



# DIRECTIVE SYSTEMS

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## 1691 MHz Loop Yagi, Model 1844LY

### SPECIFICATIONS

Frequency Range:	1.65-1.71 GHz
Number of elements:	44
Boom Length:	108 inches
Boom diameter:	.75 inch
Mast diameter:	1 1/2 inch max.
Weight: (Shipping)	4 pounds
Connector:	Type N female
Gain:	20.0 dBi
3 dB Beamwidth (E Plane) :	= 16 °
F/B ratio:	>20 dB
Maximum Power:	400 W. average
Stacking distance:	18 inches vertical 20 inches horizontal

### ASSEMBLY INSTRUCTIONS

- 1) Unpack antenna and locate the hardware package. Antennas are shipped in three sections, in which case the booms connect between directors 15 and 16 as well as 28 and 29. Remove D16 and D28 from the middle boom section and slide the three boom pieces together. Note the boom markings for correct assembly order. Align the elements; replace D16 and D28 and retighten.
- 2) Attach the boom-to-mast bracket to the swivel bracket with the 1 1/4" X 8-32 hardware provided. The swivel bracket is attached at director 20. Attach the antenna to the mast with the U-bolt and saddle.
- 3) Attach the feed line and tape it to the bottom of the boom. The connector should be sealed with electronic grade RTV or equivalent. Don't forget to seal the area where the .141" semi rigid coaxial cable extends into the rear of the antenna connector.
- 4) Straighten any mis aligned elements and tighten hardware if necessary.
- 5) The antenna SWR has been adjusted for less than 1.2:1 at the factory. Additional tweaking can be accomplished by adjusting the distance between the driven element and R1 and D1, or by slightly adjusting the shape of the driven element.
- 6) If antennas are to be stacked, see "Instructions For Stacking Loop Yagis"
- 7) Enjoy your new antenna.