



## RA4-60D-PIM

### Low P.I.M. directional 60° corner reflector antenna

### UHF 400-520 MHz



When you require high gain combined with a high front-to-back ratio and a heavy-duty construction, the RA4-60D corner reflector is suitable over a standard RA4 corner reflector.

The RA4-60D is simple to assemble with the dipole mounting position clearly indicated with a red adhesive band.

Filters and multicouplers, coaxial feeder cable, lightning protection and other installation accessories are all available separately.

Construction	Welded corrosion resistant 3-piece aluminium rear screen and removable aluminium dipole
Frequency range	400-520 MHz - UHF, TETRA and LMR compatible
Bandwidth	Specify any 20 MHz within band when ordering
VSWR	<1.5:1 across specified bandwidth
Tuning	Factory
Gain	12-13 dB
Maximum power	100 Watts
Impedance - nominal	50 Ohms
DC grounding	Yes
Polarisation	Mount Horizontal or Vertical as required
Front-to-Back ratio	>20dB
Passive IM 3rd order (2x20w)	<-120dBc
Connector	N-type female jack in rear of dipole assembly
Reflector grid dimensions	Height: 600mm, Width: 800mm, Depth: 650mm, Arm Length: 700mm
Weight	8.0kg
Projected area	1.2m <sup>2</sup> - at 410MHz
Wind load at 160kph	2.3kN, 239kg
Mouting hardware supplied	2 x 304 stainless steel U-bolts 40-60mm capability
Mounting position recommended	Mount as high on your mast, tower or structure as possible using the supplied mounting hardware. Ensure no obstructions in face of rear screen.
Installation tools required	10mm and 13mm spanners for rear screen assembly and dipole securing

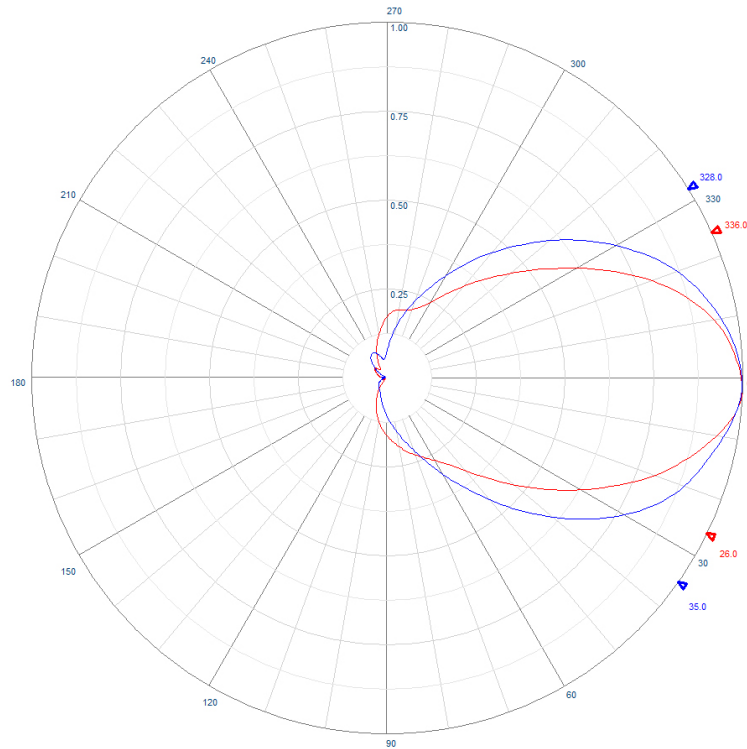


N-type female jack in rear of dipole assembly.

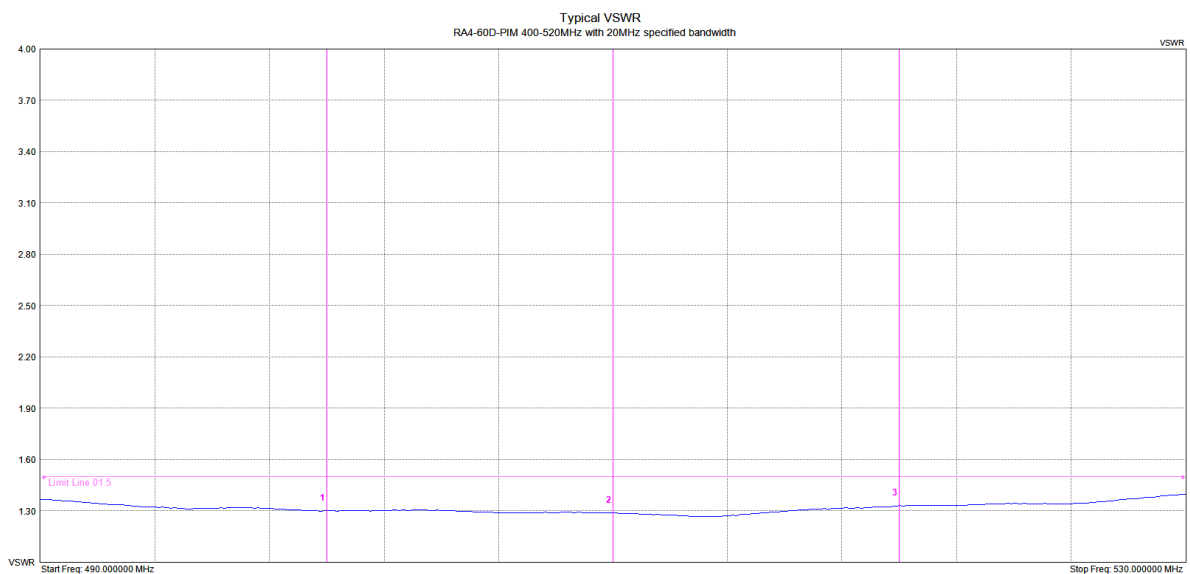


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Example radiation pattern



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	500.000 MHz	1.30 VSWR	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	510.000 MHz	1.29 VSWR	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	520.000 MHz	1.33 VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical VSWR





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Suitable feeder coaxial cable and connectors



**SKU: 7800**  
MIL-SPEC RG213 stranded copper conductor coaxial cable

Available in 100m or 300m rolls or alternatively request a custom cable assembly



**SKU: NM-7937**  
N-type male crimp connector for MIL-SPEC RG213 Tri-metal plated



**SKU: 7808**  
RG214/U stranded conductor, double braided coaxial cable

Available in 100m or 300m rolls or alternatively request a custom cable assembly



**SKU: NM-7937-2**  
N-type male crimp connector for RG214, double braid shielded coaxial cable Tri-metal plated



**SKU: 7890**  
RU400 low loss, solid copper core, foam dielectric cable

**SKU: 7890-2 RU400-UF Ultra flex.**  
Available in 100m, 300m or 500m (UF only) roll or alternatively request a custom cable assembly

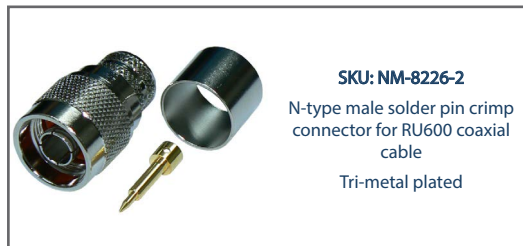


**SKU: NM-8226**  
N-type male solder pin crimp connector for RU400 / RU400-UF coaxial cable Tri-metal plated



**SKU: 7890-3**  
RU600 low loss, solid copper core, foam dielectric cable

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



**SKU: NM-8226-2**  
N-type male solder pin crimp connector for RU600 coaxial cable Tri-metal plated



**SKU: ZCG1250SF**  
1/2" helical shielded, foam dielectric coaxial cable

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



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



**SKU: ZCG1250**  
1/2" corrugated shielding, foam dielectric coaxial cable  
**Air dielectric. SKU: ZCG1250-A**  
Available in per metre (excl. Air) or 500m rolls 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