

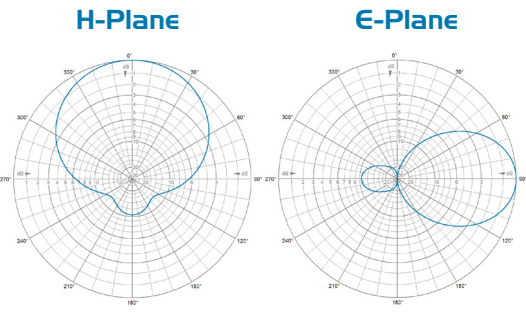
The S.2Y Series are of a rugged and reliable construction for communication networks at both VHF & UHF. The one piece folded dipole incorporates a d.c. short to minimise static interference. The balun assembly is completely encapsulated in epoxy resin, totally preventing moisture ingress, and has been tested to BS5490:IP67. These antennas give a gain of 3dBd with front to back ratio typically 13 dB. They are supplied as standard with 3 metres of RG213 cable terminated with an 'N' type socket, although cable and connector options are available upon request.

## Electrical & mechanical specifications



<b>Frequency range</b>	68 - 500 MHz
<b>Input Impedance</b>	50Ω
<b>Bandwidth</b>	± 6% of Centre Frequency
<b>VSWR</b>	<1.5:1
<b>Front to Back Ratio</b>	13 dB
<b>Maximum Input Power</b>	150 Watts
<b>Polarisation</b>	Vertical & Horizontal
<b>Forward Gain</b>	3 dBd
<b>3 dB Beamwidth</b>	<b>E Plane</b> 72¼ <b>H Plane</b> 144¼
<b>Standard Connection</b>	3m Length of RG213 c/w 'N' type socket
<b>Elements</b>	<b>VHF</b> 19.0mm dia.x 1.6mm wall Aluminium Alloy Grade 6063T6 <b>UHF</b> 12.7mm dia. x 1.6mm wall Aluminium Alloy Grade 6063T6
<b>Support Boom</b>	31.7 mm dia. x 2.6 mm wall Aluminium Alloy Grade 6082T6
<b>Fasteners</b>	Stainless Steel Grade A2-70
<b>Saddle clamps</b>	Diecast Zinc Alloy
<b>Insulator</b>	Epoxy Resin Encapsulant
<b>Lightning protection</b>	Direct Grounded
<b>Mounting Brackets</b>	COP series (not supplied)
<b>Typical Weight</b>	<b>VHF</b> 3.5 kg <b>UHF</b> 1.3 kg
<b>Typical Length</b>	<b>VHF</b> 1.5 m <b>UHF</b> 0.6 m
<b>Typical Wind loading @ 45m/s</b>	<b>VHF</b> 180 N <b>UHF</b> 50 N

### Free space radiation patterns



### Mounting accessories

- 271 Series**  
Cast aluminium cross clamp 30-60mm
- COP54**  
Galvanised steel cross clamp 32/50mm
- UA Series**  
Cast aluminium cross clamp 25-115mm

### Standard stock models

Stock code	Frequency
<b>S.2Y/78</b>	71-85MHz
<b>S.2Y/127</b>	117-137MHz
<b>S.2Y/165</b>	155-175MHz
<b>S.2Y/184</b>	176-192MHz
<b>S.2Y/200</b>	192-208MHz
<b>S.2Y/395</b>	380-410MHz
<b>S.2Y/420</b>	410-430MHz
<b>S.2Y/445</b>	420-470MHz