

The S.C3B series of glassfibre collinears are designed for professional base station and telemetry applications. The antennas have been designed with an integral dual purpose mounting bracket, cast in aluminium. The stainless steel fittings enable the antennas to be fixed to the top or side of a vertical pole up to 60mm diameter. The all coaxial fed centre fed dipoles enable beam tilt to be readily achieved, if specifically required. All S.C3B series antennas are d.c. grounded. A VSWR of 1.5:1 is achieved over a bandwidth of  $\pm 4\%$  of centre frequency.

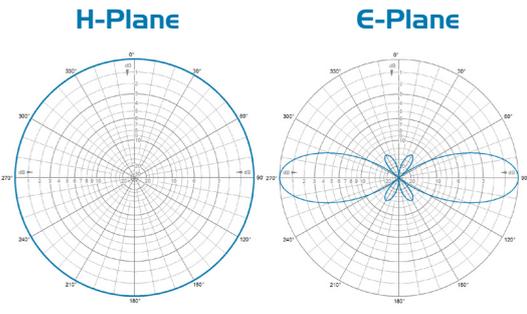
The S.C3B is approved for use on MPT1411 systems.



## Electrical & mechanical specifications

Frequency range	138 - 960 MHz		
Input impedance	50Ω		
Bandwidth	$\pm 4\%$ of centre frequency		
VSWR	<1.5:1		
H Plane ripple	< $\pm 0.5$ dB		
Maximum input power	<b>VHF/UHF</b> 150 Watts	<b>SHF</b> 100 W	
Polarisation	Vertical		
Forward gain	3 dBd		
3 dB Beamwidth	<b>E Plane</b> 33¼		
Connection	0.5m Length of RG213 c/w 'N' type socket.		
Dipoles	11mm dia brass tube		
Dipole feeds	PTFE dielectric coaxial cable		
Shroud	Parallel grey glassfibre tube		
	<b>VHF</b> 40mm	<b>UHF/SHF</b> 26mm	
Lightning protection	Direct Grounded		
Mounting bracket	Integral diecast aluminium alloy grade LM6		
Bracket finish	Black anodise		
Mast fixings	Stainless steel M8 V bolts grade A2-70		
Typical weight	<b>VHF</b> 1.5kg	<b>UHF</b> 0.8kg	<b>SHF</b> 0.6kg
Typical length	<b>VHF</b> 3.1m	<b>UHF</b> 1.5m	<b>SHF</b> 0.8m
Typical wind loading @ 45m/s	<b>VHF</b> 185N	<b>UHF</b> 81N	<b>SHF</b> 46N

### Free space radiation patterns



### Mounting accessories



### Standard stock models

Stock code	Frequency
<a href="#">S.C3B/155</a>	145-165MHz
<a href="#">S.C3B/165</a>	155-175MHz
<a href="#">S.C3B/395</a>	380-410MHz
<a href="#">S.C3B/420</a>	410-430MHz
<a href="#">S.C3B/445</a>	450-470MHz
<a href="#">S.C3B/915</a>	870-960MHz