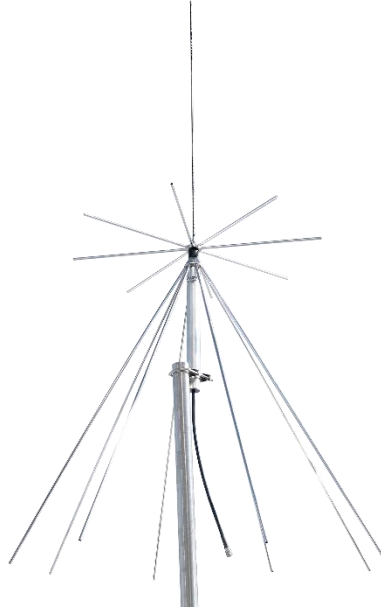


DATASHEET

SKU: 02674

Benelec Discone Broadband Antenna 8x8 Elements 65-1300MHz (NATO STOCK # 5985-66-157-5307)



The 02674 is a receive Antenna, for use across the 65 – 1300 MHz 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

Please refer to our website for all 16mm Mountings and optional Coaxial Adaptors

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**.

SPECIFICATIONS

Frequency Range	65 – 1300 MHz
Gain	See table on Page 2
VSWR	3.0:1 85 – 1300 MHz. See Table
Impedance	50 Ω Nominal
Power Rating	240 Watts Average Power
Polarisation	Vertical
Radiation	Omnidirectional
Cable	RG213
Termination	N Female
Mounting Tube	Diam – 42 mm Length – 400 mm
Base Materials	Delrin Hub, Stainless Steel radials and mounting tubes
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) 30.33 KG / 297.44 N

PACKAGING

Cardboard Tube: 1550 (L) x 80 (Dia) mm, 1 antenna per tube, G.W.: 4.4 kg

WARRANTY

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

Website: benelec.au

	^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				Omni

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

