FREQUENCY BAND DESIGNATOR



FREQUENCY BANDS												
MILITARY RADAR	L	S	C	Х	Ku	К		Ka			V	
QUICK FREQUENCY		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		23.4							
Lab-Flex [®] 200			24.1		38.3	47.6						
Lab-Flex® 160	15.8		33.0		51.6	63.5	69.0	75.4	81.6			
Lab-Flex [®] 125		31.9	39.5		71.0	86.9	94.1	102.5	110.5	118.4	125.4	
LAB-FLEX® \$ LOW-LOSS, FLEXIBLE, STRANDED CENTER CONDUCTOR												
Lab-Flex [®] \$ 490S	5.0			13.0								
Lab-Flex® \$ 335SP		13.2	20.4		34.8							
Lab-Flex® \$ 235SP			30.2		47.4	58.5						
Lab-Flex® \$ 180SP	20.7		44.2		70.6	88.0	96.0	105.5	114.6			
Lab-Flex® \$ 115S		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		10.0	14.2		21.8	34.0						
.141 Low-Loss			32.9		50.9	62.4	67.5	73.7				
.085 Low-Loss		40.3	57.6		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		25.5		45.5							
.141 Series (RG402)		24.8	37.9		64.0	82.2	90.7	101.1				
Mini-Flex 165		25.7	39.1		65.9							
.085 Series (RG405)		40.8	60.5		97.9	123.0	134.6	148.5	161.8	174.7	199.4	
Mini-Flex 105		44.6	66.0		106.1							
.047 Series		68.9	100.3	125.5	157.6	194.7	211.6	231.7	250.8	269.1	286.7	
STANDARD FLEXIBL												
SF142		26.8	40.7		68.3							
RG142	18.9		42.5									
142D	24.7		59.4		104.0							
SF316	37.3		79.4		126.3							
RD316		54.6	80.0	100.6								
316D	39.0	57.1		I								
		0.6	10.0		1							
LMR®-400	6.3		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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