

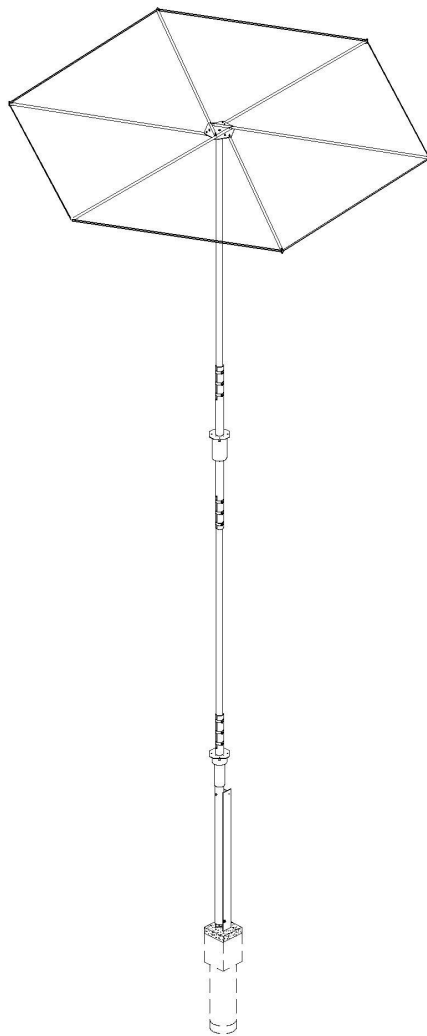


## 34 ft. Mast Antenna - Land

Part Number: SLF10014

SPECIFICATION SHEET

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SAC 34 ft. Land Mast Antenna

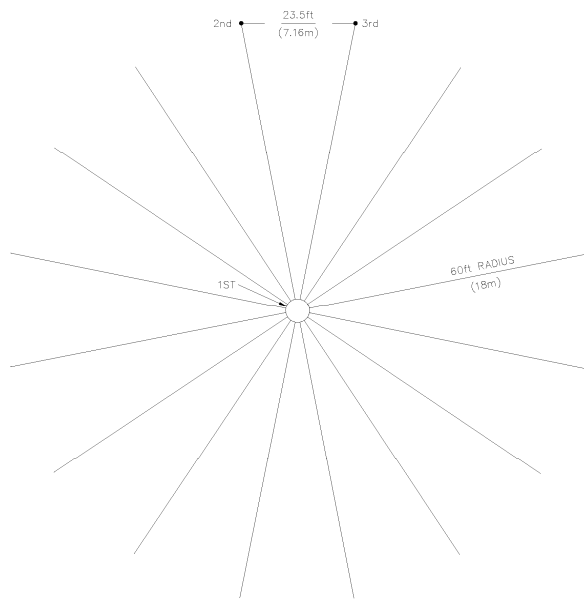
FEATURE	SPECIFICATION
Resistance	2-30 Ohms, 10 Ohms typical
Max Power Rating	500 Watts PEP / 125 Watts carrier power at 100% amplitude modulation
Capacitance	350 pF
Frequency of Operation	190 - 650 kHz
Polarization	Vertical
Pattern	Omnidirectional
Antenna Gain	-12 dBi@ 300 kHz
Electrical Length	26.6 ft. (8m)
Wind Rating	100 mph (161km/hr)
Height	34 ft. (10m)
Weight	223 lbs. (101kg)
Sections	One (1) 12ft (3m) aluminum "A" section, one (1) 7ft (2.1m) Fiberglass loading coil "B" section, one (1) 12ft (4m) aluminum "C" section and one (1) 9ft (2.7m) aluminum fiberglass insulator "D" section
Finish	Anodized Aluminum, Fiberglass Tubing with UV Protective Paint and Galvanized Steel "H" Beam. Galvanized to ASTM A123
Temperature Range	-50°C - +70°C
Base Pier ratings	2000 ft.-lbs. (2714 N-m), land only
16 Radial Ground System	1100 ft. (335m) of #10 AWG soft-drawn copper wire, 17 6 ft. (2m) ground rods, ground clamps, associated hardware
Optional Equipment	Antenna Simulator, Enhanced Counterpoise SLF87720

\*Information provided is subject to change without notice

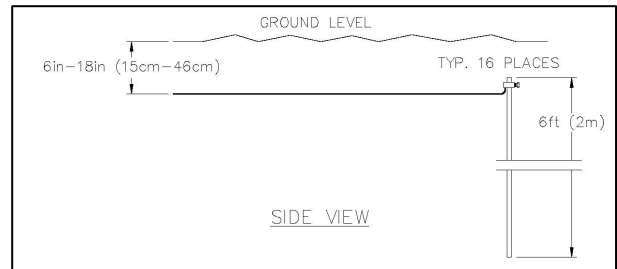
### **Application:**

The 34 ft. self-supporting LF/MF antenna has capacitive top loading and inductive center loading. It is designed for use where land area is at a premium and low frequency operation is desired. A perimeter wire around the top hat radius enables the antenna to reach all frequencies desired. It is easy to install by walking it up into place, with a team of three people.

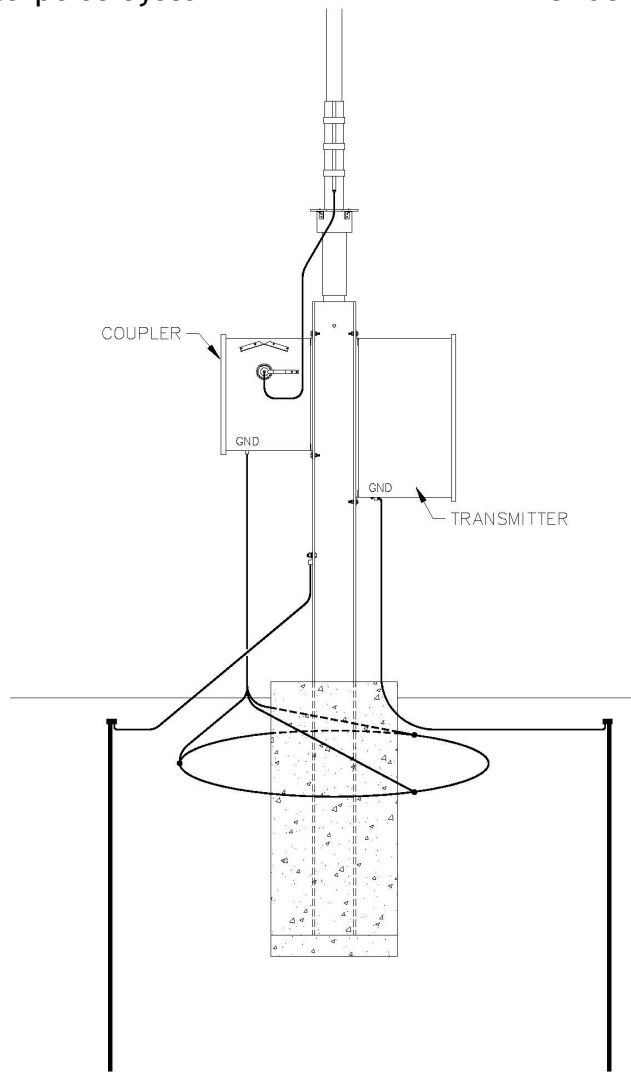
A counterpoise system is comprised of 16 radials and is designed to provide optimal range with good ground conditions. The installation site should be a clear, flat area. Poor ground conditions, such as sand or rocks, will require enhanced counterpoise arrangements. SAC can provide site planning assistance to correctly configure your equipment for optimal performance.



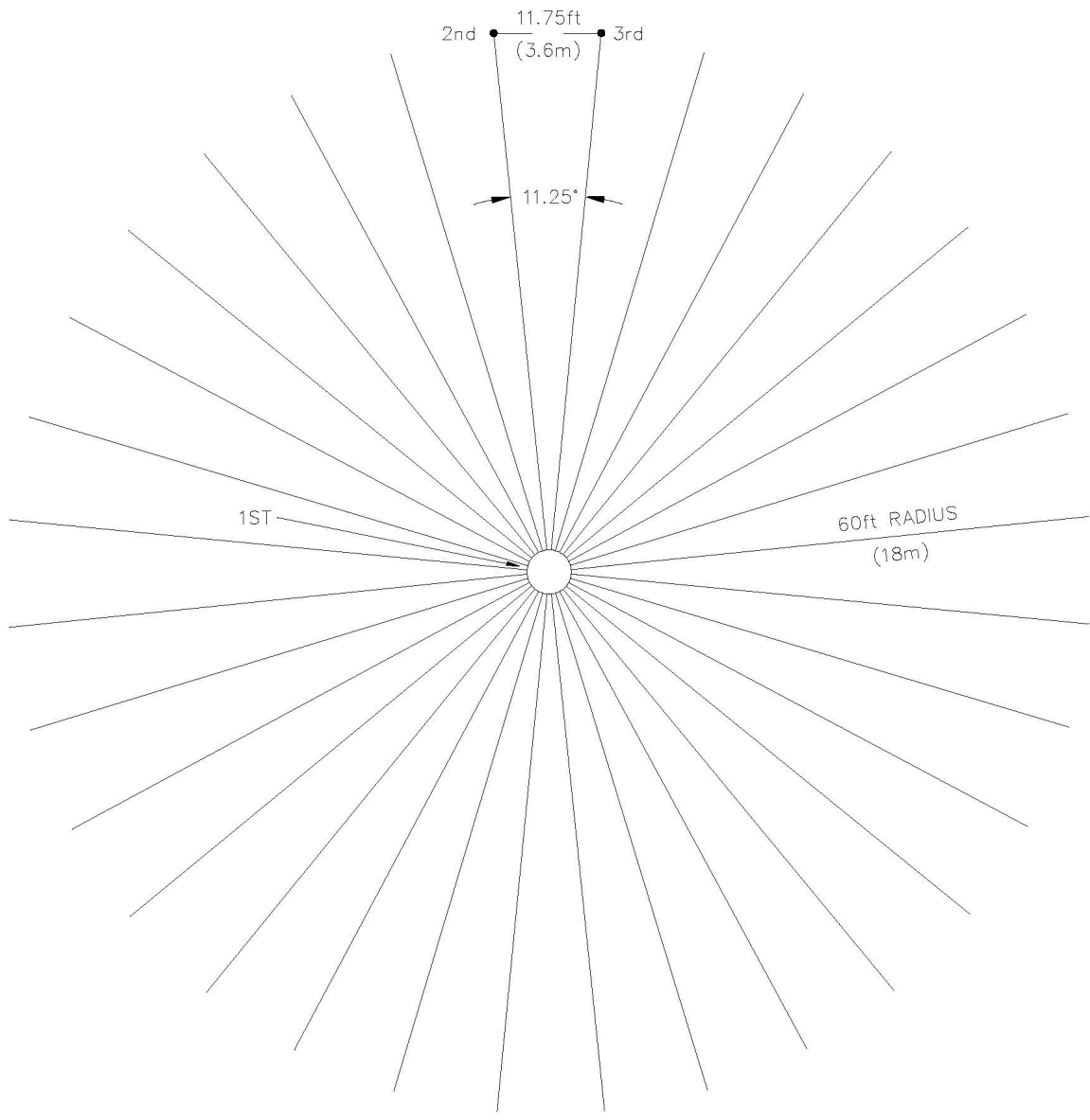
16 Radial Counterpoise System



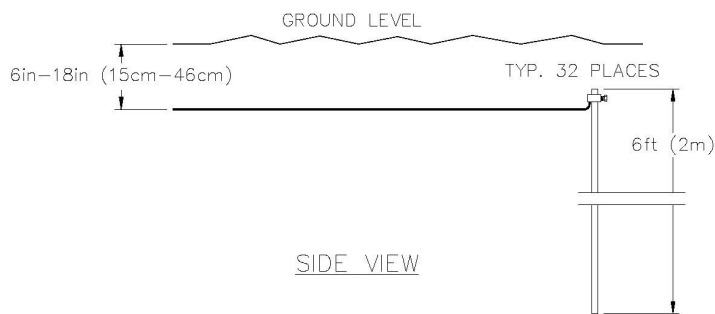
Underground View



Counterpoise Connection Diagram



32 Radial Counterpoise Diagram



**Application:**  
 Sixteen (16) radials are generally adequate for "normal" soil, but in cases of poor ground conductivity, the number of radials can be doubled by using option SLF87720 which will double the number of radials to 32.