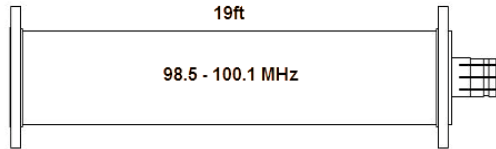
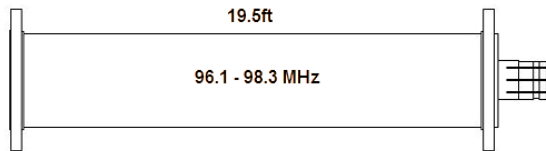
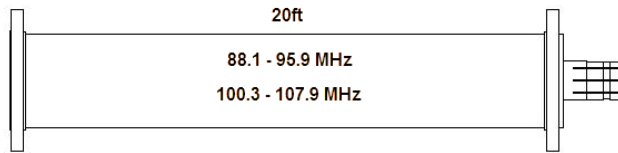


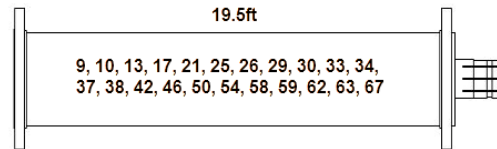
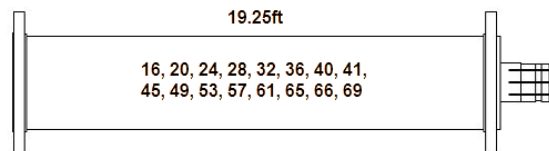
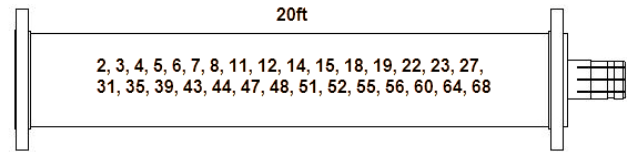


Straight Section Recommendations

Recommended FM Line Lengths



Recommended TV Line Lengths



Straight Section Electrical Specifications

Transmission Line Size	Upper Frequency Limit	Velocity of Propagation	Power Rating	VSWR
7/8 50Ω	6000 MHz	99.8% free space	41 kW	1.03:1
1 5/8" 50Ω	3000 MHz	99.8% free space	132 kW	1.03:1
3 1/8" 50Ω	1600 MHz	99.8% free space	440 kW	1.03:1
4 1/16" 50Ω	1262 MHz	99.8% free space	710 kW	1.03:1
6 1/8" 50Ω	806 MHz	99.8% free space	1536 kW	1.03:1
6 1/8" 75Ω	830 MHz	99.8% free space	1069 kW	1.03:1
8 3/16" 75Ω	704 MHz	99.8% free space	1825 kW	1.03:1
9 3/16" 75Ω	552 MHz	99.8% free space	3296 kW	1.03:1

Straight Section Mechanical Specifications

Transmission Line Size	Outer		Inner		Net Weight (lbs)	Windload		
	O.D.	I.D.	O.D.	I.D.		20'	19.75'	19.5'
7/8 50Ω	.875"	.785"	.343"	.290"	12	50.5	49.9	49.3
1 5/8" 50Ω	1.625"	1.572"	.664"	.585"	28	93.8	92.7	91.5
3 1/8" 50Ω	3.125"	3.027"	1.315"	1.231"	55	180.5	178.2	176
4 1/16" 50Ω	4.062"	3.935"	1.711"	1.631"	83	234.6	231.7	228.7
6 1/8" 50Ω	6.125"	5.981"	2.600"	2.520"	143	353.7	349.3	344.9
6 1/8" 75Ω	6.125"	5.981"	1.711"	1.631"	136	353.7	349.3	344.9
8 3/16" 75Ω	8.150"	8.000"	2.293"	2.213"	200	472.8	466.9	461
9 3/16" 75Ω	9.166"	9.000"	2.580"	2.500"	215	530.6	523.9	517.3