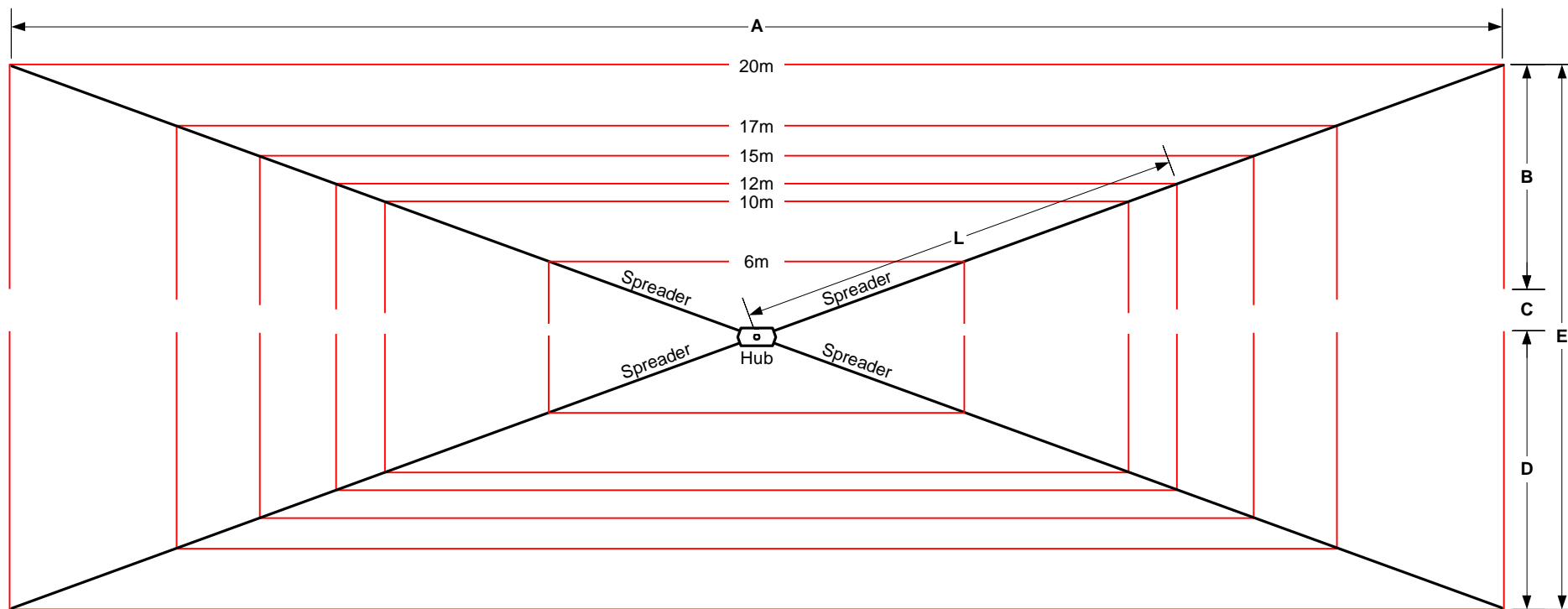


MoxBeam, #14AWG, 0.020" PVC Insulation

Band (Meters)	Elev. 1/2 WL (Feet)	Resonance (MHz)	Gain (dBi)	F/B (dB)	A (Inches)	B (Inches)	C (Inches)	D (Inches)	E (Inches)	L (Inches)	Total Spreader Length ² = (1.08*L)-1.5 (Inches)	Spreader Length & Number (Inches)
6	10	50.100	10.7	19.0	82.55	12.43	2.27	15.40	30.10	43.9	46	46, 4 ea
10	17.5	28.150	10.6	20.0	147.75	22.25	4.06	27.56	53.88	78.3	83	41.5, 8 ea
12	20	24.940	10.6	20.1	167.05	25.16	4.61	31.16	60.91	88.9	95	47.5, 8 ea
15	23	21.150	10.5	20.1	197.39	27.73	5.43	38.82	71.98	105.0	112	56, 8 ea
17	27	18.112	10.6	20.3	230.55	34.72	6.34	43.00	84.07	122.7	131	65.5, 8 ea
20	35	14.100	10.6	20.2	296.77	44.69	8.16	55.36	108.21	157.9	169	84.5, 8 ea

Notes

1. In general, increasing antenna elevation raises the resonant frequency and increases gain. For example, raising the 10m antenna to 25 ft. changes the resonance to 28.3 MHz, gain is 10.9 dBi, and F/B is 23 dB.
2. Dimension L equals the horizontal distance from the Hub center to the element corners. The Spreaders start 1" from the Hub center with 1/2" additional length added at the end by the Corner Clamps (1 + 0.5 = 1.5"). To achieve the required tension, the Spreaders are sized 8% longer than L.
3. 17m and 20m versions may require stiffer Spreaders: 3/4" OD for 17m, and 1" OD for 20m. Use 1/2" OD aluminum tubing & 3/4" fiberglass tubing adapters at the Hub, or enlarge the Hub Spreader holes to match the tubing.
4. Adjust the Balun height and cable length for each band as required.



Scale: 1/32:1