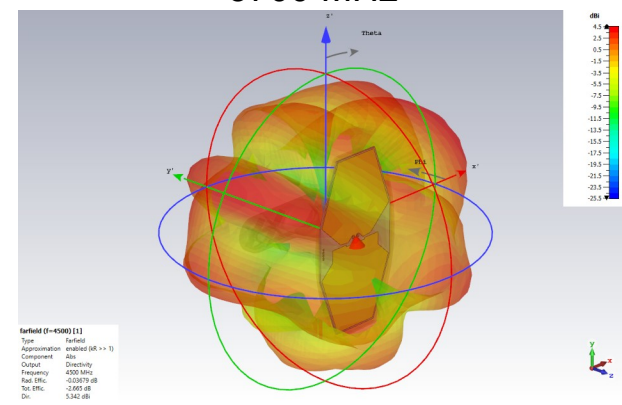
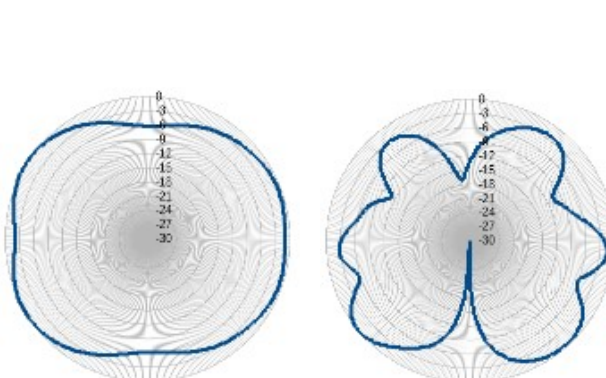
E-Plane



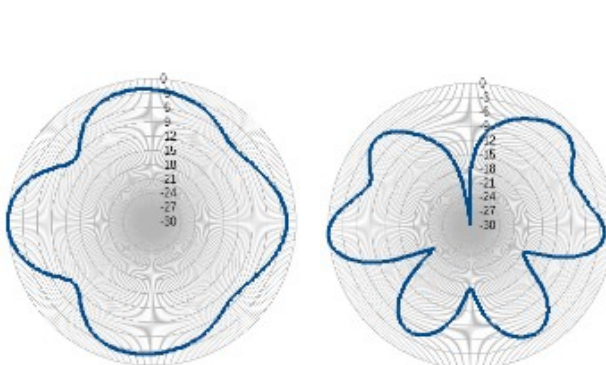
3500 MHz



3700 MHz



4500 MHz



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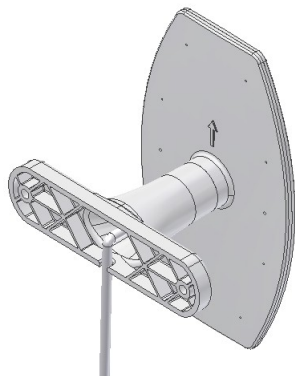
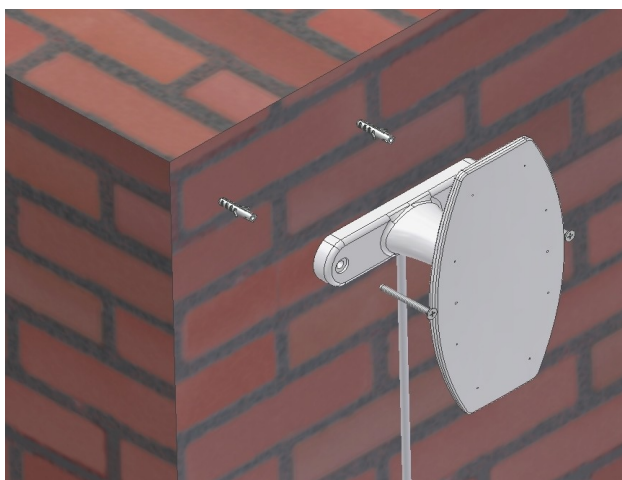


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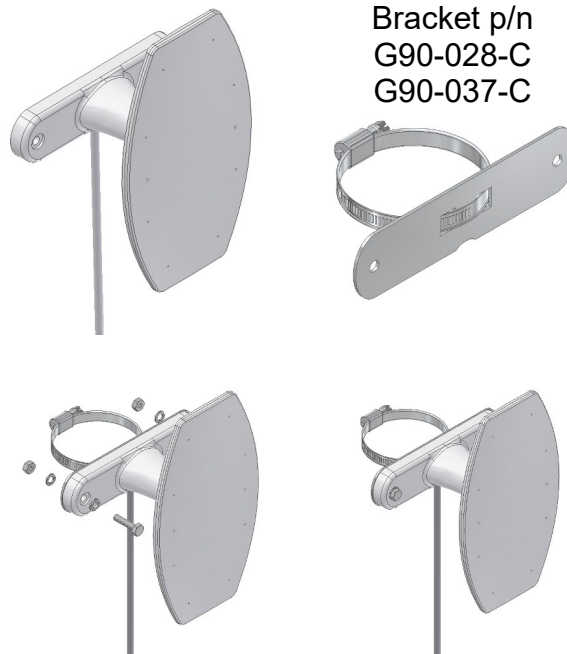
P/N: **B20-000**

P/N: **B20-005**

WALL MOUNTING

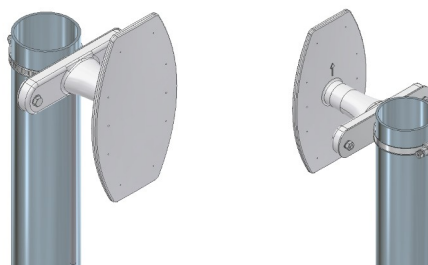
Please use two Ø5 mm Wall plugs for wall mounting.
Please make sure the cable rolls and that the antenna is installed with the arrow pointing upwards.

POLE MOUNTING
for poles Ø38/64 mm (1.5/2.5 inch.)
r Ø38/200 mm (1.5/80 inch.)
(bracket available on request)



Bracket p/n
G90-028-C
G90-037-C

Please fasten the bracket kit to the antenna using the provided screws and nuts.



Please secure the band to the pole making sure the antenna is positioned a few centimetres from the pole's top, with the arrow pointing upwards.

ITS NAME:

Ponal is a strong summer wind blowing mornings and evenings from Ledro valley through the bed of the Ponale creek, to which it owes its name.

ANT S.r.l. si riserva di apportare modifiche e miglioramenti in qualsiasi momento senza obbligo di preavviso
ANT S.r.l. reserves the right to change or improve this documentation at all times and without notice.