

# Heavy Duty Dipole Antennas

## VHF Mid-band FM radio 87.5—108 MHz

- ★ The HD100 is a rugged centre-fed broadband,  $\lambda/2$  (half)-wave antenna.
- ★ This antenna can be stacked and fed with a matching phasing harness for increased gain.
- ★ Metal parts DC grounded.



### Electrical Data

Sales code	HD100	
Article number	A10AA1625A	A10AA1687A
Frequency	87.5—108 MHz	
Average gain	0 dBd	
Nominal gain	2 dBd (on support pipe)	
VSWR	$\leq 1.5: 1$	
Polarisation	Vertical	
H-plane	3 dB beam width 194°	
E-plane	3 dB beam width 78°	
Rated power	500 W	
Impedance	50 $\Omega$	
Termination	N-type female	DIN 7/16 female
Surge protection	All metal parts are directly grounded.	

### Mechanical Data

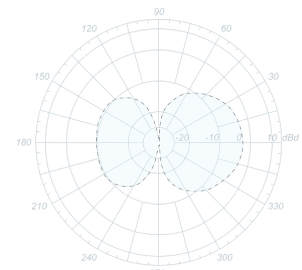
Wind velocity	$\leq 200$ km/h
Wind load @ 144 km/h	20.5 kg
Flat plate area	0.19 m <sup>2</sup>
Material	Hot dipped galvanised steel. Brass and aluminium inners.
Mounting	Mount to a $\varnothing 25$ —76 mm support pipe with integral clamps.
Antenna length	H 1.4 m
Parcel dimensions	9 kg / 140 cm x 95 cm (T-shape) x 10 cm

If you would like to stack multiple antennas in an array formation, you need to add the following additional jumper cables to your order:

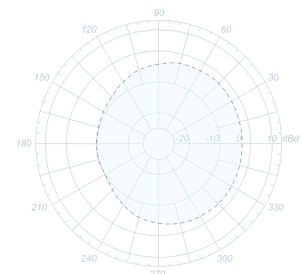
- 2 STACK = 2 off 2.5m (part number CXJMPS2500)
- 4 STACK = 4 off 5m (part number CXJMPS5000)

#### Notes:

The horizontal radiation pattern is omnidirectional. Vertical polarisation. Normalised scale - not amplification (gain).



Typical vertical pattern



Typical horizontal pattern

