



CL3642 Series

Omni-directional mast mount coaxial dipoles

VHF 35-42MHz

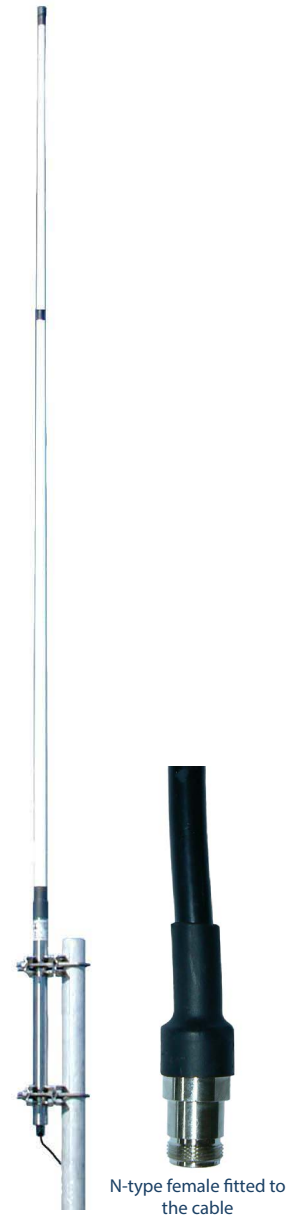


Manufactured to full commercial standard, these omnidirectional fixed position coaxial dipoles have a customer specified 1% bandwidth within the VHF frequency range 35-42MHz.

The CL3642R is an even more robust model with a thicker “ruggedised” radome and larger stainless steel mount tube, purpose built to survive the most extreme weather conditions.

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

	CL3642	CL3642R
Construction	White fibreglass radome and 304 stainless steel mount section	White ruggedised fibreglass radome and thick walled 304 stainless steel mount section
Frequency range	VHF 35-42MHz	
Maximum bandwidth	Specify 1% bandwidth or transmit and receive - on order	
VSWR	<1.5:1 across specified bandwidth	
Tuning	Factory	
Gain	0dBd	
Maximum power	50 Watts	
Impedance - nominal	50 Ohms	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omni-directional, ± 0.5dB	
Cable	1.0 metre RG213 - bottom exits from mount section	
Connector	N-type female fitted to as standard or specify requirements	
Height	5.0 metres	
Weight	4.0kg	6.5kg
Projected area	0.142m ²	0.190m ²
Wind load at 160kph	19.5kg	24.1kg
Mount section	500mm x 32mm	600mm x 48mm
Mounting hardware order separate	2 x UAM180L parallel 2 x UAM90L right-angle 2 x NSM-CL3642	2 x UAM180L parallel 2 x UAM90L right-angle



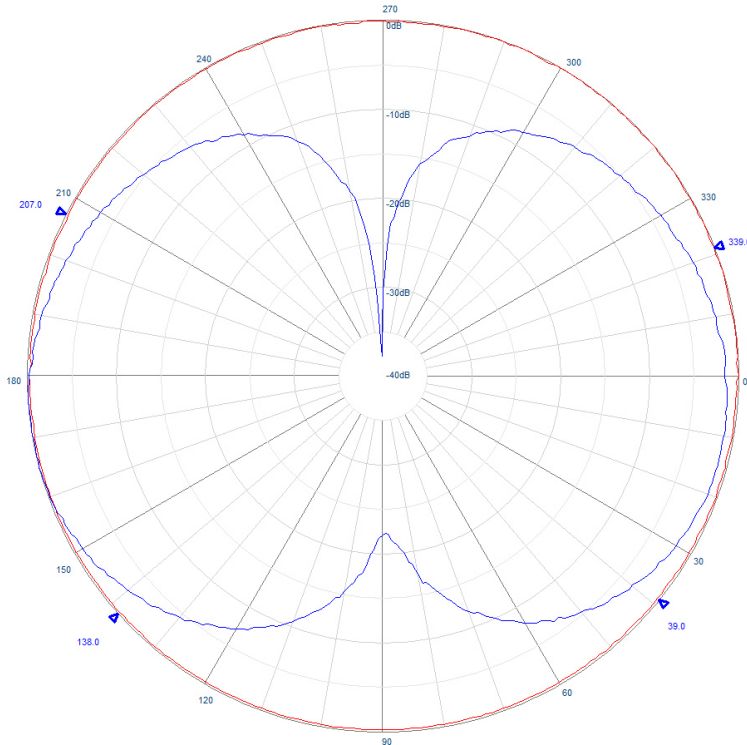
N-type female fitted to the cable



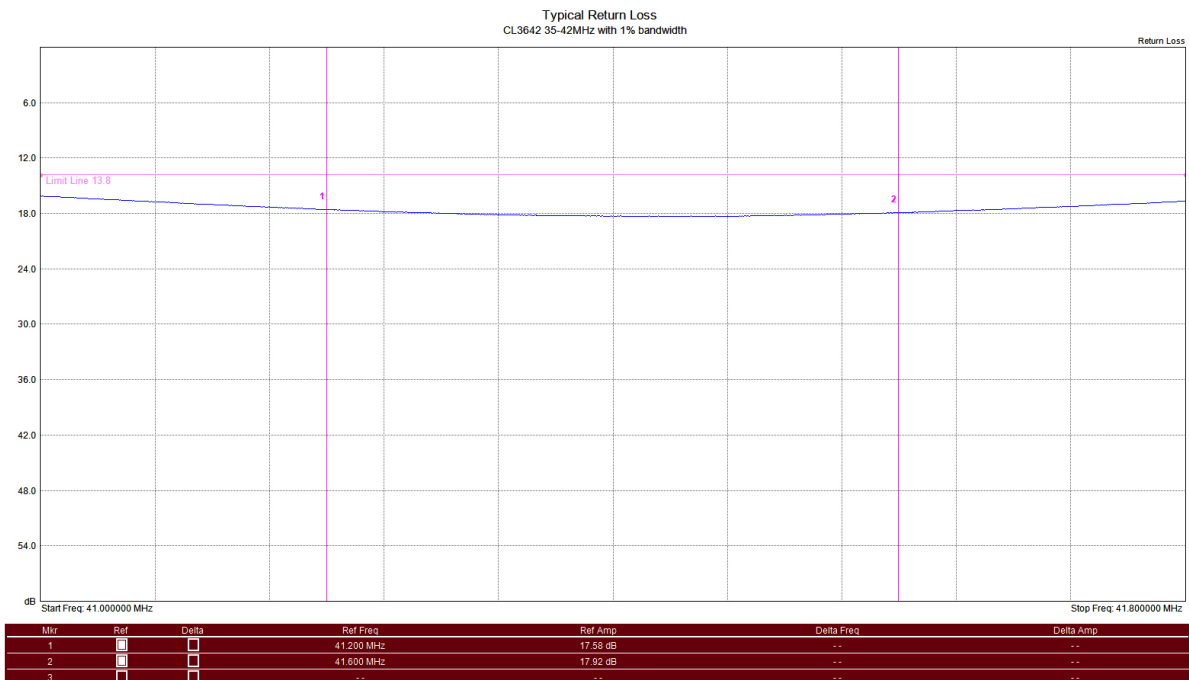
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Example radiation pattern



Typical Return Loss

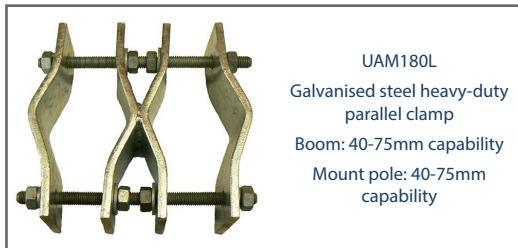


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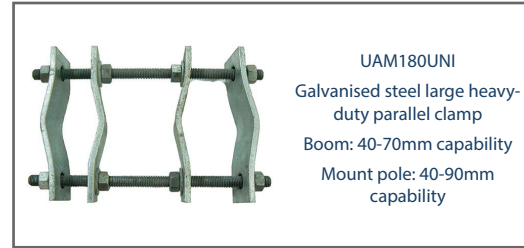
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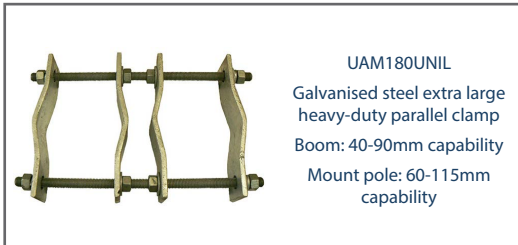
Suitable mounting hardware



UAM180L
Galvanised steel heavy-duty parallel clamp
Boom: 40-75mm capability
Mount pole: 40-75mm capability



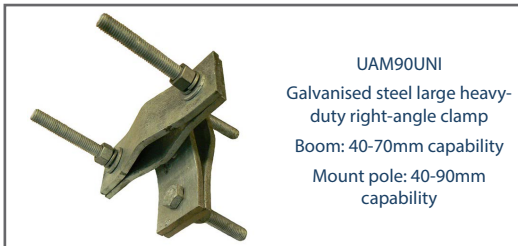
UAM180UNI
Galvanised steel large heavy-duty parallel clamp
Boom: 40-70mm capability
Mount pole: 40-90mm capability



UAM180UNIL
Galvanised steel extra large heavy-duty parallel clamp
Boom: 40-90mm capability
Mount pole: 60-115mm capability



UAM90L
Galvanised steel heavy-duty right-angle clamp
Boom: 40-75mm capability
Mount pole: 40-75mm capability



UAM90UNI
Galvanised steel large heavy-duty right-angle clamp
Boom: 40-70mm capability
Mount pole: 40-90mm capability



NSM-CL3642
Toughened white nylon wall or side mount.
32mm capability
1/2" mount bolt
Requires 19mm or 3/4" spanner

Suitable feeder coaxial cable and connector



MIL-SPEC RG213 stranded copper conductor coaxial cable
P/N 7800
Available in 100m or 300m rolls



N-type male crimp connector for MIL-SPEC RG213
P/N 7937
Tri-metal plated



RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(* times microwave)
P/N 7890
Available in 100m, 300m or 500m rolls



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, or 500m rolls



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