



DUA-4052 Series

UHF omnidirectional binary dipole array

UHF / TETRA / Land Mobile Radio 400-520MHz



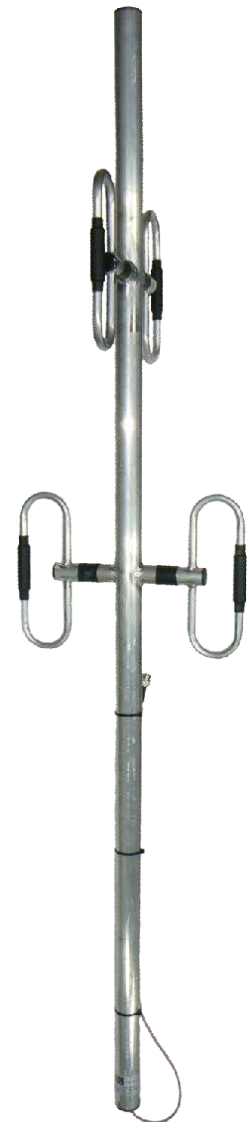
A binary dipole array offers both an omni-directional radiation pattern and genuine broadband coverage across the entire UHF / TETRA / Land Mobile Radio (LMR) frequency range.



The array is therefore ideally suited for multiple frequency transmissions at highly populated radio sites.

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

	DUA-4052-AL	DUA-4052-SS*
Construction	Fully-welded corrosion resistant aluminium	Fully-welded 304 grade stainless steel
Sets of dipoles	2 (4 dipoles)	
Frequency range	UHF / TETRA / LMR 400-520MHz	
Bandwidth	Full frequency range	
VSWR	<1.5:1	
Tuning	Factory	
Gain	3dBd	
Maximum power	500 Watts	
Polarisation	Vertical	
H Plane	360° omni-directional, ± 0.5 dBd	
E Plane	32°	
Impedance	50 Ohms	
DC grounding	Yes	
Cable	1 metre UV rated RG142 - bottom exit from mount section	
Connector	N-type female fitted to cable tail as standard or specify requirements	
Projected area	0.093m ²	
Wind load at 160kph	11.267kg, 0.110kN	
Height	2.0 metres	
Mount section area	48.4mm x 300mm	50.8mm x 300mm
Weight	5.1kg	10.0kg
Mounting hardware order separate	Parallel: 2 x UAM180L 40-75mm or UAM180UNI - 40-90mm capability Right-angle: 2 x UAM90L - 40-75mm or UAM90UNI - 40-90mm capability	



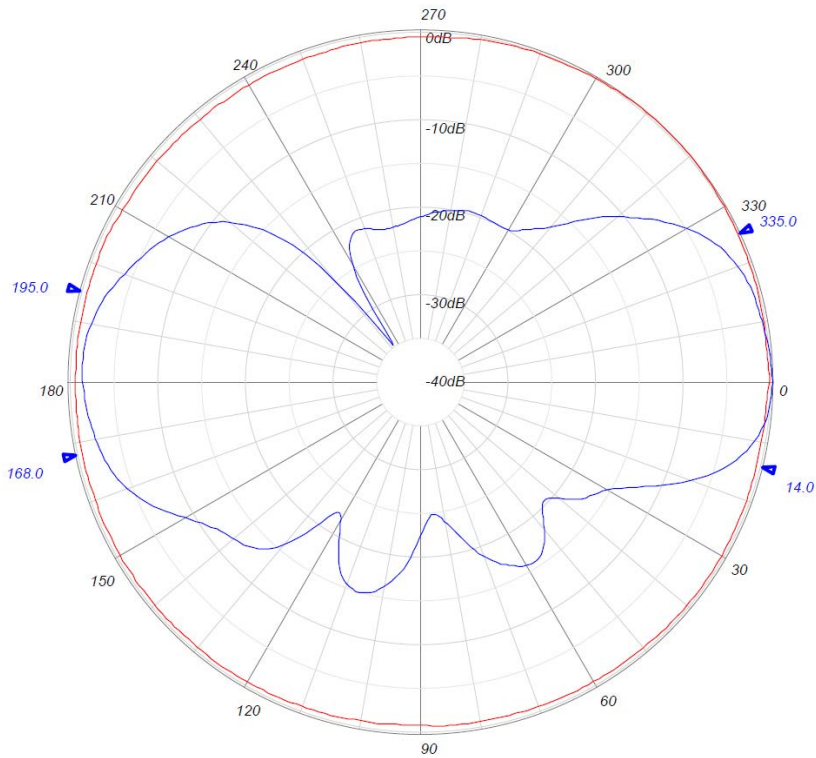


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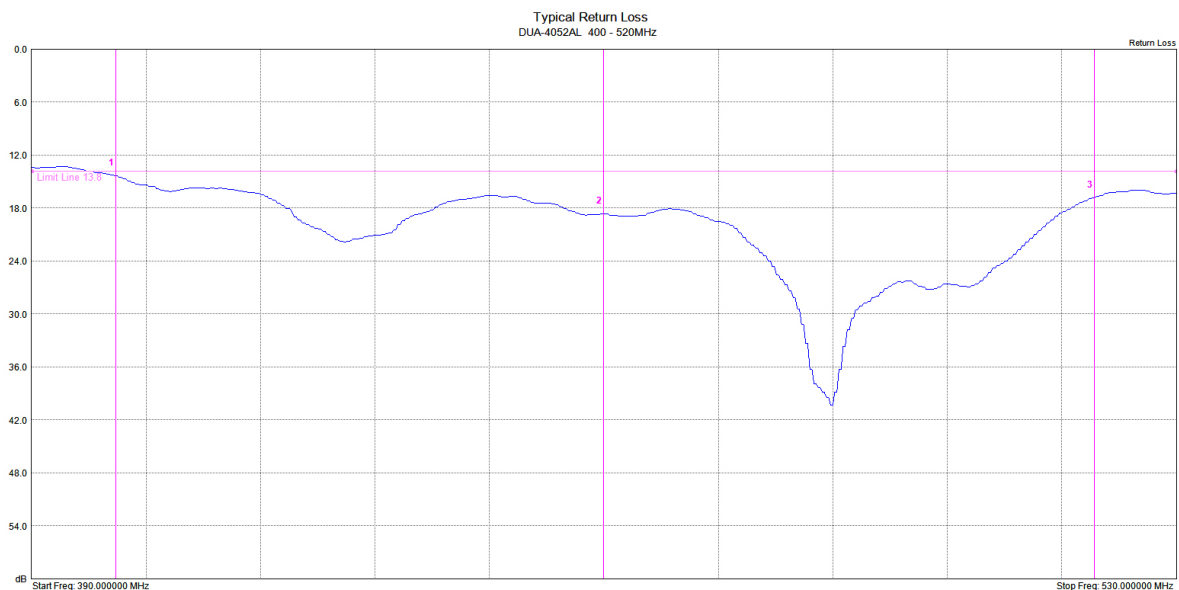
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 **In-stock
Ready to
Ship**
* Signifies build to
order item



Example radiation pattern



Mix	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	400.219 MHz	14.35 dB	--	--
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	460.000 MHz	18.64 dB	--	--
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	520.000 MHz	16.80 dB	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical Return Loss



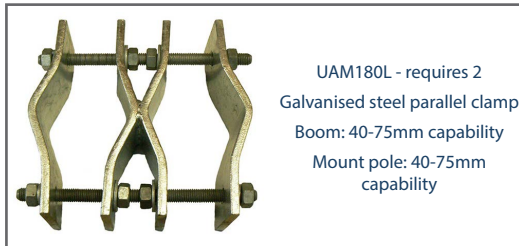
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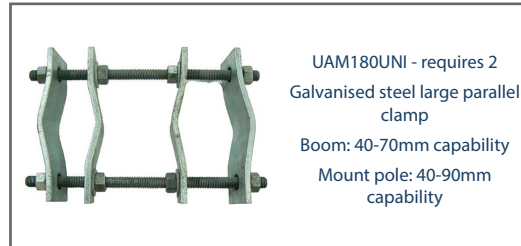
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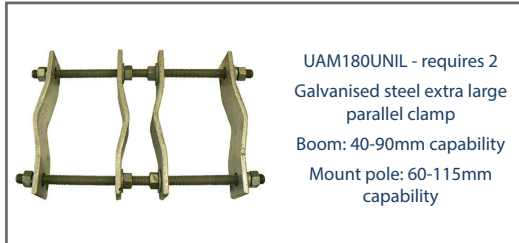
Suitable mounting hardware



UAM180L - requires 2
Galvanised steel parallel clamp
Boom: 40-75mm capability
Mount pole: 40-75mm
capability



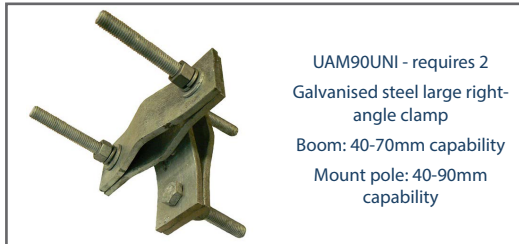
UAM180UNI - requires 2
Galvanised steel extra large parallel
clamp
Boom: 40-70mm capability
Mount pole: 40-90mm
capability



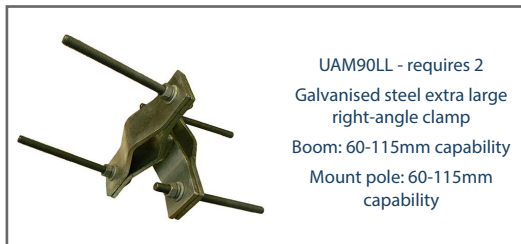
UAM180UNIL - requires 2
Galvanised steel extra large
parallel clamp
Boom: 40-90mm capability
Mount pole: 60-115mm
capability



UAM90L - requires 2
Galvanised steel right-angle
clamp
Boom: 40-75mm capability
Mount pole: 40-75mm
capability



UAM90UNI - requires 2
Galvanised steel large right-
angle clamp
Boom: 40-70mm capability
Mount pole: 40-90mm
capability



UAM90LL - requires 2
Galvanised steel extra large
right-angle clamp
Boom: 60-115mm capability
Mount pole: 60-115mm
capability

Suitable feeder coaxial cable



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

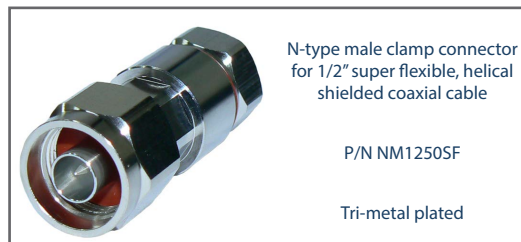


N-type male crimp connector
for RU400 low loss, solid
conductor
P/N 8226
Tri-metal plated



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