



Industry standard medium powered sidemount dipoles FM Radio 87.5-108 MHz



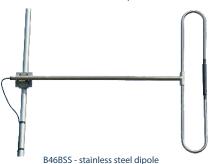
Sidemount dipoles are an ideal choice for use as an FM radio broadcast antenna. They are of reliable construction, cover a broad bandwidth and permit single antenna sharing with multiple FM transmit frequencies.

Popular with community and commercial radio stations in a low powered array configuration or as a singular backup transmit antenna for shutdown of main systems for maintenance or upgrades.

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

	B46B	B46BSS	B46BHPSS*		
Construction	Aluminium	grade stainless steel			
Frequency range	87.5-108 MHz - FM Radio				
Bandwidth	Full frequency range	e stated - 20.5 MHz	Specify 10 MHz		
Tuning	Factory				
VSWR	<1.3	3:1	<1.2:1 at specified 10MHz		
Gain	0 dBd for a single bay, stacking increases gain				
Polarisation	Vertical				
Impedance	50 Ohms				
Cable	1.5 metres RG213		1.5 metres 1/2" super flexible		
Connector - fitted	N-type female		7/16" DIN female		
Maximum power	500 Watts per bay		2 Kilowatts per bay		
DC grounding	Yes				
Dipole height	1.4 metres				
Weight	3.5kg	5.0kg			
Projected area	0.090m²				
Mount section	Length: 1.5m Dia: 40mmø	Length: 1.5m Dia: 38mmø	Length: 1.5m Dia: 38mmø		
Wind load at 160kph	10.875kg, 0.107kN				
Mounting hardware order separate	1 x Y2300	1 x Y2300-SS			
Installation tools required	8mm spanner for dipole to mount section				
Warranty	2 Years				







N-type female fitted as standard or specify requirements - B46B & B46BSS





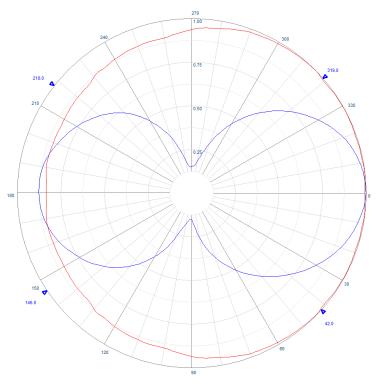
7/16" DIN female fitted as standard or specify requirements - B46BHP-SS



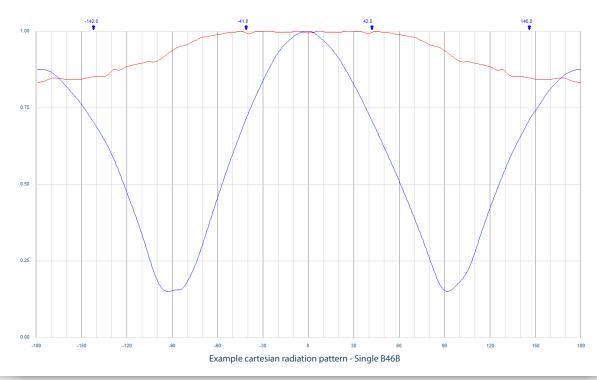












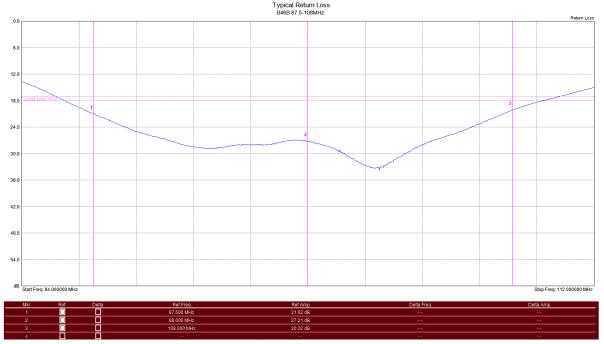




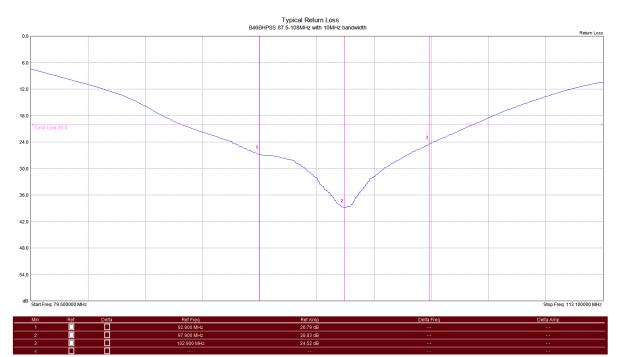








Typical return loss - B46B / B46BSS



Typical return loss - B46BHP-SS







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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	3.5 / 5.0	1.4	0.107
2 dipoles		3.0	7.1 / 10.1	4.15	0.214
4 dipoles	۸9.0	7.5	14.3 / 20.5	9.65	0.428
6 dipoles		9.8	21.5 / 30.7	15.15	0.642
8 dipoles		11.0	28.9 / 41.2	20.65	0.856

- $\hbox{-} \ {\sf Gain:} \ {\sf referred} \ {\sf to} \ {\sf half} \ {\sf wave} \ {\sf dipole,} \ {\sf losses} \ {\sf of} \ {\sf power} \ {\sf through} \ {\sf cable} \ {\sf or} \ {\sf power} \ {\sf dividers} \ {\sf not} \ {\sf included}$
- $\mbox{\sc Gain:}$ gain figures calculated utilising a rear mounting pole behind dipole/s.
- Weight: does not include mounting hardware, power dividers or mount poles
- $Height \ calculated \ at \ spacing \ for \ 87.5 \ MHz, please \ check \ handbook \ for \ calculated \ frequency \ specific \ spacing.$
- Wind load: V = 160km/h

Array requirements





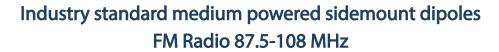
Custom cable branch feeders

Length and termination
determined by model and
power divider spec.

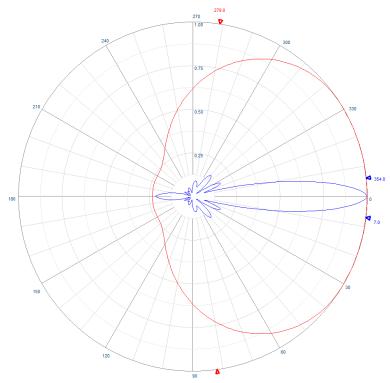
See following page for cable type recommended



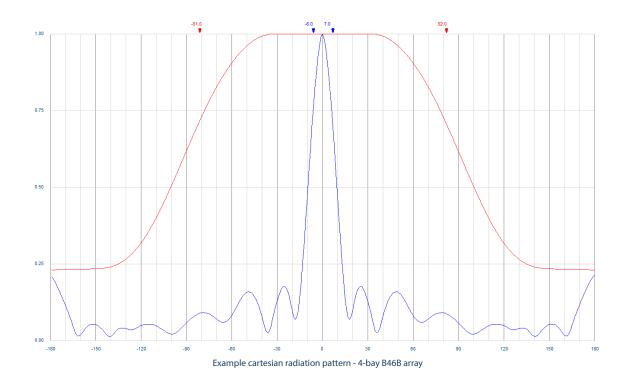
















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Suitable mounting hardware



SKU: Y2300

Galvanised steel right-angle round boom Yagi clamp

SKU: Y2300SS - stainless steel

Boom: 30-50mm capability Mount pole: 30-50mm capability



SKU: Y2300-XL

Galvanised steel extra large right-angle round boom Yagi clamp

SKU: Y2300SS-XL - stainless steel

Boom: 32-50mm capability Mount pole: 50-90mm capability



SKU: Y2300-I

Galvanised steel large rightangle round boom Yagi clamp

SKU: Y2300SS-L - stainless steel

Boom: 32-50mm capability Mount pole: 40-75mm capability



SKU: C-125

Galvanised steel extra large right-angle round boom Yagi clamp

Boom: 32-50mm capability Mount pole: 100-125mm capability

Suitable feeder coaxial cable and connectors



SKU: ZCG1250

1/2" corrugated shielding, foam dielectric coaxial cable SKU: ZCG1250SF - helical super flex

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 SKU: NM1250SF - super flex



SKU: 716DINM1250

7/16" DIN male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable

Tri-metal plated SKU: 716DINM1250SF - super flex



SKU: ZCG7850

7/8" corrugated shielding, foam dielectric coaxial cable SKU: ZCG7850-A - Air-dielectric Available in per metre, 500m

Available in per metre, 500m roll or alternatively request a custom cable assembly



SKU: NM7850

N-type male clamp connector for 7/8" flexible, corrugated shielded, coaxial cable

Tri-metal plated



SKU: 716DINM7850

7/16" DIN male clamp connector for 7/8" flexible, corrugated shielded, coaxial cable

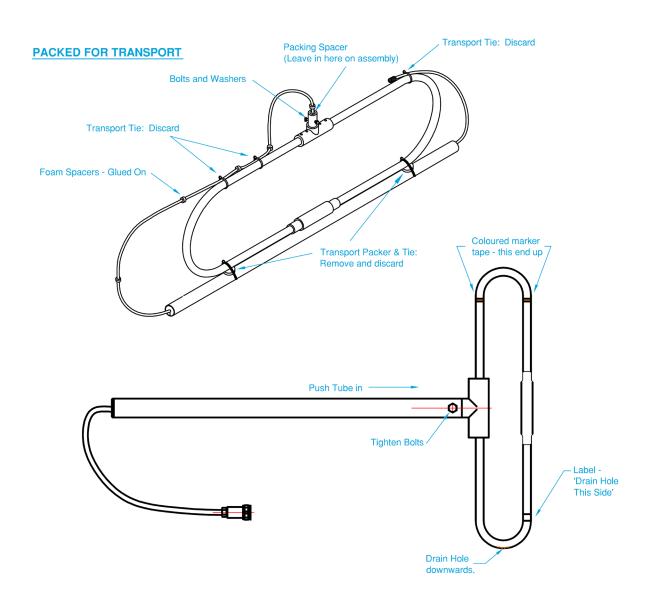
Tri-metal plated





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TO ASSEMBLE ANTENNA:

Remove and discard packing as shown above.

Hold Connector and carefully pull Cable through Mounting Tube, fitting each Spacer on Cable into Tube.

Push Mounting Tube fully home into in Dipole Frame Tee-piece and bolt home tight

For vertical mountimg, make sure Drain Hole is downwards..

