90 ft. Low-Power Symmetrical T Antenna
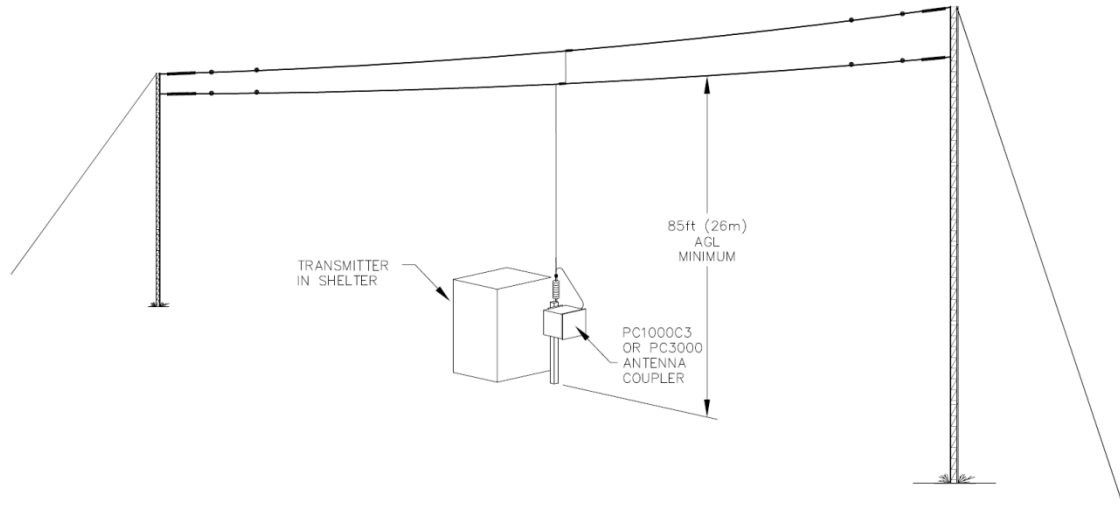
Part Number: SLF10027

5055 Belmont, Beaumont, TX 77707
Phone +409.842.1717/1.800.648.6158 (Toll Free in the US)
Fax +409.842.2987
sales@southernavionics.com

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
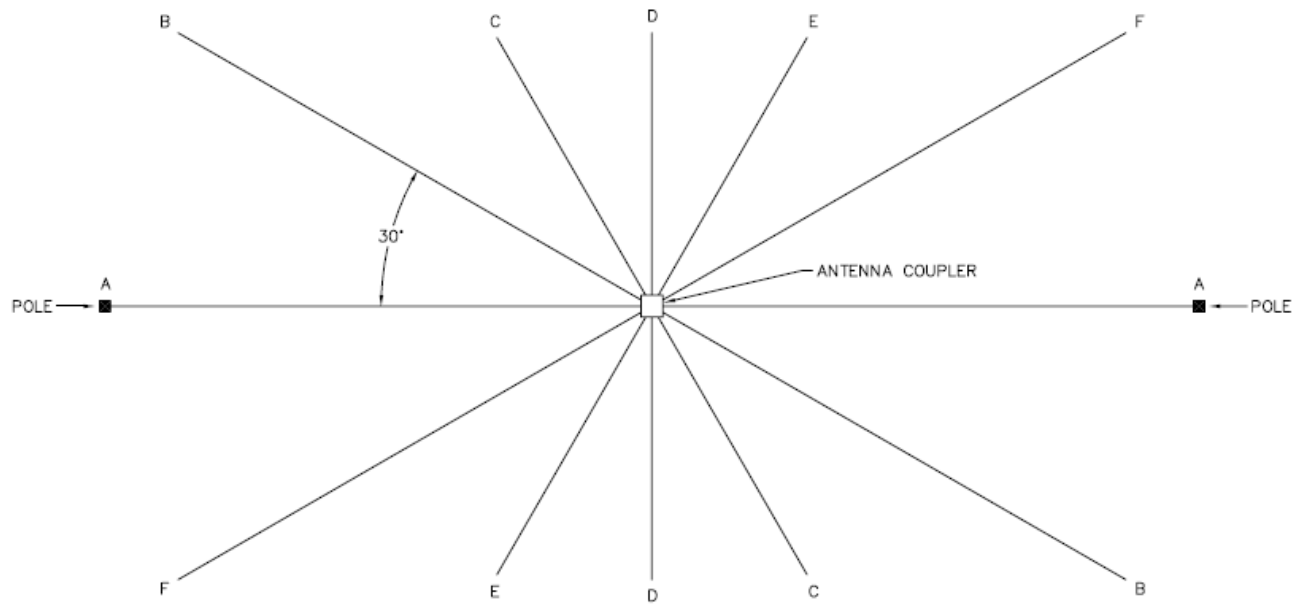
90 ft. (27m) grounded towers are required. They may be purchased from SAC or self-supplied. Towers are placed 300 ft. (91m) apart and have a 85 ft. (26m) vertical radiator and a 2 wire 280 ft. (85m) top hat. 3 guy wires support each tower.

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	845pF
Frequency of Operation	190-535 kHz
Range (125W Transmitter) over Good Ground	100 nautical miles at 190 kHz to 110 miles at 535 kHz
Range (250W Transmitter) over Good Ground	130 nautical miles at 190 kHz to 115 nautical miles at 535 kHz
Polarization	Vertical (Omni-directional pattern)
Electrical Length	25m
Wind Rating	130 mph (209km/h)
Height of towers	90 ft. (27m)
Ground Plot Requirements	160 ft. (49m) x 450 ft. (137m)
Weight of installed towers	607 lbs. (276kg)
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	1500 ft. (457m) of #10 AWG soft-drawn copper wire, 13 2m ground rods, ground clamps, associated hardware

Counterpoise Diagram

B C D E F

30°

A
POLE → ■ ─ ANTENNA COUPLER ■ ←POLE
A

F E D C B

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 1390 ft. (424m)

6in-18in
(15cm-46cm) GROUND LEVEL

TYP. 12 PLACES

6ft. (2m)

(36)

(38)

(39)

SIDE VIEW