



## B14 and B18 Omni-directional coaxial dipoles Airband 118-137MHz



The B14 and B18 omni-directional coaxial dipoles are effective and economical Air Band 118-137MHz antenna solution. Suitable for narrow airport channel communications such as at regional airports or for channel specific communications.

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

	B14	B18
Construction	White fibreglass radome, 304 stainless steel mount section	
Frequency range	Airband 118-137MHz	
Maximum bandwidth	Specify any 3% or Transmit and Recieve when ordering	
VSWR	<1.5:1 across specified bandwidth	
Tuning	Factory	
Gain	0dBd	
Maximum power	100 Watts	
Impedance - nominal	50 Ohms	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omni-directional, ± 0.5dB	
E Plane	46°	
Connector	N-type female in base of mount section	
Height at 118MHz	3 metres, at higher frequencies height will reduce	
Weight	1.0kg	1.9kg
Projected area	0.063m <sup>2</sup>	
Wind load at 160kph	7.674kg, 0.075kN	
Mount section	500mm x 30mm	
Mounting requirements	At 118MHz, minimum 2 metre distance from any vertical structure to ensure stated performance levels	
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS	



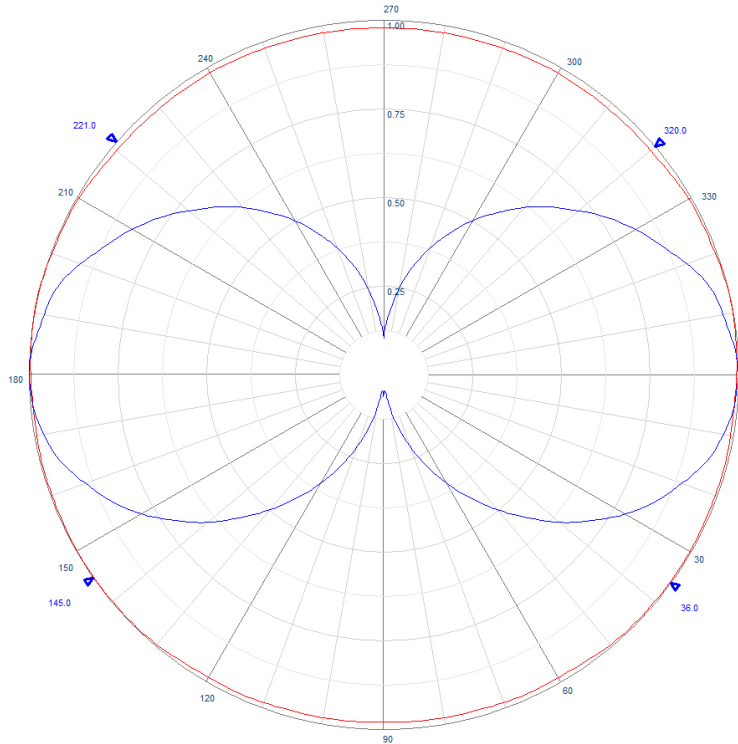
N-type female in base of mount section.



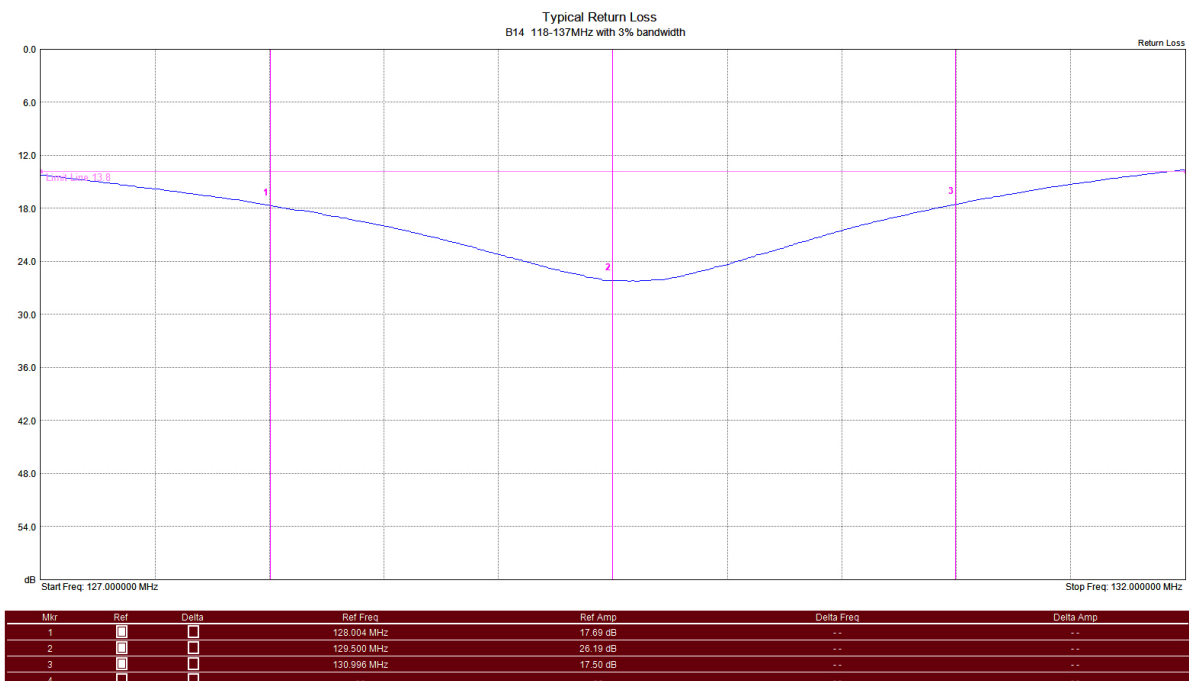
## B14 and B18

### Omni-directional coaxial dipoles

#### Airband 118-137MHz



Example radiation pattern



Typical Return Loss



## B14 and B18

### Omni-directional coaxial dipoles

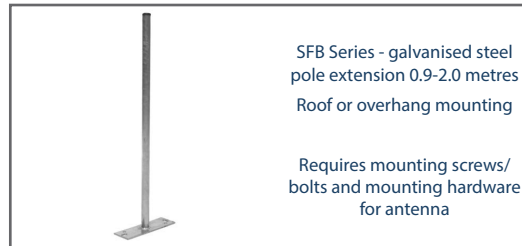
#### Airband 118-137MHz

#### Suitable mounting hardware



CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires mounting screws/ bolts and mounting hardware for antenna

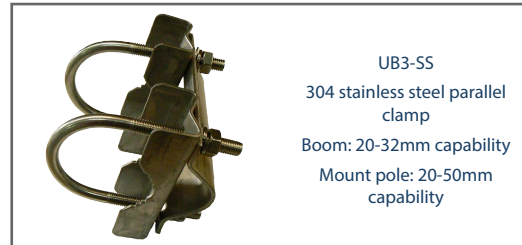


SFB Series - galvanised steel pole extension 0.9-2.0 metres  
Roof or overhang mounting

Requires mounting screws/ bolts and mounting hardware for antenna



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



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



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



RB8  
Galvanised steel right-angle clamp  
Boom: 20-50mm capability  
Mount pole: 20-50mm capability

#### Suitable feeder coaxial cable and connectors



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



N-type male crimp connector for RU400 low loss, solid conductor  
P/N 8226  
Tri-metal plated



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



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



1/2" corrugated shielding, foam dielectric coaxial cable  
P/N ZCG1250  
Available in per metre, 500m roll or alternatively request a custom cable assembly



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