

## B19-SAR-154

### Ruggedised omnidirectional broadband coaxial dipole

#### VHF 143-162 MHz

The B19-SAR-154 VHF broadband ruggedised coaxial dipole provides a ruggedised, high quality fixed position antenna solution. It is ideal for omnidirectional low power transmit and receive applications up to 100 Watts. Ideal for tough conditions and high load environments.

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

Construction	Ruggedised parallel fibreglass radome, 304 stainless steel mount section and tri-metal plated termination
Frequency range	143-162 MHz - VHF
Maximum bandwidth	Full frequency range stated - 19 MHz
VSWR	<1.5:1 at centre and <1.8:1 on edges
Tuning	Factory
Gain	0 dBd - unity
Maximum power	100 Watts
Impedance - nominal	50 Ohms
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
E Plane	66°
Connector	N-type female in base of mount section - no cable
Height	2.13 metres
Weight	2.6kg
Projected area	0.069m <sup>2</sup>
Wind load at 160kph	8.329kg, 0.082kN
Mount section	480mm x 50.8mmø - 304 stainless steel
Mounting hardware order separate	Parallel: 2 x UAM180L or 2 x UAM180UNI Right-angle: 2 x UAM90L or 2 x UAM90UNI Side/wall mounting: 2 x NSM-223
Mounting position recommended	Mount as high as possible on your structure, mast or tower using the appropriate mounting clamps



Aluminium protection cap also reduces unwanted vertical signal loss

N-type female connector jack in base of mount section

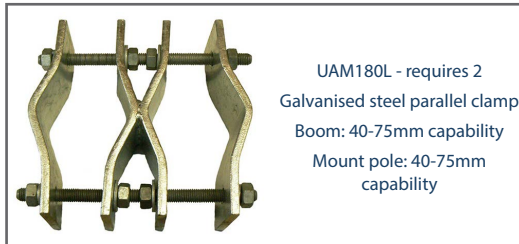


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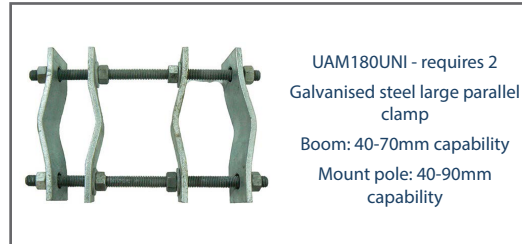
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#### Suitable mounting hardware



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



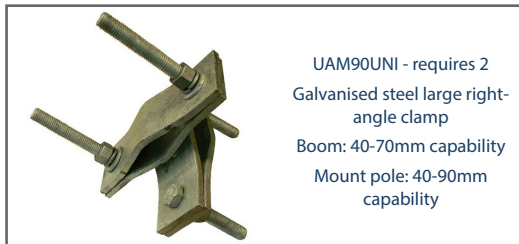
UAM180UNI - requires 2  
Galvanised steel large parallel  
clamp  
Boom: 40-70mm capability  
Mount pole: 40-90mm  
capability



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  
rolls or alternatively request a  
custom cable assembly



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



RU600 Solid copper conductor,  
low loss coaxial cable  
CNT-600 / LMR-600™ equivalent  
(™ times microwave)  
P/N 7890-2  
Available in 500m roll or  
alternatively request a custom  
cable assembly



N-type male crimp connector  
for RU600 low loss, solid  
conductor  
P/N 8226-2  
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