



B16

Omni-directional mast mount coaxial dipole UHF / TE.T.RA / Land Mobile Radio 400-520 MHz



The B16 coaxial dipole provides an economical fixed position antenna solution with no compromise in either quality of construction or performance. It is ideal for omnidirectional low power transmit and receive applications up to 100 Watts.

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

Construction	White fibreglass radome, anodised aluminium mount section and external termination
Frequency range	400-520 MHz - UHF, LMR, TETRA compatible
Maximum bandwidth	Specify any 3% on order
VSWR	<1.5:1 across specified bandwidth
Tuning	Factory
Gain	0 dBd - unity
Maximum power	100 Watts
Impedance - nominal	50 Ohms
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omni-directional
E Plane	66°
Connector	N-type female in base of mount section
Height at lowest frequency	1.5 metres - height will decrease at higher frequencies
Weight	1.5kg
Projected area	0.035m ²
Wind load at 160kph	3.5kg, 0.035kN
Mount section	500mm x 25mm - 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
Mounting position recommended	Mount as high as possible on your structure, mast or tower using the appropriate mounting clamp/s

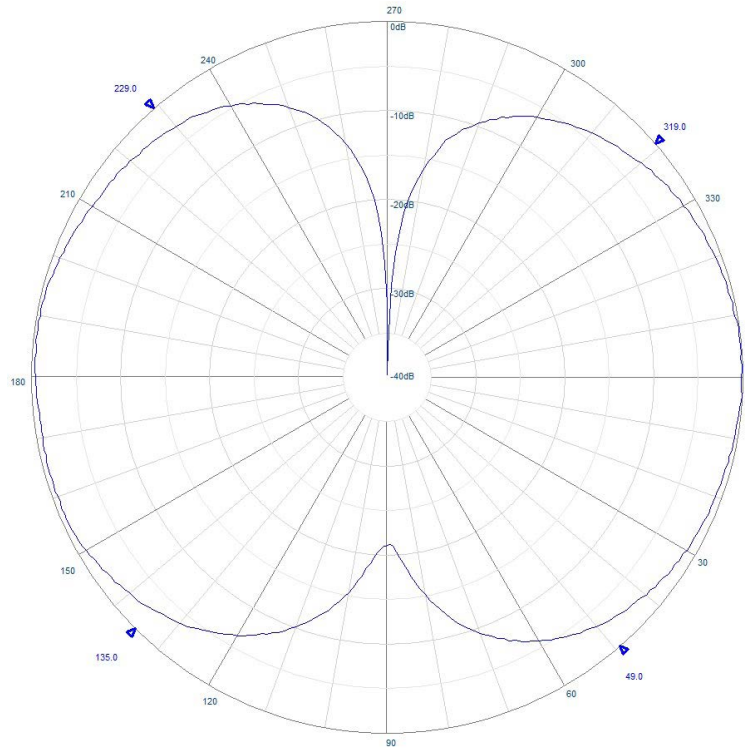


N-type female in base of mount section

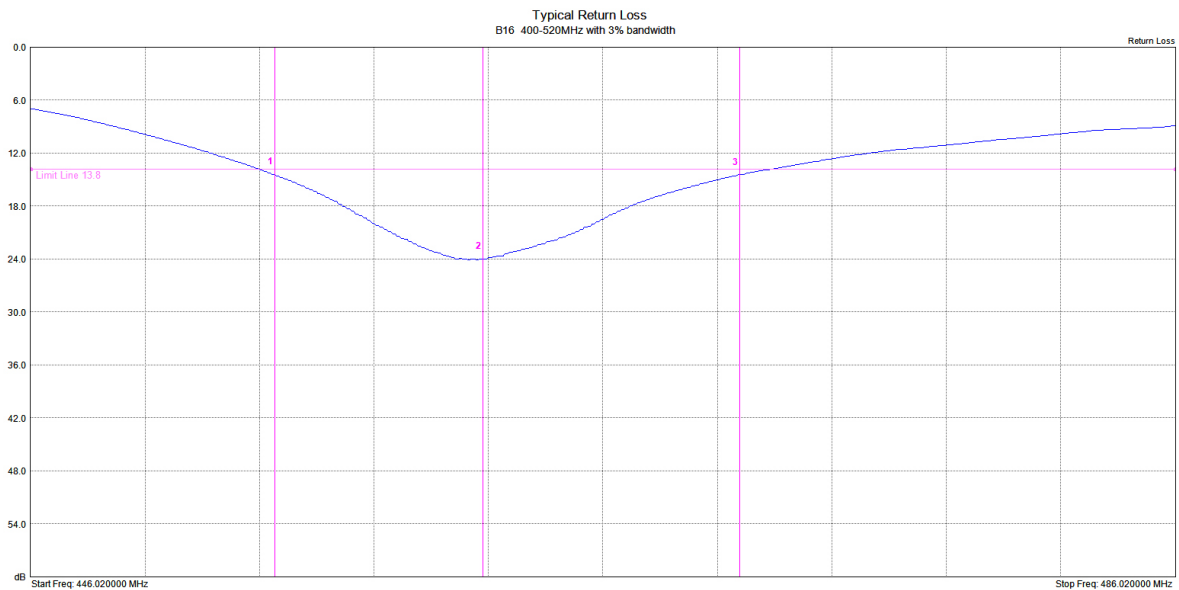


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Example radiation pattern



Mix	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	454.536 MHz	14.42 dB	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	461.828 MHz	23.99 dB	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	470.797 MHz	14.46 dB	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical Return Loss - Scaled frequency





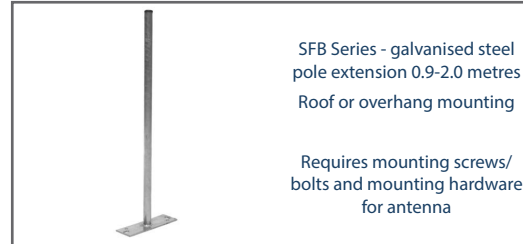
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CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires mounting screws/ bolts and mounting hardware for antenna

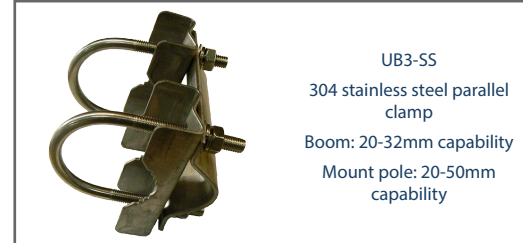


SFB Series - galvanised steel pole extension 0.9-2.0 metres
Roof or overhang mounting

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



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



UB2-SS
304 stainless 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 rolls 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



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