

VHF stack dipole arrays

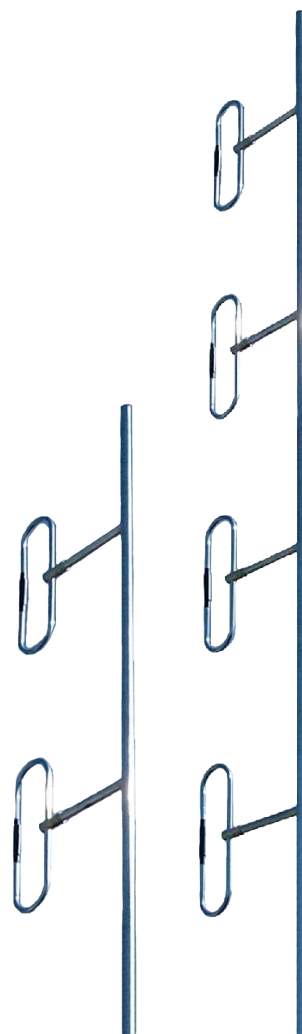
Broadband 2-stack or 4-stack internally phased dipole arrays

VHF high band 136-174MHz

These 2-stack or 4-stack dipole arrays cover the full VHF high band frequency range 136-174MHz. There are various methods of mounting these dipole stack arrays to a mast or tower. Please consult ZCG for advice about the best solution for your mounting arrangement and dual termination models.

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

	S2B43-1C	S4B43-1C
Construction	Welded corrosion resistant aluminium, add SS for 304 stainless steel with internal phasing harness	
Dipoles in array	2	4
Frequency	VHF high band 136-174MHz	
Bandwidth	Full frequency range stated	
VSWR	<1.5:1	
Tuning	Factory	
Gain	4.5dBd	7dBd
Maximum power	250 Watts	
Impedance - nominal	50 Ohms	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	240°	
E Plane	33°	16°
Connector	1 x N-type female fitted to 1.0m cable tail	
Passive IM 3rd order (2x20w)	< -120dBc	
Mount section	3.0m x 50mm	5.6m x 50mm
Weight	9kg in aluminium 15kg in stainless steel	16kg in aluminium 28kg in stainless steel
Projected area	0.214m ²	0.420m ²
Wind load at 160kph	25.873kg, 0.254kN	50.935kg, 0.499kN
Mounting hardware order separate	Parallel 2 x UAM180L or UAM180UNI Right-angle 2 x UAM90L, UAM90UNI or UAM180UNIL is 60-115mm capability	Parallel 2-3 x UAM180L or UAM180UNI Right-angle 2-3 x UAM90L, UAM90UNI or UAM180UNIL is 60-115mm capability



S2B43PH-1C

S4B43PH-1C



Single coaxial cable exit through cable sealant gland

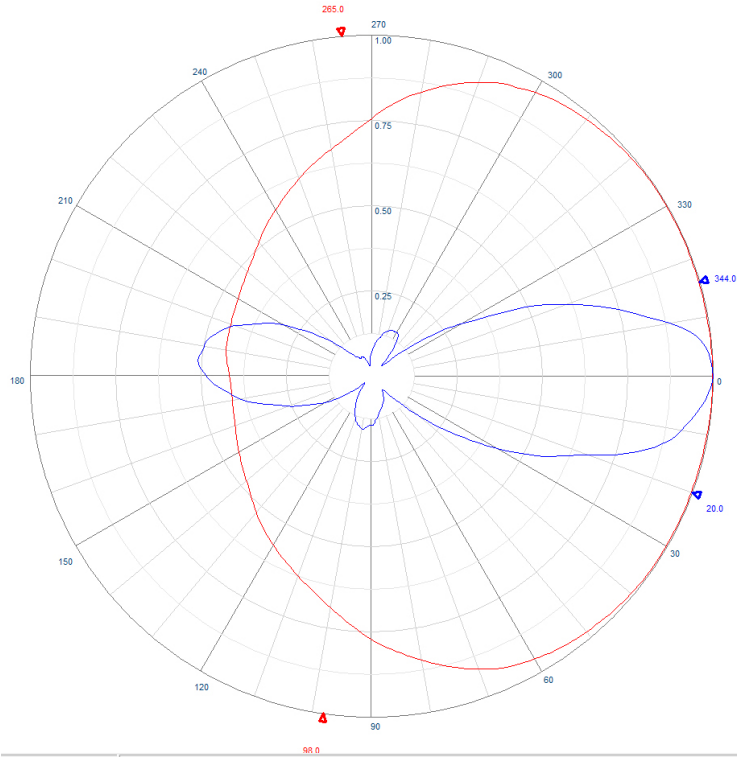


N-type female fitted as standard or specify requirements

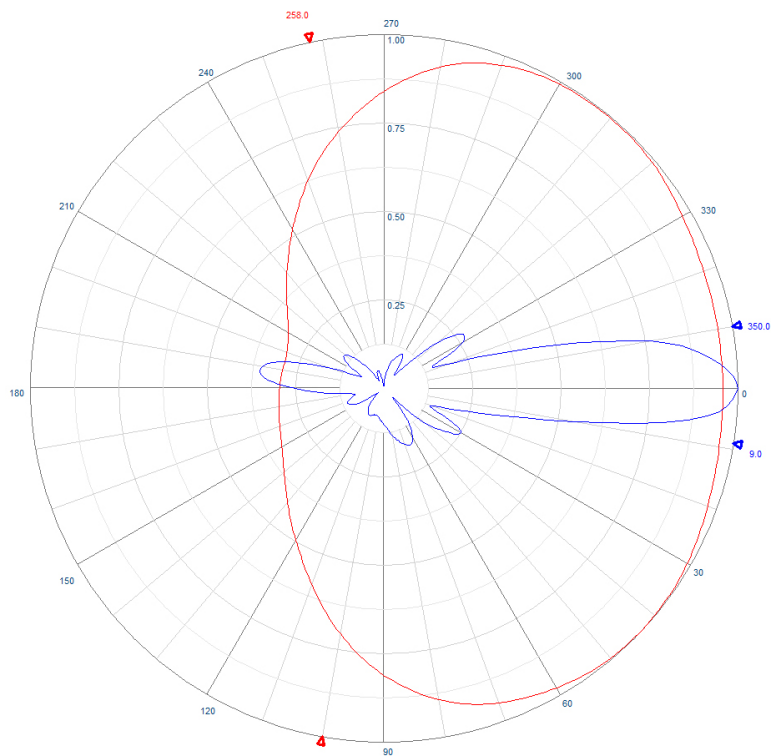
VHF stack dipole arrays

Broadband 2-stack or 4-stack internally phased dipole arrays

VHF high band 136-174MHz



Example radiation pattern - S2B43-1CPH at 136MHz



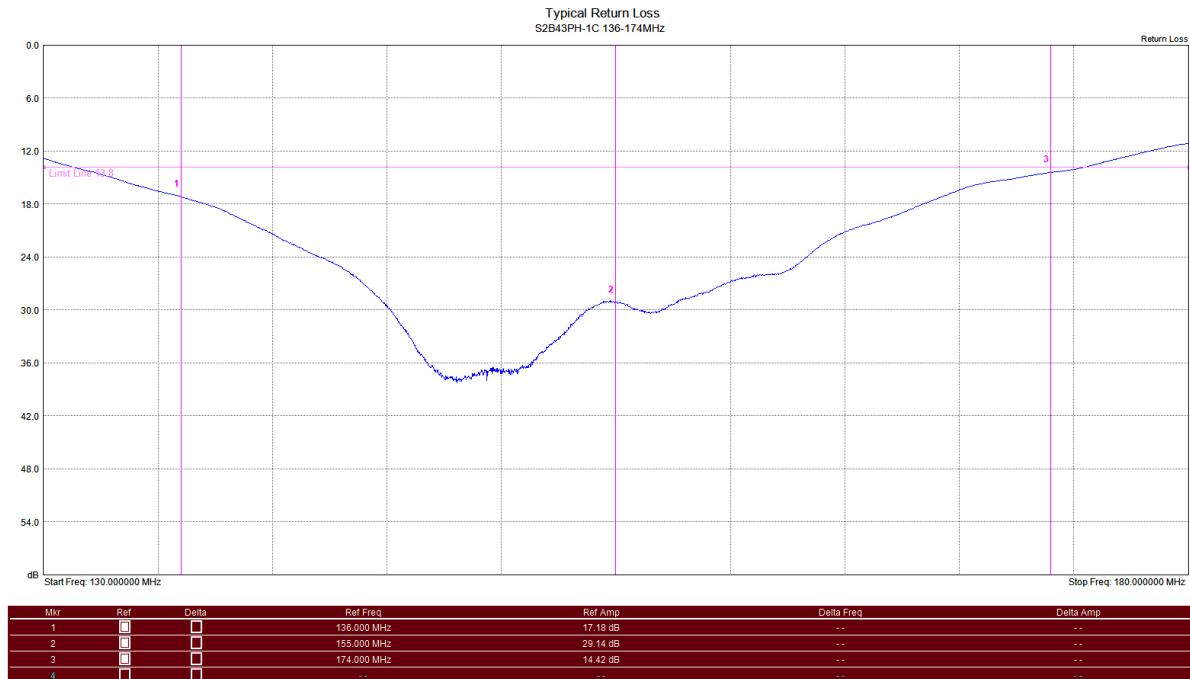
Example radiation pattern - S4B43-1CPH at 136MHz



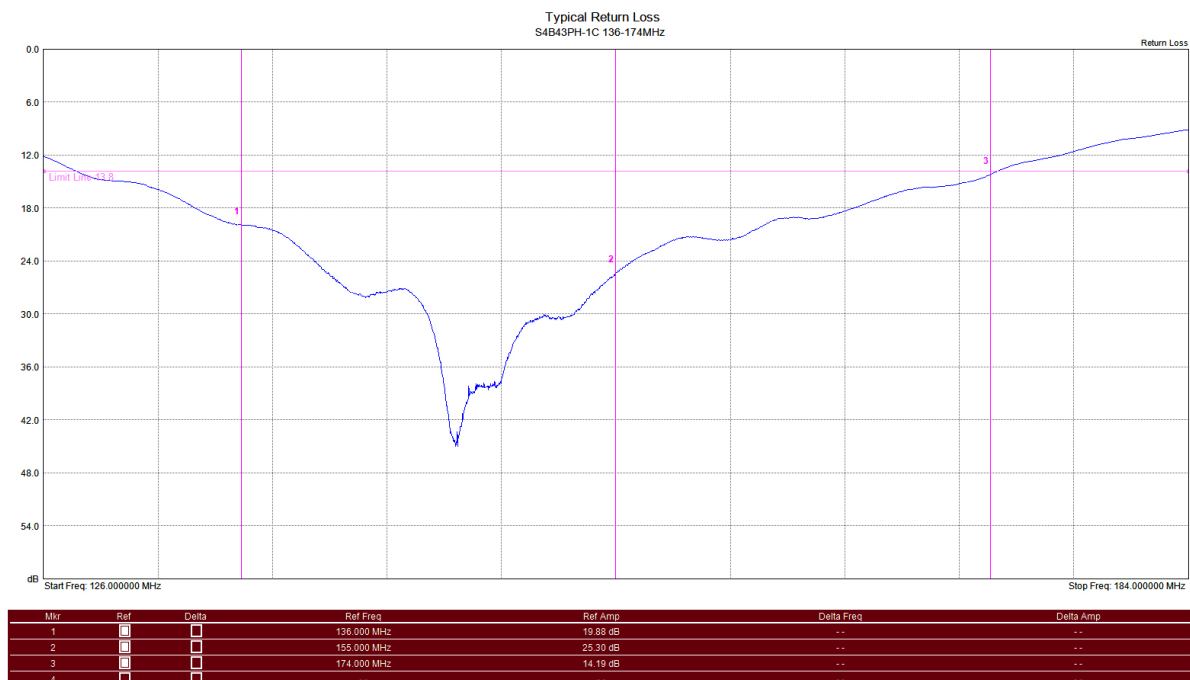
VHF stack dipole arrays

Broadband 2-stack or 4-stack internally phased dipole arrays

VHF high band 136-174MHz



Typical Return Loss - S2B43PH-1C



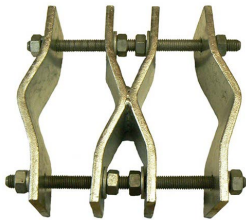
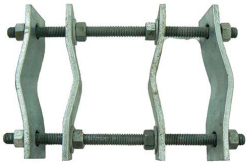
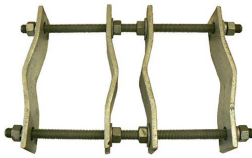
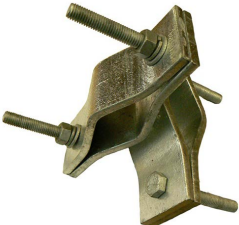


Typical Return Loss - S4B43PH-1C

VHF stack dipole arrays



Broadband 2-stack or 4-stack internally phased dipole arrays

VHF high band 136-174MHz

Suitable mounting hardware

 <p>UAM180L - requires 2 Galvanised steel parallel clamp Boom: 40-75mm capability Mount pole: 40-75mm capability</p>	 <p>UAM180UNI - requires 2 Galvanised steel large parallel clamp Boom: 40-70mm capability Mount pole: 40-90mm capability</p>
 <p>UAM180UNIL - requires 2 Galvanised steel extra large parallel clamp Boom: 40-90mm capability Mount pole: 60-115mm capability</p>	 <p>UAM90L - requires 2 Galvanised steel right-angle clamp Boom: 40-75mm capability Mount pole: 40-75mm capability</p>
 <p>UAM90UNI - requires 2 Galvanised steel large right-angle clamp Boom: 40-70mm capability Mount pole: 40-90mm capability</p>	 <p>UAM90LL - requires 2 Galvanised steel extra large right-angle clamp Boom: 60-115mm capability Mount pole: 60-115mm capability</p>

Suitable feeder coaxial cable

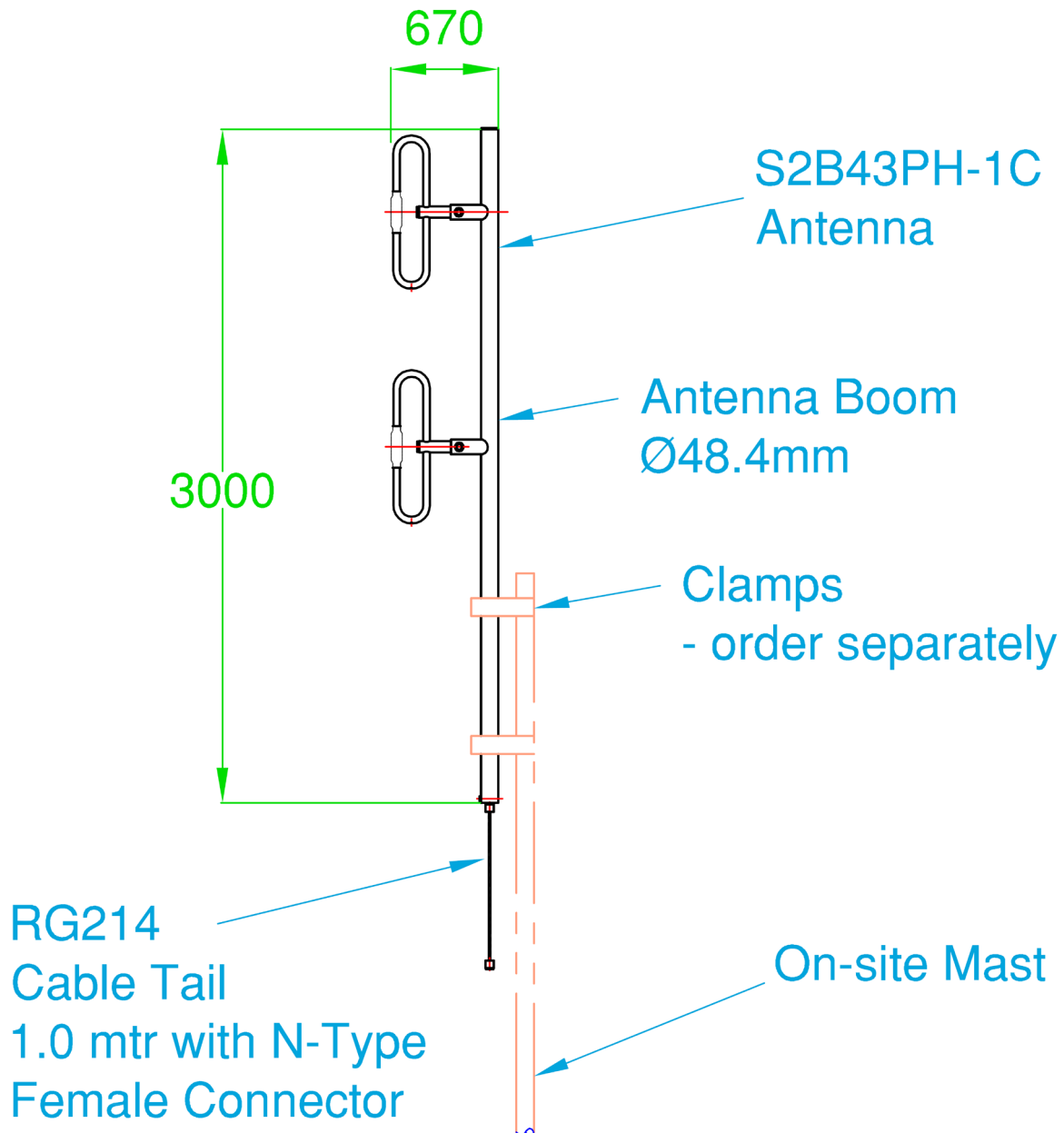
 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890 Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor P/N 8226 Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250 Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable P/N NM1250 Tri-metal plated</p>
 <p>7/8" corrugated shielding, foam dielectric coaxial cable P/N ZCG7850 Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 7/8" flexible, corrugated shielded, coaxial cable P/N NM7850 Tri-metal plated</p>



VHF stack dipole arrays

Broadband 2-stack or 4-stack internally phased dipole arrays

VHF high band 136-174MHz



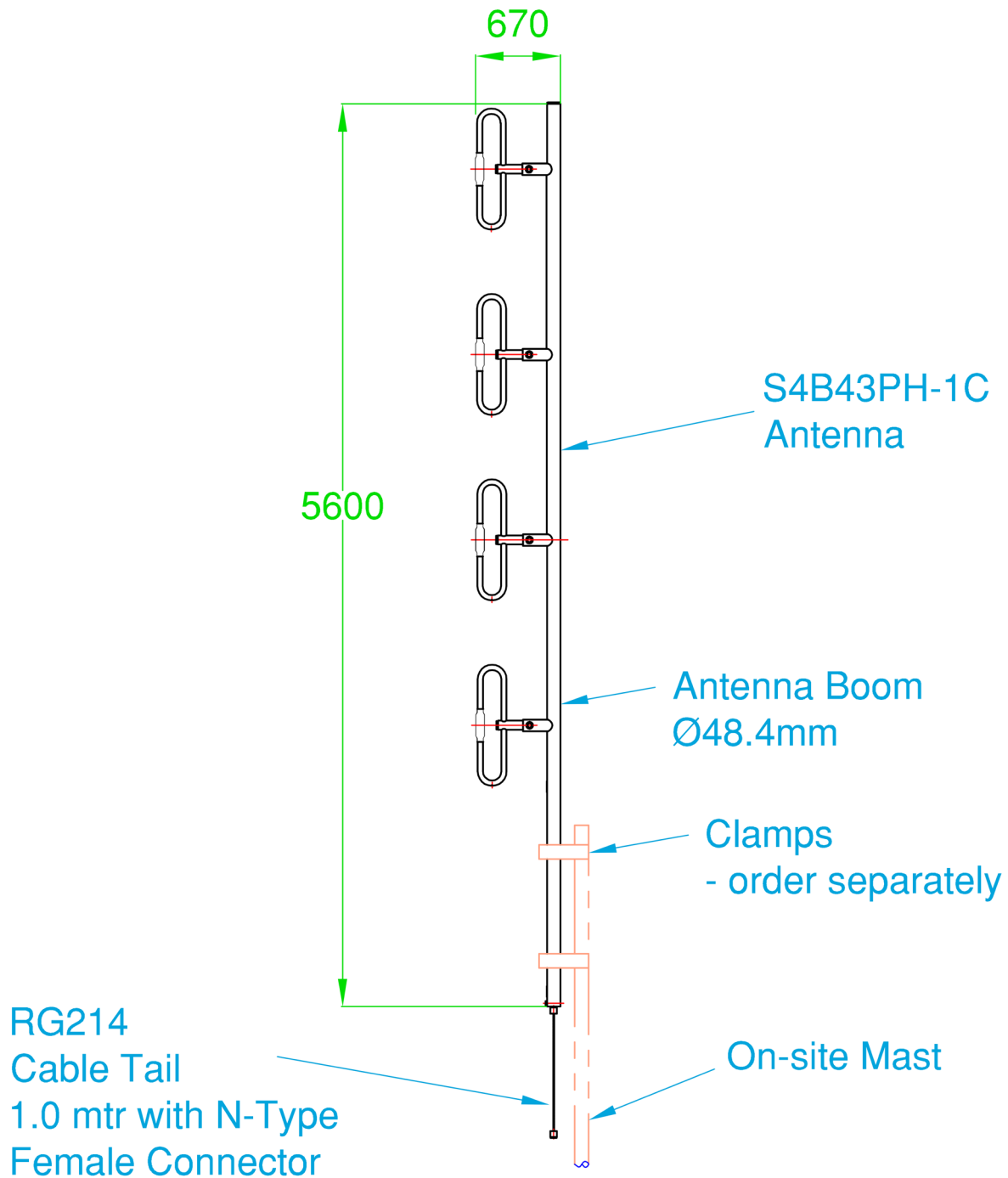
Side View:



VHF stack dipole arrays

Broadband 2-stack or 4-stack internally phased dipole arrays

VHF high band 136-174MHz



Side View: