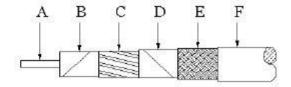
047 Cable Specifications



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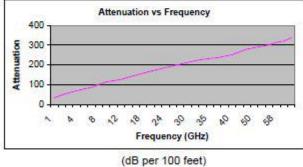
.047 diameter Semi-Rigid cable is often used as an interconnect without connectors. The exposed center conductor and outer jacket are soldered directly to the circuits being connected. Several subminiature connectors also mate well with this diameter and are used where space is at a premium and high loss can be tolerated.

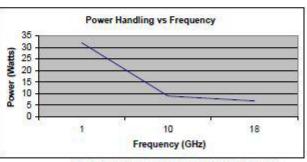


be tolerated.			
Electrical Data	4.		0.6
Frequency, Max (GHz)	65.0		
Impedance, nominal (Ω)	50	8	
Velocity of Propagation (%)	69.5	N.	
Shielding Effectiveness, 1 GHz (dB/ft)	>100		
Capacitance (pF/ft)	29.5		
Delay (ns/ft), (ns/meter)	1.463	4.80	ATTENDED TO STATE OF THE STATE
Attenuation k1 (db/100ft) @ 23 deg C	1.014	-	Attenuation (typical) at any Frequency
Attenuation k2 (db/100ft) @ 23 deg C	0.0012		=k1 x SqRt (FMHz) + k2 x (FMHz)

Mechanical Data			
Weight (lbs/100ft), (Kg/100m)	0.45	0.68	
Temperature Range (°C)	-40 to 100		
Minimum Bend Radius (inch), (mm)	0.15	3.76	

Construction Data				11 - 11
Inner Conductor (inch)	Α	Solid	0.011	Silver Covered Copper Clad Steel
Dielectric (inch)	В		0.037	Solid Polyetrafluoroethylene
First Outer Shield (inch)	С		0.047	Bare Copper
Second Outer Shield (inch)	D		98	
Third Outer Shield (inch)	E			
Jacket (inch O.D.)	F		0.047	None





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

QUICK SPEC

Loss @ 5 GHz	Cable Diameter	Shielding Effect.
20.5 dB	0.047"	>100

047 Cable Specifications



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SHEET 2 OF 2

Standard Connectors:

Cable Code	Connector Code	Series	Gender		Туре	C-Nut Style*	Body Material*	Body Finish*	Loss per GHz	Frequency Max GHz
047	SMMPFS	GPPO (SM	(Female) ja	ack	Straight	NA	Be	G	0.015	50
047	SMPFS	GPO (SMF	(Female) ja	ack	Straight	NA	Be	G	0.015	40
047	SMPFR	GPO (SMF	(Female)	Market Control	R/A	NA	Be	G	0.025	40
047	SMS	SMA	(Male) p	olug	Straight	Н	В	G	0.02	8
047	SFS	SMA	(Female) ja	ack	Straight	NA	В	G	0.02	8
047	TRIM	No Conn	ector (Ends 1	Trimmed)		88 III	20		ê <u> </u>	

^{*} C-Nut Style: H=Hex Nut, K=Knurled, HK=Hex Nut & Knurled

Sex of the connector is determined by center pin.

Standard Options:

047 RP Phase Matched in sets Cable matched to each other	Cable Code		Option Description	Option Details
	047	7 W	Weatherized Protective Covering	Polyolefin shrink tube cover
047 AP Phase Matched to an electrical length Absolute electrical length +	047	7 RP	Phase Matched in sets	Cable matched to each other to +/- 2.8PS
	047	7 AP	Phase Matched to an electrical length	Absolute electrical length +/- 2.8PS
047 RoHS RoHS Compliant Cable Assembly per EU directive 2002/95/E0	047	7 RoHS	RoHS Compliant Cable Assembly	per EU directive 2002/95/EC

Standard Product is not RoHS compliant

For RoHS complaint assemblies (-ROHS) is required to be added to end of standard part number ex. SMS-047-12.0-SMS-ROHS

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 what you need please consult the factory.

QUICK SPEC

Loss @ 5 GHz	Cable Diameter	Shielding Effect.
20.5 dB	0.047"	>100

^{*} Body Materials: B=Brass, SS=Stainless Steel, BE=Beryllium Copper

^{*} Body Finish: N=Nickel, S=Silver, G=Gold, P=Passivated, T=Tri-Metal