

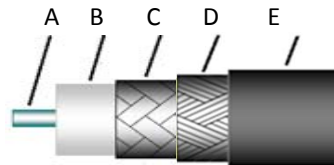
CABLE SPECIFICATIONS

Mini-Flex 065



DATA SHEET PART SERIES: Mini-Flex SHEET 1 OF 2

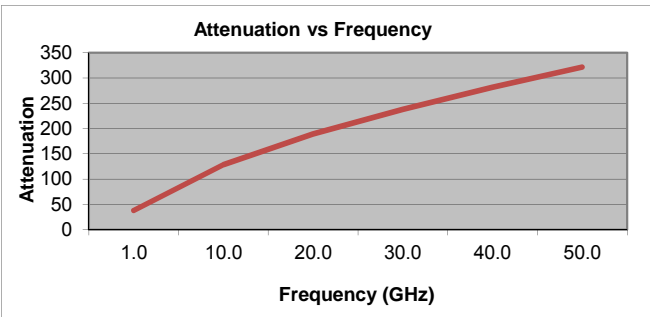
The Mini-Flex 065 is a high frequency, cost effective cable for applications requiring a stable, flexible cable and higher losses can be tolerated. A Helical inner shield provides >-85dB of shielding and lower loss than other cables with solid dielectric of the same size.



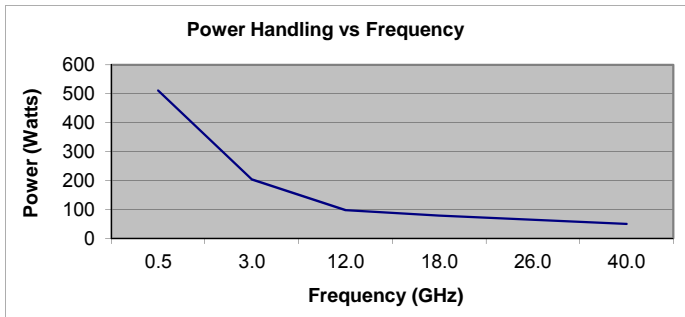
1.0 Electrical Data			
Frequency, Max (GHz)	50.0		
Impedance, nominal (Ω)	50		
Velocity of Propagation (%)	76		
Shielding Effectiveness, 18 GHz (dB/ft)	>-85dB		
Capacitance (pF/ft)	27		
Delay (ns/ft), (ns/meter)	1.34	4.399843	
Attenuation k1 (db/100ft) @ 23 deg C	1.014		Attenuation (Typical) at any Frequency =k1 x SqRt (FMHz) + k2 x (FMHz)
Attenuation k2 (db/100ft) @ 23 deg C	0.001		

2.0 Mechanical/Environmental Data			
Weight (lbs/100ft), (Kg/100m)	0.95	1.43	
Temperature Range (°C)	-65 to +165		
Minimum Bend Radius (inch), (mm)	0.30	7.62	

3.0 Construction Data			
Inner Conductor (inch)	A	-	Solid SCCS
Dielectric (inch)	B	-	Expanded PTFE
First Outer Shield (inch)	C	-	Flat Braid SPC
Second Outer Shield (inch)	D	-	Metalized Tape wrap
Jacket (inch O.D.)	E	0.063	ETFE



(dB per 100 feet)



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

Frequency GHz	1.0	18.0	26.0	32.0	40.0	50.0
Typical Loss dB/100ft	37.9	178.0	219.3	247.3	281.7	321.5

Frequency GHz	1.0	6.0	12.0	18.0	32.0	40.0
CW Power in Watts	359.0	141.0	97.0	78.0	57.0	50.0

CABLE SPECIFICATIONS

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DATA SHEET PART SERIES: Mini-Flex SHEET 2 OF 2

Standard Connectors:

Cable Code	Connector Code	Series	Gender	Type	C-Nut Style*	Body Material*	Body Finish*	Loss per GHz	Frequency Max GHz
065	SMS	SMA	(Male) Plug	Straight	H	SS	P	0.01	18
065	SFS	SMA	(Female) Jack	Straight	N/A	SS	P	0.015	18
065	SMPFS	SMP	(Female)	Straight	N/A	Be	G	0.03	40
065	SMPFR	SMP	(Female)	R/A	N/A	Be	G	0.04	40
065	GPPOFS	GPPO	(Female)	Straight	N/A	Be	G	0.03	50
065	GPPOFR	GPPO	(Female)	R/A	N/A	Be	G	0.04	50
065	SSMS	SSMA	(Male) Plug	Straight	H	SS	P	0.01	35
065	SSMR	SSMA	(Male) Plug	R/A	H	SS	P	0.02	35

* 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
065	+/-2.8PS	Phase Match	Standard Tolerance of +/-2.8PS
065	RoHS	RoHS Compliant	Per EU Directive 2002/95/EC

*for RoHS complaint assemblies (-ROHS) is required to be added to end of standard part number
ex. SMS-065-06.0-GPPOFS-ROHS

*for phase matched assemblies (+/-2.8PS) is require to be added to the end of standard part number
ex. SMS-065-06.0-GPPOFS +/-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.