

MoxBeam (Elements: #14AWG, Insulation 0.015" PVC + 0.005" Nylon)																			
Decimal Inches																			
Band (Mtrs)	Antenna Dimensions						Spreader Lengths					Element Wire Lengths				Feed	Insulator		
	A (In)	B (In)	C (In)	D (In)	E (In)	1/2A+B (In)	A+2B (In)	A+2D (In)	L (In)	S (In)	S1 (1"OD) (In)	S2 (3/4"OD) (In)	S3 (1/2"OD) (In)	W1 (In)	W2 (In)	W1A (W1+7/16") (In)	W2A (W2+7/16") (In)	H (In)	C1 (In)
6	80.7500	12.1250	2.2500	15.0625	29.4375	52.5000	105.0000	110.8750	42.97	45	0	8.5	42.5	50.5625	110.0000	51.0000	110.4375	24	2.9375
10	147.2500	22.1875	4.0625	27.4375	53.6875	95.8125	191.6250	202.1250	78.35	83	0	61	28	93.8750	201.2500	94.3125	201.6875	30	4.7500
12	166.5000	25.1250	4.5000	31.0625	60.6875	108.3750	216.7500	228.6250	88.61	94	0	69	31	106.4375	227.7500	106.8750	228.1875	36	5.1875
15	196.7500	29.6250	5.4375	36.6875	71.7500	128.0000	256.0000	270.1250	104.70	112	0	82	36	126.0625	269.2500	126.5000	269.6875	42	6.1250
17	230.3750	34.7500	6.3125	42.9375	84.0000	149.9375	299.8750	316.2500	122.60	131	0	96	41	148.0000	315.3750	148.4375	315.8125	48	7.0000
20	296.2500	44.6250	8.1250	55.2500	108.0000	192.7500	385.5000	406.7500	157.64	169	96	59	26	190.8125	405.8750	191.2500	406.3125	52	8.8125

Feet-Fractional Inches																			
Band (Mtrs)	Antenna Dimensions						Spreader Lengths					Element Wire Lengths				Feed	Insulator		
	A (Ft-In)	B (Ft-In)	C (Ft-In)	D (Ft-In)	E (Ft-In)	1/2A+B (Ft-In)	A+2B (Ft-In)	A+2D (Ft-In)	L (Ft-In)	S (Ft-In)	S1 (1"OD) (Ft-In)	S2 (3/4"OD) (Ft-In)	S3 (1/2"OD) (Ft-In)	W1 (Ft-In)	W2 (Ft-In)	W1A (W1+7/16") (Ft-In)	W2A (W2+7/16") (Ft-In)	H (Ft-In)	C1 (Ft-In)
6	6'-8 3/4"	1'-0 1/8"	0'-2 1/4"	1'-3 1/16"	2'-5 7/16"	4'-4 1/2"	8'-9"	9'-2 7/8"	3'-6 15/16"	3'-9"	0'-0"	0'-8 1/2"	3'-6 1/2"	4'-2 9/16"	9'-2"	4'-3"	9'-2 7/16"	2'-0"	0'-2 15/16"
10	12'-3 1/4"	1'-10 3/16"	0'-4 1/16"	2'-3 7/16"	4'-5 11/16"	7'-11 13/16"	15'-11 5/8"	16'-10 1/8"	6'-6 5/16"	6'-11"	0'-0"	5'-1"	2'-4"	7'-9 7/8"	16'-9 1/4"	7'-10 5/16"	16'-9 11/16"	2'-6"	0'-4 3/4"
12	13'-10 1/2"	2'-1 1/8"	0'-4 1/2"	2'-7 1/16"	5'-0 11/16"	9'-0 3/8"	18'-0 3/4"	19'-0 5/8"	7'-4 9/16"	7'-10"	0'-0"	5'-9"	2'-7"	8'-10 7/16"	18'-11 3/4"	8'-10 7/8"	19'-0 3/16"	3'-0"	0'-5 3/16"
15	16'-4 3/4"	2'-5 5/8"	0'-5 7/16"	3'-0 11/16"	5'-11 3/4"	10'-8"	21'-4"	22'-6 1/8"	8'-8 11/16"	9'-4"	0'-0"	6'-10"	3'-0"	10'-6 1/16"	22'-5 1/4"	10'-6 1/2"	22'-5 11/16"	3'-6"	0'-6 1/8"
17	19'-2 3/8"	2'-10 3/4"	0'-6 5/16"	3'-6 15/16"	7'-0"	12'-5 15/16"	24'-11 7/8"	26'-4 1/4"	10'-2 9/16"	10'-11"	0'-0"	8'-0"	3'-5"	12'-4"	26'-3 3/8"	12'-4 7/16"	26'-3 13/16"	4'-0"	0'-7"
20	24'-8 1/4"	3'-8 5/8"	0'-8 1/8"	4'-7 1/4"	9'-0"	16'-0 3/4"	32'-1 1/2"	33'-10 3/4"	13'-1 5/8"	14'-1"	8'-0"	4'-11"	2'-2"	15'-10 13/16"	33'-9 7/8"	15'-11 1/4"	33'-10 5/16"	4'-4"	0'-8 13/16"

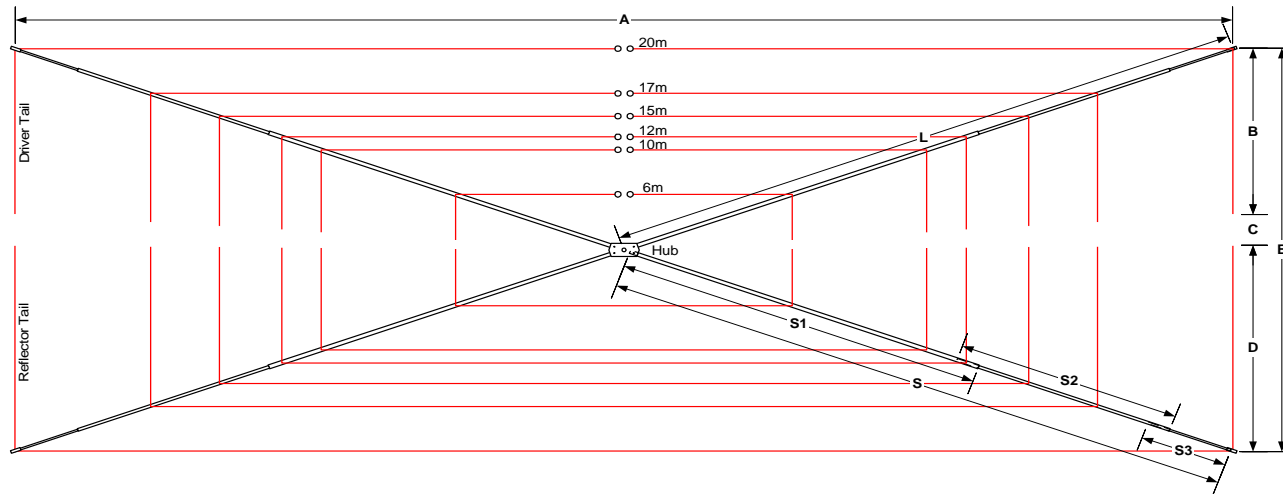


Table Definitions

- A = Antenna length
- B = Length of Driver Tail
- C = Driver/Reflector Tail spacing (tip-to-tip distance between ring terminals)
- D = Length of Reflector Tail
- E = Antenna width (Driver Tail + Driver/Reflector Tail spacing + Reflector Tail)
- 1/2A+B = One-half Driver (1/2 Antenna length + Driver Tail)
- A+2B = Total driver length (Antenna length + 2 Driver tails)
- A+2D = Total Reflector length (Antenna length + 2 Reflector Tails)
- L = Horizontal distance from Hub center to element corners
- S = Total Spreader length. Spreaders start 1-1/2" from Hub center, with 1/2" additional length added by the Corner Clamps (1.5" + 0.5" = 2"). To get the desired tension on the elements, the Spreaders are sized 8% longer than L.  $S = (L \cdot 1.08) - 2$ . (Note: Add 2" to S for the 20m spreaders due to the hub adapter.)
- S1 = Length of 1"OD Spreaders (Required on 20m only)
- S2 = Length of 3/4"OD Spreaders (includes 6" overlap of 3/4"OD tube inside 1"OD tube for 20m)
- S3 = Length of 1/2"OD Spreaders (includes 6" overlap of 1/2"OD tube inside 3/4"OD tube)
- W1 = One-half Driver wire length (actual wire length before adding ring terminals and Feedpoint)
- W2 = Reflector wire length (actual wire length before adding ring terminals)
- W1A = One-half Driver wire length + 7/16" (actual length after adding the first ring terminal)
- W2A = Reflector wire length + 7/16" (actual length after adding the first ring terminal)
- H = Distance of Feedpoint from Hub
- C1 = Length of Insulator material
- Feedpoint = Budwig center insulator trimmed to 5" width.