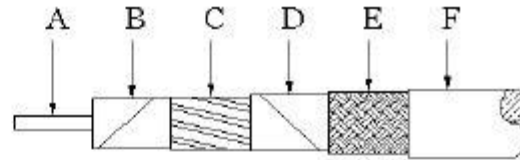


BJ047 Cable Specifications

DOCUMENT No: CABLE-BJ047

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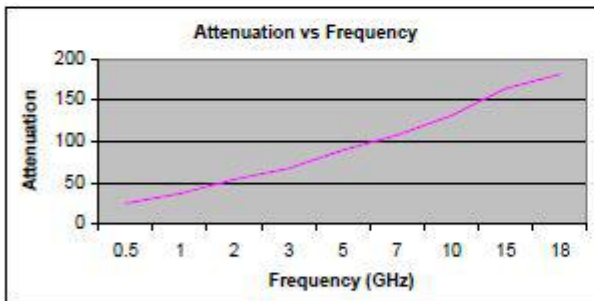
BJ047 cable is an ideal replacement for Semi-Rigid cable because of the ability to shape without the jacket cracking. The normal operating frequency is DC to 18 GHz. The frequency range can be extended to 65 GHz by pre-screening the raw cable. BJ047W cable is also available, which includes polyolefin jacket covering for weatherized cable protection.



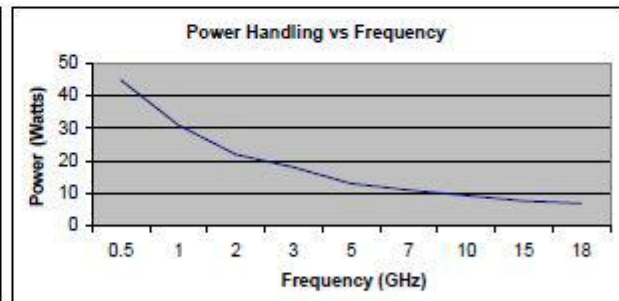
Electrical Data			
Frequency, Max (GHz)	18.0		
Impedance, nominal (Ω)	50		
Velocity of Propagation (%)	69.5		
Shielding Effectiveness, 1 GHz (dB/ft)	>90		
Capacitance (pF/ft)	29.5		
Delay (ns/ft), (ns/meter)	1.46	4.79	
Attenuation k1 (db/100ft) @ 23 deg C	1.018		Attenuation (typical) at any Frequency =k1 x SqRt (FMHz) + k2 x (FMHz)
Attenuation k2 (db/100ft) @ 23 deg C	0.0012		

Mechanical Data			
Weight (lbs/100ft), (Kg/100m)	0.38	0.56	
Temperature Range (°C)	-70 to 200		
Minimum Bend Radius (inch), (mm)	0.12	3.05	

Construction Data				
Inner Conductor (inch)	A	Solid	0.011	Silver Plated Copper Covered Steel
Dielectric (inch)	B		0.340	Tetrafluoroethylene
First Outer Shield (inch)	C			Copper Foil
Second Outer Shield (inch)	D		0.047	Tin-Filled Composite
Third Outer Shield (inch)	E			
Jacket (inch O.D.)	F		0.047	Unjacketed



(dB per 100 feet)



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

QUICK SPEC

Max Frequency	Loss @ 5 GHz	Cable Diameter	Shielding Effect.
18 GHz	89 dB	0.047"	>90

BJ047 Cable Specifications

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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
BJ047	SMMPFS	GPPO (SM	(Female) jack	Straight	NA	Be	G	0.015	18
BJ047	SMPFS	GPO (SMF	(Female) jack	Straight	NA	Be	G	0.015	18
BJ047	SMPFR	GPO (SMF	(Female)	R/A	NA	Be	G	0.025	12
BJ047	SMS	SMA	(Male) plug	Straight	H	B	G	0.02	8
BJ047	SFS	SMA	(Female) jack	Straight	NA	B	G	0.02	8

* C-Nut Style: H=Hex Nut, 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 the connector is determined by center pin.

Standard Options:

Cable Code	Option Code	Option Description	Option Details
BJ047	W	Weatherized Protective Covering	Polyolefin shrink tube cover
BJ047	RP	Phase Matched in sets	Cable matched to each other to +/- 2.8PS
BJ047	AP	Phase Matched to an electrical length	Absolute electrical length +/- 2.8PS
BJ047	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-BJ047-12.0-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

Max Frequency	Loss @ 5 GHz	Cable Diameter	Shielding Effect.
18 GHz	89 dB	0.047"	>90