

Part No 02674

Discone Base Station Antenna

NATO STOCK # 5985-66-157-5307

The 02674 is a receive Antenna, for use across the 65-1300MHz Radio Band. It can also be used as a transmit antenna in selected bands, as outlined in the table below. It is manufactured with removable Stainless Steel radials, making it suitable to applications where rapid deployment is required. It can also be used satisfactorily for permanent installation. Heavy Duty stainless steel construction will lead to long term reliable service by this antenna.

Applications

Broad band Transmit and Receive applications.
Coverage of numerous Military & commercial frequency bands.

Tuning

Factory tuned, no further tuning required

Features

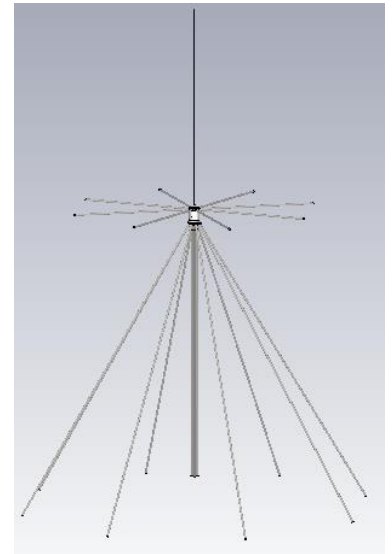
- ✓ Wide bandwidth.
- ✓ Rugged construction
- ✓ Removable Radiating elements.

Optional Mountings

- 02811S** Stainless Steel V Blocks clamp
- 02812** R/A Bracket Heavy Duty clamp
- 02813** Parallel Bracket Heavy Duty clamp
- 02815** Universal Bracket Heavy Duty S/Steel.
- 028181** Mueller Clamp (small)
- 028182** Mueller Clamp (large)

Specifications

Frequency range:	65-1300MHz.
Gain:	See Table page 2.
VSWR:	3.0:1 85-1300 MHz. See table
Impedance:	50 Ohms nominal
Power Rating:	240 Watts Average power
Polarisation:	Vertical
Radiation:	Omnidirectional
Cable:	RG213
Termination:	N female
Mounting tube:	Diam - 42mm length - 400mm
Base Materials:	Delrin hub, Stainless Steel radials and mounting tube.
Antenna Length:	2.087 Metres – includes whip top.
Antenna width:	1.133 Metres Across cone base.
Antenna Net Weight:	4.1 kg
Wind load @ 160 KPH:	(0.02748 SQM) 30.33KG/297.44 N



SPECIAL NOTE: It is common within the industry to rate discones across bandwidths in excess of the actual limitations of the radiation patterns. Although broad band in nature, discones do have some limitations.

The 02674 antenna will afford a quarter wave pattern at 65 MHz but with a substantial reduction in gain. The radiation patterns of this type of discone will also change at the higher end of the band. At 1300MHz the antenna will offer low angle radiation with severe multiple lobes, this is equivalent to low gain on and above the horizon. For optimum performance across the band 65-1300MHz, it is recommended that the band required be covered with three separate antennas in our range, **02210**, **02590**, & **02677**.

Packaging

Cardboard Tube: 1550(L) x 80(Dia) mm, 1 antenna per tube, Gross Weight: 4.4 kg

Warranty

3 years (Please refer to [Benelec Terms & Conditions](#))

	^Gain (dBd)	Tuned Bandwidth	Operating VSWR	Vertical Beamwidth	Horizontal Beamwidth
60 MHz	*-1.00	85-230 MHz	2.0:1 Max	85 deg	Omni
140MHz	*0.00	230-360 MHz	2.5:1 Max	85 deg	Omni
260 MHz	*-3.00	360-420 MHz	3.0:1 Max	60 deg	Omni
360 MHz	*-3.00	420-1170 MHz	2.0:1 Max	See Pattern	Omni
560 MHz	*-10.00	1170-1300 MHz	2.5:1 Max	See Pattern	Omni
800 MHz	*-9.00			See Pattern	Omni
1000 MHz	*-11.00			See Pattern	Omni
1300 MHz	*-15.00			See Pattern	Omni

* Gain is measured on the horizon, for further detail see relevant radiation patterns

