

SG1400 Series

Omnidirectional or Directional wireless data collinear

UHF 1.35-1.4 GHz

The SG1400 series of ruggedised collinear specifically designed and manufactured for use within the UHF 1.35-1.4 GHz frequency range.

The SG1400 should be mounted utilising the ruggedised mount ferrule, for structure or tower mounting utilising appropriate parallel or right-angle mounting brackets.

The SG1400-RS high gain, rear screened directional collinear antenna can be mounted onto a tower or structure utilising the supplied mounting U-bolts.

Alternative mounting options, adaptors, connectors and other installation accessories are all available separately.

	SG1400	SG1400-RS
Construction	Parallel fibreglass radome, aluminium mount ferrule and cap and external termination	Powdercoated angled rear screen, parallel fibreglass radome, aluminium mount ferrule and external termination
Frequency range	1.35-1.40 GHz - UHF	
Bandwidth	Full frequency range stated - 50 MHz	
Tuning	Factory	
Gain	5.2 dBi	11.5 dBi
Impedance	50 Ohms	
Polarisation	Vertical	
DC grounding	Yes	
H Plane	360° omnidirectional	171° ± 3 dBd
E Plane	20°	31°
Front-to-back	-	18 dB
Connector	N-type female at base of mount section	
Height	520mm	343mm
Weight	900grams	1.5kg
Mount section	100mm x 42mm diameter - aluminium	30-50mm capability U-bolts at rear of unit
Projected area	0.0011m ²	0.064m ²
Wind load at 160kph	1.3kg, 0.013kN	7.763kg, 0.076kN
Mounting hardware order separate	Parallel: 1 x UB3-SS Right-angle: 1 x UB2-SS	2 x 30-50mm capability U-bolts - supplied



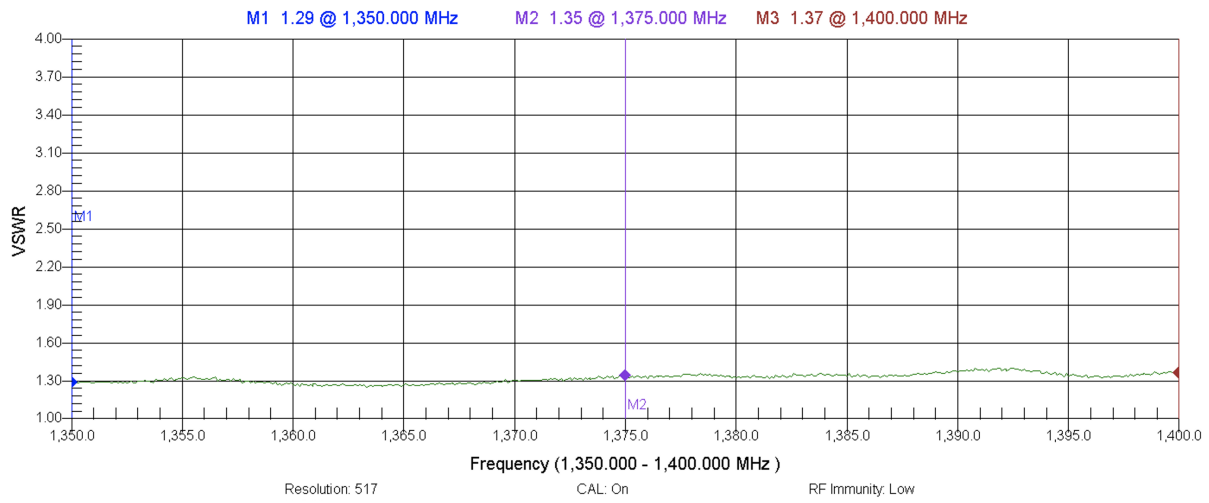


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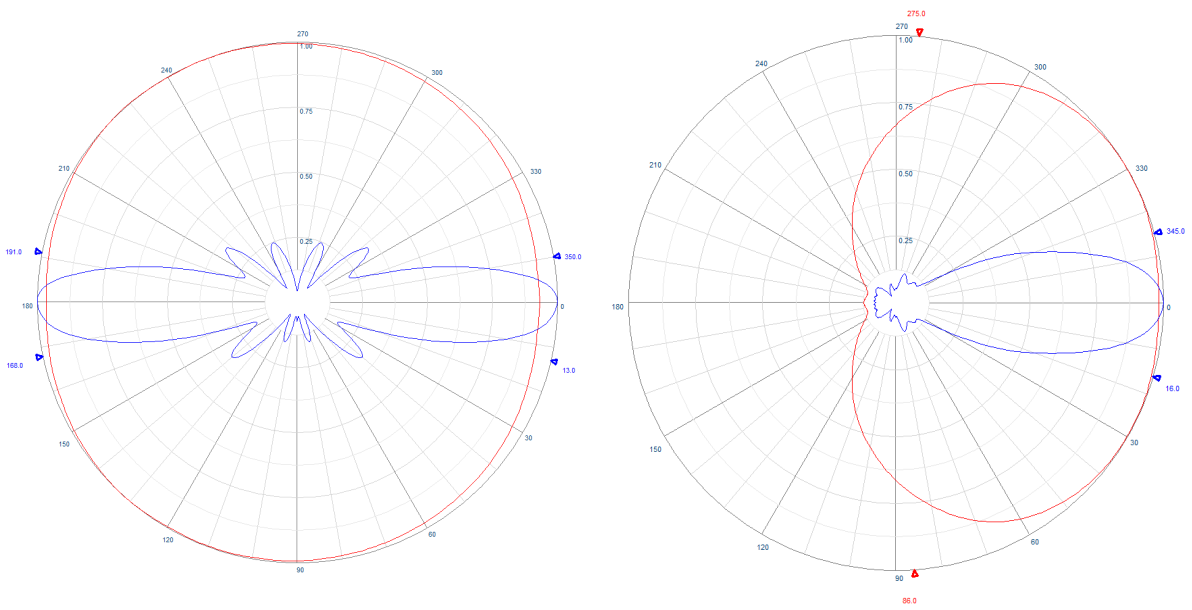
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Typical VSWR
SG1400 1.35-1.4GHz



Typical VSWR



Example Radiation pattern - SG1400

Example Radiation pattern - SG1400-RS

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Suitable mounting hardware



CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS




A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS




SFB900 - Galvanised steel straight extension brackets - 900mm or specify length requirements

Requires 2 x EB1-SS or 1 x UB2-SS for antenna mounting



A-2307 - 6-piece aluminium & fibreglass mast - 6.68m

Includes: insulated top, guy wires, spigots and base bracket.



UB3-SS
304 stainless steel parallel clamp
Boom: 20-32mm capability
Mount pole: 20-50mm capability




UB2-SS
304 stainless steel right-angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm capability

Suitable coaxial cable and connectors



MIL-SPEC RG213 stranded copper conductor coaxial cable
P/N 7800

Available in 100m or 300m rolls or alternatively request a custom cable assembly



N-type male crimp connector for MIL-SPEC RG213
P/N 7937
Tri-metal plated



RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(* times microwave)
P/N 7890

Available in 100m, 300m or 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



1/2" super flexible helical shielded, foam dielectric coaxial cable
P/N ZCG1250SF

Available in per metre, or 500m rolls 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