



## B65 Series Sidemount Dipoles

Flange or mast mount sidemount dipoles

UHF 600-820 MHz



These sidemount dipoles provide genuine broadband coverage in the UHF frequency range 600 to 820 MHz. Traditionally folded dipoles are mounted so as to use the mast or tower as a reflector. Pattern formation and gain can be varied by altering dipole to mast spacing, or by mounting in stack array formations.

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

SKU	B65-AL	B65-SS	B65F
Construction	Fully-welded aluminium dipole and frame	Fully-welded 304 grade stainless steel dipole and frame	Fully-welded 304 grade stainless steel component and PVC flange mount
Frequency range	600-820 MHz - UHF		
Bandwidth	Full frequency range stated above - 220 MHz		
Tuning	Factory		
VSWR	<1.5:1		
Gain	0 dBd for a single bay, stacking increases gain		
Maximum power	25 Watts		
Impedance - nominal	50 Ohms		
E and H Plane	Varies according to the mounting arrangement		
Polarisation	Mount horizontal or vertical as required		
DC grounding	Yes		
Cable	600mm RG58A/U stranded core - bottom exits mount section		
Connector	N-type female fitted as standard or specify requirements		
Dipole height	190mm		
Stand-off	25mm x 300mm		
Weight	400grams	420grams	430grams
Wind load at 160kph	1.103kg, 0.011kN		
Mounting B65 order separate	Parallel: 1 x EB1-SS or 1 x UB3-SS Right-angle 1 x RB8/RB8-L 1 x UB2-SS		
Mounting B65F	PVC flange fitted to base, mount using 2 screws or bolts		
Mounting position recommended	Mount as high as possible on your structure, mast or tower using the appropriate bracket or flange mount		
Installation tools required	Adjustable spanners for mounting clamp attachment. Self-amalgamating butyl rubber tape and uPVC electrical tape for termination sealing.		



B65SS and cable exit from base



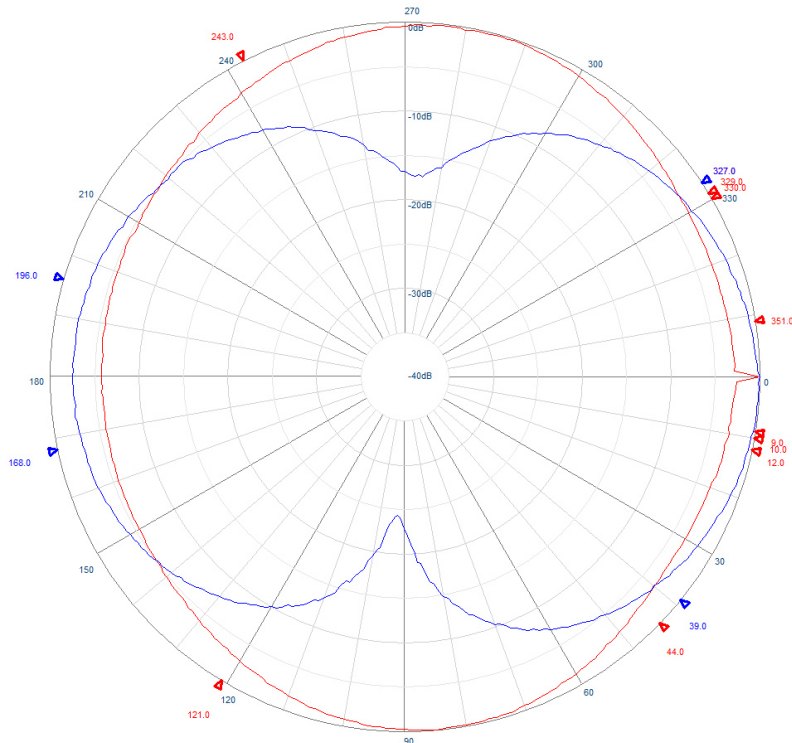
B65F with flange mount and cable exit from base and side of flange mount



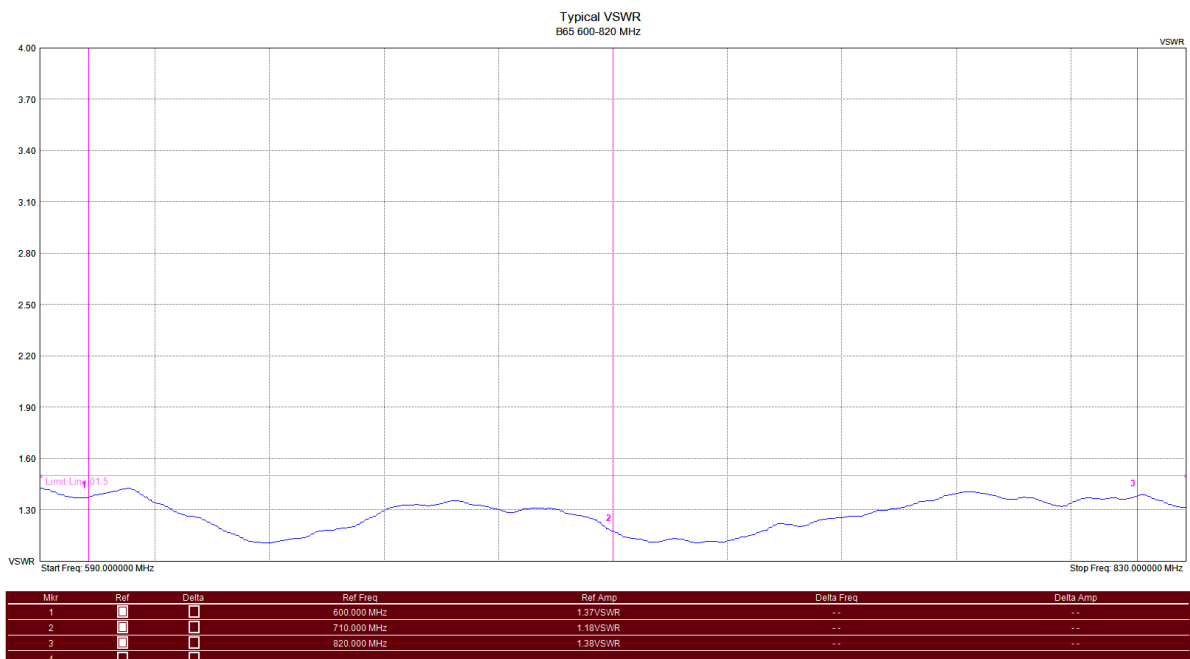
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Example radiation pattern



Typical VSWR





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### Mechanical Data

Height of array	Subject to configuration
Total net weight	Refer to table
Wind Load	Refer to table
Mounting hardware	One clamp per dipole - order separate

### Technical Data

Configuration	Off-set	Gain - dBd	Weight - kg	Antenna height L - m	Wind load - kN
1 dipole	0.9 λ	0	0.42 / 0.43	0.19	0.011
2 dipoles		3.0	0.84 / 0.86	0.57	0.022
4 dipoles		7.5	1.68 / 1.72	1.33	0.044
6 dipoles		9.8	2.52 / 2.58	2.09	0.066
8 dipoles		11.0	3.36 / 3.44	2.85	0.088

- Gain: referred to half wave dipole, losses of power through cable or power dividers not included
- Weight: does not include mounting hardware, power dividers/phasing harness, brach feeder coaxial cables or mount poles
- Wind load: V = 160km/h
- Height: calculated at centre frequency of frequency range, alterations should be account for when using alternate frequencies




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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: CFB\*\*\*\* series**  
Galvanised steel 'J' hockey stick brackets, 1.1 - 2.7 metres.  
  
Requires mounting screws/bolts and mounting hardware for antenna



**SKU: SFB900**  
Galvanised steel pole extension 900mm  
Available up to 2.0 metres  
Roof or overhang mounting  
Requires mounting screws/bolts and mounting hardware for antenna



NBS Anodised aluminium telescopic masts  
2 to 6 sections  
3-16 metre extended  
Quick-install mounts available  
[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 rolls 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: 7890-3**  
RU600 Solid copper conductor, low loss coaxial cable  
LMR-600™ equivalent  
(\*\* times microwave)  
Available in 500m roll or alternatively request a custom cable assembly



**SKU: NM-8226-2**  
N-type male crimp connector for RU600 low loss, solid conductor  
  
Tri-metal plated