



B55AL

VHF Scaled tunable aluminium monocone antenna

VHF Air band Communications 118-137 MHz



The B55AL monocone is an economical and cost effective monocone for airport to aircraft communications. Using the lower section of the Air Band for transmit, the sliding radials can be easily field tuned to receive a specific airport channel within 118-137 MHz.

Please note: the units radials are supplied disassembled for reduced courier cost, assembly on-site is required.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

Construction	Grey PVC radome, aluminium radials, anodised aluminium mount section and external cable
Frequency	118-137 MHz - VHF Air Band
Bandwidth	Specify centre frequency and 8 MHz bandwidth
VSWR	<1.6:1
Tuning	Factory - radials can be field tuned if required
Gain	0 dBd - unity
Maximum power	200 Watts
Impedance - nominal	50 Ohms
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
E plane - Vertical	74°
Cable & connector	N-type female fitted to 1.0 metres RG213 - bottom exit
Height	1.5 metres
Radial width	1.3 metres overall - 650mm each side
Weight	3.1kg
Projected area	0.067m ²
Wind load at 160kph	0.149kN, 15.25kg
Mount section	38mm x 300mm - anodised aluminium
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS Side/wall mount: 2 x NSM-218
Installation tools required	10mm spanner for radial U-bolt securing. Adjustable spanner for mount bracket securing. Amalgamation butyl rubber tape and PVC tape for connector sealing



Adjustable ground plan radials



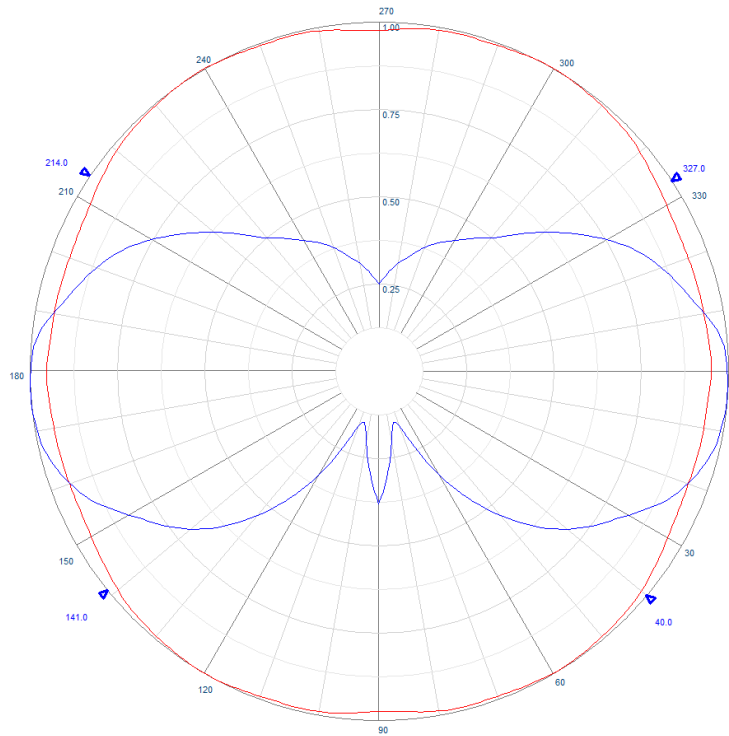
N-type female connector fitted to cable



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Example radiation pattern

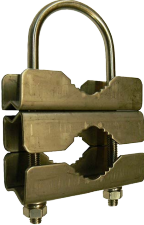


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Suitable mounting hardware



SKU: EB1-SS
2 units recommended
 304 stainless steel parallel clamp
 Boom: 20-40mm capability
 Mount pole: 25-45mm capability



SKU: UB3-SS
 304 stainless steel parallel clamp
 Boom: 20-32mm capability
 Mount pole: 20-50mm capability



SKU: RB8
2 units recommended
 Galvanised steel right-angle clamp
 Boom: 20-50mm capability
 Mount pole: 20-50mm capability



SKU: UB2-SS
 304 stainless steel right-angle clamp
 Boom: 20-50mm capability
 Mount pole: 20-50mm capability



SKU: NSM-218
2 units recommended
 Toughened nylon wall/side clamp mount
 38mm capability



NBS Masts & Accessories
 - Aluminium telescopic masts
 - Tilt-over masts
 - Lattice section masts
[Contact us for more info.](#)

Suitable feeder coaxial cable and connectors



SKU: 7890
 RU400 Solid copper conductor, low loss coaxial cable
 CNT-400 / LMR-400™ equivalent
 (™ times microwave)
 Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



SKU: NM-8226
 N-type male crimp connector for RU400 low loss, solid conductor
 Tri-metal plated



SKU: ZCG1250SF
 1/2" super flexible helical shielded, foam dielectric coaxial cable
 Available in per metre, 500m roll or alternatively request a custom cable assembly



SKU: NM1250SF
 N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable
 Tri-metal plated



SKU: ZCG1250
 1/2" corrugated shielding, foam dielectric coaxial cable
SKU: ZCG1250-A Air-dielectric
 Available in per metre, 500m roll or alternatively request a custom cable assembly



SKU: NM1250
 N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable
 Tri-metal plated