

CABLE SPECIFICATIONS

Lab-Flex® 200UV

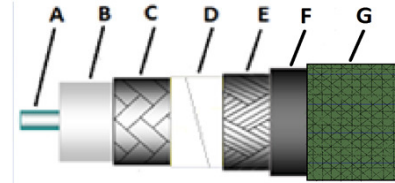


DATA SHEET PART SERIES: Lab-Flex®

SHEET 1 OF 2

Revision
0916

Lab-flex® 200UV cable is designed for Ultra-Low VSWR performance and high flexure applications due to the unique construction aspects that work to enhance flexure life.



1.0 Electrical Data

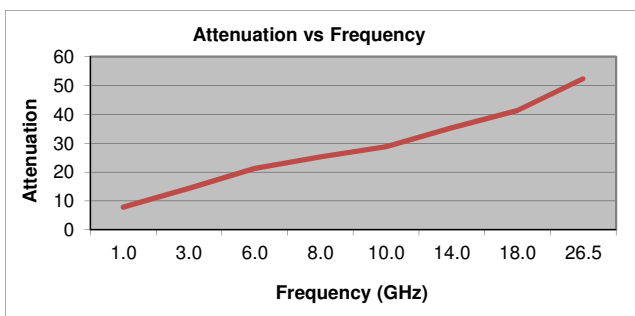
Frequency, Max (GHz)	26.5		
Impedance, nominal (Ω)	50		
Velocity of Propagation (%)	78		
Shielding Effectiveness, 18 GHz (dB/ft)	>-90dB		
Capacitance (pF/ft)	26		
Delay (ns/ft), (ns/meter)	1.3	4.268504	
Attenuation k1 (db/100ft) @ 23 deg C	0.23		Attenuation (Typical) at any Frequency =k1 x SqRt (FMHz) + k2 x (FMHz)
Attenuation k2 (db/100ft) @ 23 deg C	0.00058		

2.0 Mechanical/Environmental Data

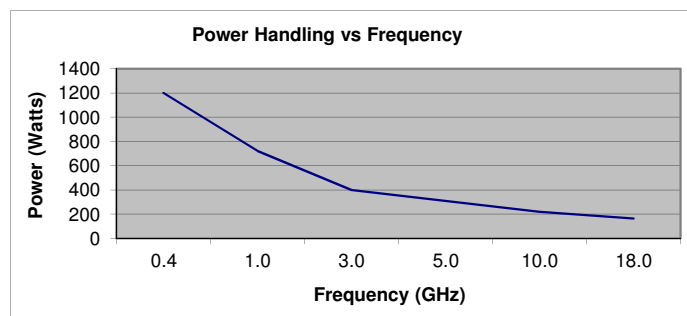
Weight (lbs/100ft), (Kg/100m)	5.60	8.42	
Temperature Range (°C)	-55 to +200		
Minimum Bend Radius (inch), (mm)	1.00	25.40	

3.0 Construction Data

Inner Conductor	A	-	Solid SPC
Dielectric	B	-	Expanded PTFE
First Outer Shield	C	-	SPC Flat Braid
Second Outer Shield	D	-	Carbon Teflon Tape
Third Outer Shield	E		SPC Round Braid
Jacket	F		FEP
Outer Braid (inch O.D.)	G	0.240	Nomex (Green with Blue Tracer)



(dB per 100 feet)



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

Frequency GHz	1.0	3.0	6.0	12.0	18.0	26.5
Typical Loss dB/100ft	7.8	14.3	21.3	32.2	41.4	52.9

Frequency GHz	0.4	1.0	3.0	5.0	10.0	18.0
CW Power in Watts	1200.0	720.0	400.0	310.0	220.0	165.0

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Lab-Flex® 200UV



Standard Connectors:

Cable Code	Connector Code	Series	Gender	Type	C-Nut Style*	Body Material*	Body Finish*	Loss per GHz	Frequency Max GHz
200UV	KMS	2.9mm	(Male)	Straight	H	SS	P	0.01	26
200UV	SMS	SMA	(Male)	Straight	H	SS	P	0.01	18
200UV	SMR	SMA	(Male)	Right Angle	H	SS	P	0.02	18
200UV	SFBS	SMA	(Female) Bulkhead	Straight	N/A	SS	P	0.015	18
200UV	SFS	SMA	(Female)	Straight	N/A	SS	P	0.015	18
200UV	NMS	Type-N	(Male)	Straight	HK	SS	P	0.011	18
200UV	NMR	Type-N	(Male)	Right Angle	H	SS	P	0.02	18
200UV	NFBS	Type-N	(Female) Bulkhead	Straight	N/A	SS	P	0.015	18
200UV	NFS	Type-N	(Female)	Straight	N/A	SS	P	0.015	18
200UV	TMS	TNC	(Male)	Straight	H	SS	P	0.01	18
200UV	TMR	TNC	(Male)	Right Angle	H	SS	P	0.02	18
200UV	TFBS	TNC	(Female) Bulkhead	Straight	N/A	SS	P	0.015	18
200UV	TFS	TNC	(Female)	Straight	N/A	SS	P	0.015	18

* 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
200UV	+/-2.8PS	Phase Match	Standard Tolerance of +/-2.8PS
200UV	RoHS	RoHS Compliant	Per EU Directive 2002/95/EC
200UV	A	Armor	SS interlock armor
200UV	W	Weatherized	Weatherized Jacket (With Pel-Seal)
200UV	AW	Armor/Weatherized	SS interlock armor with extruded PVC cover
200UV	D/DD	Dust Cap one side/Both Sides	
200UV	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-200UV-120.0-NMS-ROHS

*for phase matched assemblies (+/-2.8PS) is require to be added to the end of standard part number
ex. NMS-200UV-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.