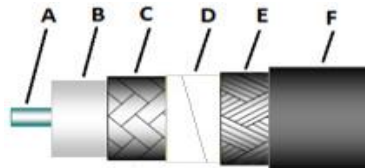


# CABLE SPECIFICATIONS

## Lab-Flex® 335



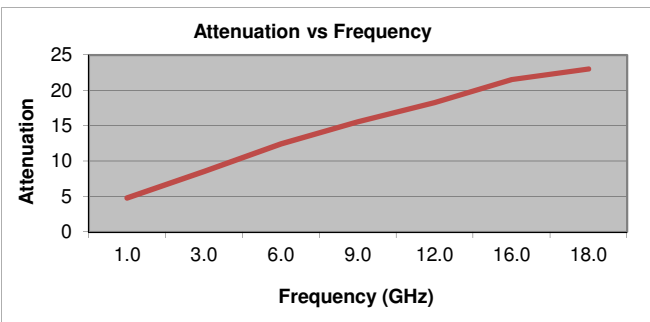
Lab-flex ® 335 is designed as a low loss replacement for Solid Dielectric cables such as RG214 & RG393. With 80% Velocity expanded PTFE dielectric, the Lab-Flex 335 cable has 40% lower loss than solid dielectrics of the same size.



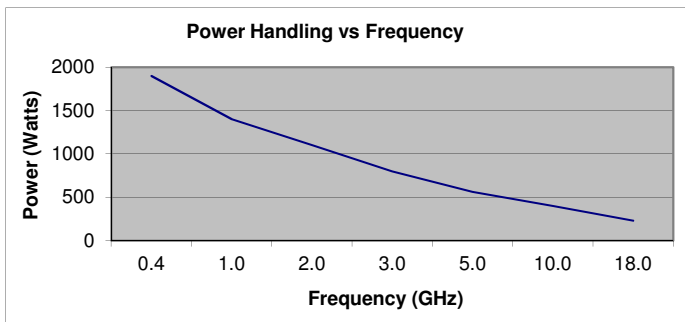
1.0 Electrical Data			
Frequency, Max (GHz)	18.0		
Impedance, nominal (Ω)	50		
Velocity of Propagation (%)	80		
Shielding Effectiveness, 18 GHz (dB/ft)	>-90dB		
Capacitance (pF/ft)	25		
Delay (ns/ft), (ns/meter)	1.27	4.17	
Attenuation k1 (db/100ft) @ 23 deg C	0.14612		Attenuation (Typical) at any Frequency =k1 x SqRt (FMHz) + k2 x (FMHz)
Attenuation k2 (db/100ft) @ 23 deg C	0.00019		

2.0 Mechanical/Environmental Data			
Weight (lbs/100ft), (Kg/100m)	8.50	12.78	
Temperature Range (°C)	-55 to +200*		
Minimum Bend Radius (inch), (mm)	2.00	50.80	

3.0 Construction Data			
Inner Conductor (inch)	A	-	Solid SPC
Dielectric (inch)	B	-	Expanded PTFE
First Outer Shield (inch)	C	-	Flat Braid SC
Second Outer Shield (inch)	D	-	Metalized Tape
Third Outer Shield (inch)	E	-	Round Braid SC
Jacket (inch O.D.)	F	0.335	FEP



(dB per 100 feet)



\*CW Power in watts at sea level and 23°C

Frequency GHz	1.0	3.0	10.0	12.0	16.0	18.0
Typical Loss dB/100ft	4.8	8.6	16.5	18.3	21.5	23.0

Frequency GHz	1.0	3.0	10.0	12.0	16.0	18.0
CW Power in Watts	1400.0	800.0	400.0	370.0	300.0	230.0

# CABLE SPECIFICATIONS

## Lab-Flex® 335



DATA SHEET PART SERIES: Lab-Flex® SHEET 2 OF 2 Revision 0916

### Standard Connectors:

Cable Code	Connector Code	Series	Gender	Type	C-Nut Style*	Body Material*	Body Finish*	Loss per GHz	Frequency Max GHz
335	SMS	SMA	(Male)	Straight	H	SS	P	0.012	18
335	SMR	SMA	(Male)	R/A	H	SS	P	0.023	18
335	SFBS	SMA	(Female) Bulkhead	Straight	N/A	SS	P	0.015	18
335	SFS	SMA	(Female)	Straight	N/A	SS	P	0.015	18
335	NMS	Type-N	(Male)	Straight	HK	SS	P	0.011	18
335	NMR	Type-N	(Male)	R/A	H	SS	P	0.02	18
335	NFBS	Type-N	(Female) Bulkhead	Straight	N/A	SS	P	0.015	18
335	NFS	Type-N	(Female)	Straight	N/A	SS	P	0.015	18
335	TMS	TNC	(Male)	Straight	H	SS	P	0.01	18
335	TMR	TNC	(Male)	R/A	H	SS	P	0.02	18
335	TFBS	TNC	(Female) Bulkhead	Straight	N/A	SS	P	0.015	18
335	TFS	TNC	(Female)	Straight	N/A	SS	P	0.015	18
335	SCMS	SC	(Male)	Straight	H	SS	P	0.01	10
335	SCMR	SC	(Male)	R/A	H	SS	P	0.02	10
335	SCFBS	SC	(Female)	Straight	N/A	SS	P	0.015	10

\* C-nut Style: H= Hex, K=Knurled, HK= Hex Nut & Knurled  
 \*Body Materials: B=Brass, SS=Stainless Steel, Be= Beryllium Copper  
 \*Body Finish: N= Nickel, S=Silver, G=Gold, P= Passivated, T= Tri-metal  
 Sex of connector is determined by center pin

### Standard Options:

Cable Code	Option Code	Option Description	Option Details
335	A	Phase Match	Standard Tolerance of +/-2.8PS
335	AW	RoHS Compliant	Per EU Directive 2002/95/EC
335	W	Weatherized	Weatherized Jacket (With Pel-Seal)
335	D/DD	Dust Cap one side/Both Sides	Dust Cap with 4" Chain
335	E/EE	Extended Booting One Side/ Both Sides	

\*for RoHS complaint assemblies (-ROHS) is required to be added to end of standard part number  
 ex. NMS-335-120.0-NMS-ROHS

\*for Phase Matched assemblies (+/-2.8ps) is required to be added to end of standard part number  
 ex. NMS-335-120.0-NMS +/-2.8ps

### Custom Options:

The above connectors and options the most common types used. Florida RF Labs offers a wide range of cables, connectors and options. If you do not see an option you require please consult the sales department.