

Section 1

BASE STATION ANTENNAS

Updated 14 February 2011

CL3642 Coaxial Dipoles

Frequency
35 – 42 MHz

Bandwidth
Any 1 %



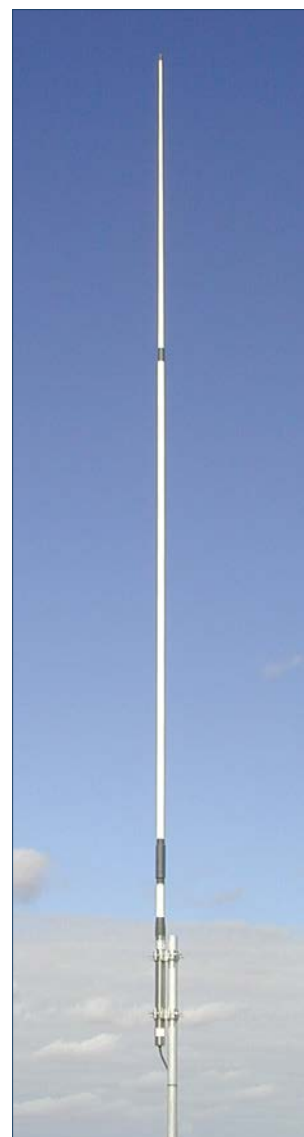
Manufactured to full commercial standard, these CL3642 omnidirectional coaxial dipole base station antennas can be tuned to cover any 1% bandwidth you require within the frequency range 35 to 42 MHz at better than 1.5:1 VSWR.

Standing 5 metres tall, the dipoles feature a high quality white fibreglass radome and stainless steel mount tube. The 1 metre RG213 cable tail is fitted with an N-Female connector rated for up to 50 watts input power.

CL3642R is an even more robust model with a thicker “**ruggedised**” radome and larger stainless steel mount tube purpose built to survive the most extreme weather conditions such as those found in coastal, alpine and arctic regions.

Mast mounting clamps, coaxial feeder cable, connectors and all other accessories you require are available from ZCG Scalar.

SPECIFICATIONS	CL3642	CL3642R
Construction	Fibreglass radome and stainless steel mount tube	Ruggedised fibreglass radome and stainless steel mount tube
Frequency Range	Suitable for use in the frequency range 35 to 42 MHz	
Maximum Bandwidth	Any 1 %	Any 1 %
	<i>Specify your Transmit and Receive frequencies in writing when ordering</i>	
Return Loss, VSWR	Better than -15 dB, < 1.5:1 across the 1% bandwidth specified	
Tuning	Factory	Factory
Gain	0 dBd	0 dBd
Maximum Power	50 Watts	50 Watts
Impedance (Nom.)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
H Plane	Both models are 360° omnidirectional, ± 0.5 dBd	
Cable Tail	1 metre RG213	1 metre RG213
Connector	N-Female fitted	N-Female fitted
Height	5 metres	5 metres
Weight	4.0 kg	6.5 kg
Projected Area	0.142 m ²	0.190 m ²
Wind Load at 160 kph	19.5 kg	24.1 kg
Stainless Steel Mount Tube Dimensions	32 mm diameter x 500 mm long	48 mm diameter x 600 mm long
Mast Mount Clamps recommended	2 x UAM180L	2 x UAM180L



UAM180L clamps are recommended for mounting these coaxial dipole antennas to a round mast between 40 mm and 75 mm in diameter. These clamps are galvanised steel designed for heavy duty service.

For larger diameter masts up to 115 mm, **UAM180UNI** and **UAM180UNIL** parallel clamps are available.