

# FREQUENCY BAND DESIGNATOR

FREQUENCY BANDS											
MILITARY RADAR	L	S	C	X	Ku	K	Ka			V	
<b>QUICK FREQUENCY</b>	4 GHz		12.4 GHz		18 GHz	30 GHz		35 GHz	40 GHz	45 GHz	60 GHz

## CABLE SELECTION GUIDE BY FREQUENCY SORTED BY MAX ATTENUATION & FAMILY (dB per 100 feet)

### LAB-FLEX® LOW-LOSS, FLEXIBLE

Lab-Flex® 290	6.3	9.1	13.1	16.4	20.5						
Lab-Flex® 335	6.7	9.8	14.5	18.4	23.4						
Lab-Flex® 200	11.3	16.5	24.1	30.3	38.3		47.6				
Lab-Flex® 160	15.8	22.7	33.0	41.6	51.6		63.5	69.0	75.4	81.6	
Lab-Flex® 125	22.3	31.9	39.5	57.1	71.0		86.9	94.1	102.5	110.5	118.4   125.4

### LAB-FLEX® S LOW-LOSS, FLEXIBLE, STRANDED CENTER CONDUCTOR

Lab-Flex® S 490S	5.0	7.5	11.3	13.0							
Lab-Flex® S 335SP	8.8	13.2	20.4	26.5	34.8						
Lab-Flex® S 235SP	14.4	20.7	30.2	37.7	47.4		58.5				
Lab-Flex® S 180SP	20.7	30.1	44.2	55.8	70.6		88.0	96.0	105.5	114.6	
Lab-Flex® S 115S	35.7	51.3	74.1	92.4	115.5		141.9	153.9	168.0	181.5	194.3   230.1

### SEMI-RIGID, LOW-LOSS

.250 Low-Loss	7.0	10.0	14.2	17.6	21.8	34.0					
.141 Low-Loss	15.9	22.8	32.9	40.8	50.9		62.4	67.5	73.7		
.085 Low-Loss	28.3	40.3	57.6	71.2	88.1		107.0	115.5	125.5	134.8	143.7   168.1

### SEMI-RIGID, CONFORMABLE® (BJ), FLEXIBLE VERSION (MINI-FLEX)

.250 Series (RG401)	10.4	16.1	25.5	33.9	45.5						
.141 Series (RG402)	16.5	24.8	37.9	49.0	64.0		82.2	90.7	101.1		
Mini-Flex 165	17.2	25.7	39.1	50.6	65.9						
.085 Series (RG405)	27.9	40.8	60.5	76.7	97.9		123.0	134.6	148.5	161.8	174.7   199.4
Mini-Flex 105	30.6	44.6	66.0	83.4	106.1						
.047 Series	47.8	68.9	100.3	125.5	157.6		194.7	211.6	231.7	250.8	269.1   286.7

### STANDARD FLEXIBLE

SF142	18.0	26.8	40.7	52.5	68.3						
RG142	18.9	28.1	42.5								
142D	24.7	37.8	59.4	78.2	104.0						
SF316	37.3	54.1	79.4	99.8	126.3						
RD316	37.6	54.6	80.0	100.6							
316D	39.0	57.1									

### LMR®

LMR®-400	6.3	9.0	10.8								
LMR®-240	11.5	16.6	20.4								

Note: There are several versions of frequency band allocations and this chart should be used as reference only.

To select a cable first determine the maximum frequency the cable assembly needs to operate at. Cables under that frequency are listed by lowest (dB) attenuation first.

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