



## 30 ft. Low-Power Symmetrical T Antenna

Part Number: SLF10027

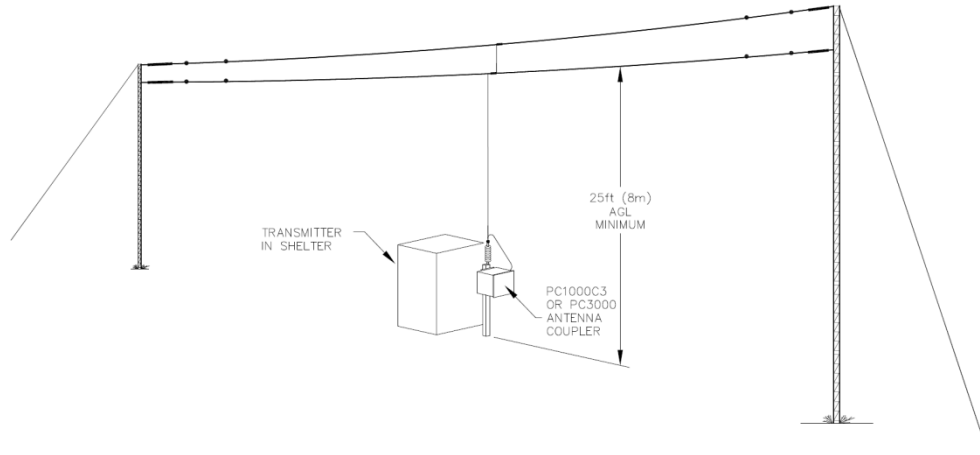
SPECIFICATION SHEET

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### Application:

A Symmetrical "T" Antenna is recommended for use with a 125 - 250 Watt transmitter, if sufficient land is available. It is the optimal land based antenna system.

Signal range is a result of field strength which depends on TX power, electrical length and ground conditions

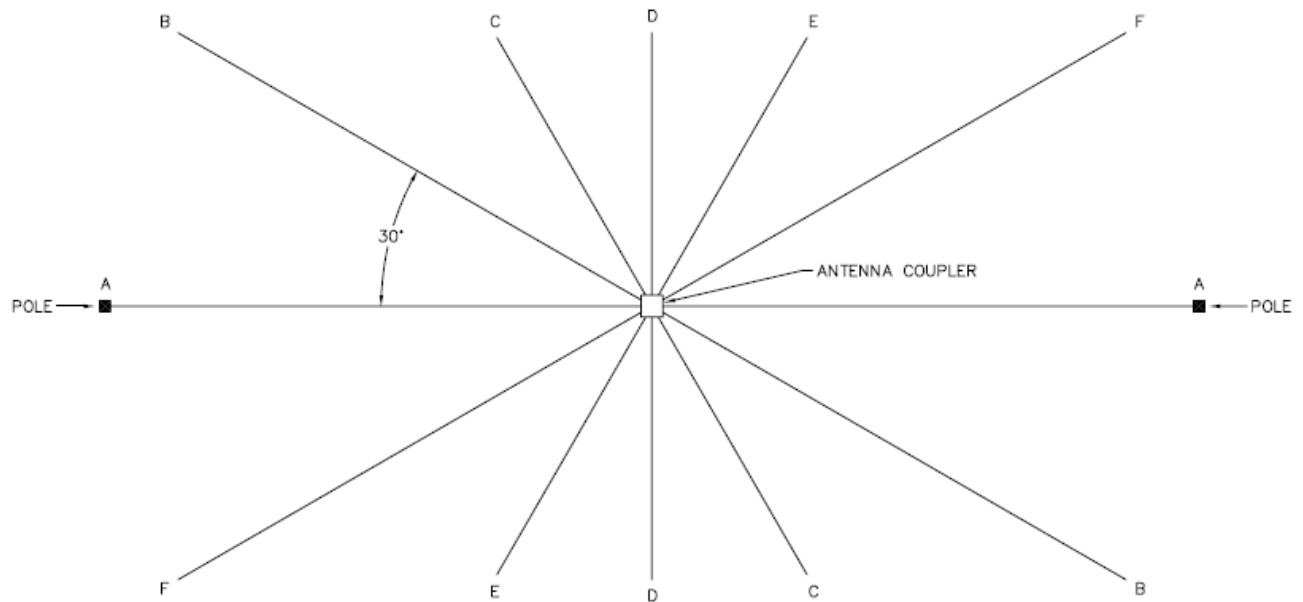
30ft (9.1m) grounded towers are required. They may be purchased from SAC or self-supplied. Towers are placed 300ft (91m) apart and have a 25ft (7.6m) vertical radiator with a 2 wire 280ft (85m) top hat. 3 guy wires support each tower.

The Antenna is designed for use with the PC1000C/3 or PC3000 Antenna Tuning Units which can have an optional AC power supply installed.

\*Information provided is subject to change without notice.

FEATURE	SPECIFICATION
System Resistance	Typically 10 Ohms for good ground
Power Rating	1200 Watts (PEP)
Capacitance	869pF
Frequency of Operation	190-535 kHz
Range (125W Transmitter) over Good Ground	45 nautical miles at 190kHz to 60 nautical miles at 535kHz
Range (250W Transmitter) over Good Ground	55 nautical miles at 190 kHz to 65 nautical miles at 535 kHz
Polarization	Vertical (Omni-directional pattern)
Electrical Length	8.8m
Wind Rating	130 mph (209km/h)
Height of towers	30 ft / 9.1m
Ground Plot Requirements	160ft (49m) x 364ft (111m)
Weight of installed towers	270lbs (123kg)
Optional Equipment	Optional Supports, Installation Kit, Antenna Simulator, Obstruction Lights, Anti-Ice Insulators
Temperature Range	-50°-+70°C
Ice Rating	Derate Wind Rating with any ice accumulation
12 Radial Ground System	1500ft (457m) of #10 AWG soft-drawn copper wire, 13-2m ground rods, ground clamps, associated hardware

## Counterpoise Diagram



LENGTH OF	
A-A	= 300 ft. (91m)
B-B	= 300 ft. (91m)
C-C	= 170 ft. (52m)
D-D	= 150 ft. (46m)
E-E	= 170 ft. (52m)
F-F	= 300 ft. (91m)
TOTAL	1390ft. (424m)

