

CABLE SPECIFICATIONS

LAB-FLEX® 160AF

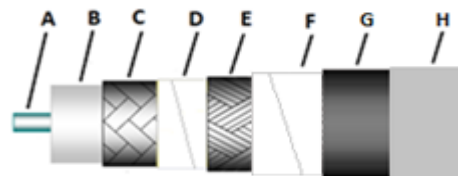


DATA SHEET PART SERIES: 160AF

SHEET 1 OF 2
Dwg: 1014245

EN 14-2479
Revision -

Lab-Flex® 160AF is designed for severe environment aircraft applications. It utilizes a low loss dielectric and incorporates a redundant moisture/vapor barrier to prevent moisture ingress into the cable, along with hermetically sealed, high performance connectors.



1.0 Electrical Data

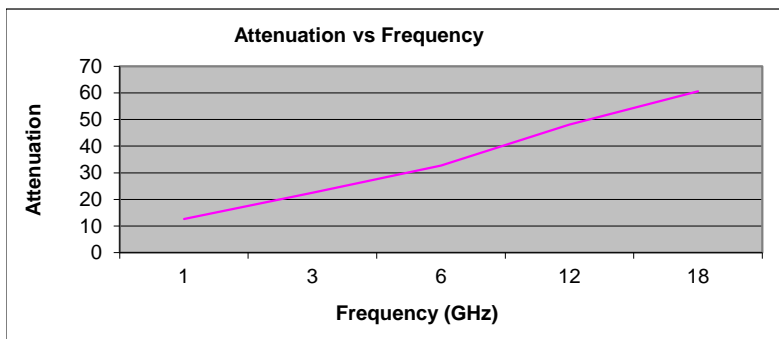
Frequency, Max (GHz)	18.0		
Impedance, nominal (Ω)	50		
Velocity of Propagation (%)	78%		
Shielding Effectiveness (dB/ft)	>90		
Capacitance (pF/ft)	26		
Delay (ns/ft), (ns/meter)	1.3	4.3	
Passive Intermodulation (dBc)			
Attenuation k1 (db/100ft) @ 23 deg C	12.07		Attenuation (typical) at any Frequency =k1 x SqRt (FMHz) + k2 x (FMHz)
Attenuation k2 (db/100ft) @ 23 deg C	0.052		

2.0 Mechanical/Environmental Data

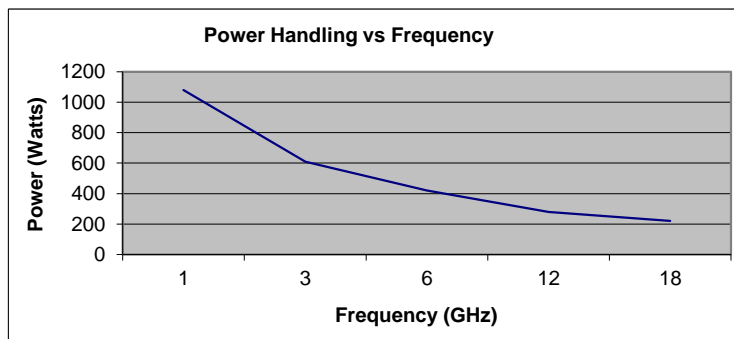
Weight (lbs/100ft), (Kg/100m)	3.80	5.71	
Temperature Range (°C)	-55 / +200		
Minimum Bend Radius (inch), (mm)	0.80	20.32	

3.0 Construction Data

Inner Conductor (inch)	A	Solid	0.036	Silver Plated Copper
Dielectric (inch)	B			Expanded PTFE
First Outer Shield (inch)	C			Flat Silver Plated Copper Braid
Second Outer Shield (inch)	D			Metalized Film Tape Interlayer
Third Outer Shield (inch)	E			Round Silver Plated Braid
Jacket (inch O.D.)	F			Extruded FEP
Vapor Barrier (P/N TBD)	G			Polyimid Adhesive lined Tape, 3 mils
Outer Braid	H		0.17	Abrasion Resistant Braid, Color Black,



(dB per 100 feet)



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

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Standard Connectors:

Cable Code	Connector Code	Series	Gender	Type	C-Nut Style*	Body Material*	Body Finish*	Loss per GHz	Frequency Max GHz
160AF	KMS	2.9 mm	(Male) plug	Straight	SS	SS	P	0.01	40
160AF	KFBS	2.9 mm	(Female) bulkhead	Straight	SS	SS	P	0.015	40
160AF	KFS	2.9 mm	(Female) jack	Straight	SS	SS	P	0.015	40
160AF	SMS	SMA	(Male) plug	Straight	SS	SS	P	0.01	18
160AF	SMR	SMA	(Male) plug	R/A	SS	SS	P	0.02	18
160AF	NMS	Type N	(Male) plug	Straight	SS	SS	P	0.01	18

Note: All AF series connectors are sealed and tested to 1 x 10⁻⁵ per MIL-T-81490, MIL-STD-202, Vapor Leakage

Standard Options:

Cable Code	Option Code	Option Description	Option Details
160AF	E	Extended Boots	
160AF	+/-2.8 PS	Phase Matching (+/- 2.8 picoseconds)	
160AF	D	Dust Caps	

Note: For RoHS compliant assemblies (-RoHS) is required to be added to end of standard part number
ex. NMS-290-120.0-NMS-RoHS

Custom Options:

The above connectors and options are the most common types used. Florida RF Labs offers a wide range of cables, connectors and options. If you do not see what you need please consult our Sales Department.