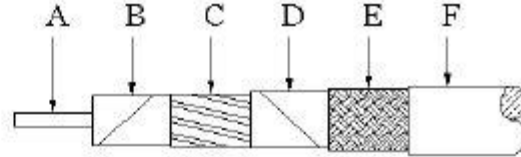


BJ085 Cable Specifications

DOCUMENT No: CABLE-BJ085

SHEET 1 OF 2
REV -

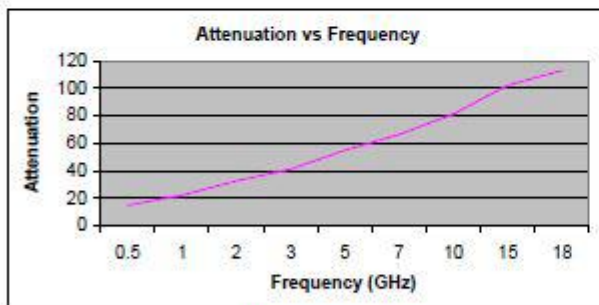
BJ085 is recognized as a cost savings replacement for .086 Semi-Rigid. This cable eliminates the need for costly detailed drawings. BJ085W cable is also available, which includes a polyolefin jacket covering of the cable.



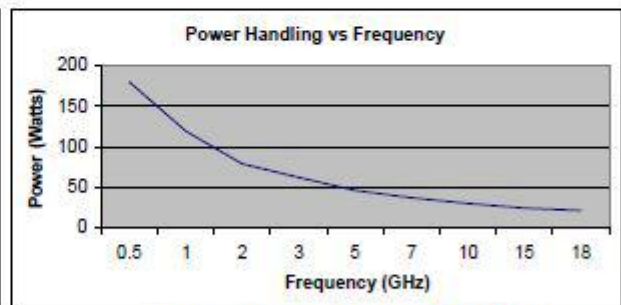
Electrical Data			
Frequency, Max (GHz)	40.0		
Impedance, nominal (Ω)	50		
Velocity of Propagation (%)	69.5		
Shielding Effectiveness, 1 GHz (dB/ft)	>90		
Capacitance (pF/ft)	29.5		
Delay (ns/ft), (ns/meter)	1.46	4.79	
Attenuation k1 (db/100ft) @ 23 deg C	0.6		Attenuation (typical) at any Frequency =k1 x SqRt (FMHz) + k2 x (FMHz)
Attenuation k2 (db/100ft) @ 23 deg C	0.0012		

Mechanical Data			
Weight (lbs/100ft), (Kg/100m)	1.19	1.79	
Temperature Range ($^{\circ}$ C)	-70 to 200		
Minimum Bend Radius (inch), (mm)	0.12	3.05	

Construction Data				
Inner Conductor (inch)	A	Solid	0.020	Silver Plated Copper Covered Steel
Dielectric (inch)	B		0.062	Tetrafluoroethylene
First Outer Shield (inch)	C			Copper Foil
Second Outer Shield (inch)	D		0.085	Tin-Filled Composite
Third Outer Shield (inch)	E			
Jacket (inch O.D.)	F		0.085	Unjacketed



(dB per 100 feet)



*CW Power in watts at sea level and 23 $^{\circ}$ C

QUICK SPEC

Max Frequency	Loss @ 5 GHz	Cable Diameter	Shielding Effect.
40 GHz	55 dB	0.085"	>90

BJ085 Cable Specifications

DOCUMENT No: CABLE-BJ085

SHEET 2 OF 2
REV -

Standard Connectors:

Cable Code	Connector Code	Series	Gender	Type	C-Nut Style*	Body Material*	Body Finish*	Loss per GHz	Frequency Max GHz
BJ085	SMPFS	GPO (SMP)	(Female) jack	Straight	N/A	Be	G	0.01	40
BJ085	SMPFR	GPO (SMP)	(Female) jack	R/A	N/A	Be	G	0.01	40
BJ085	SMS	SMA	(Male) plug	Straight	H	SS	G	0.01	26
BJ085	SMSR ²	SMA	(Male) plug	R/A	H	SS	G	0.01	26
BJ085	SMR	SMA	(Male) plug	R/A	H	SS	G	0.015	12
BJ085	SMSAT ¹	SMA	(Male) plug	Straight	H	SS	G	0.01	18
BJ085	SFS	SMA	(Female) jack	Straight	N/A	SS	G	0.01	18
BJ085	SFBS	SMA	(Female) Bulkhead	Straight	N/A	SS	G	0.01	18
BJ085	OSSPMBBS	OSSP	(Female) Bulkhead	Straight	N/A	SS	G	0.01	18
BJ085	OSPMBS	OSP	(Male) Bulkhead	Straight	H	SS	G	0.01	18
BJ085	NMS	TYPE N	(Male) plug	Straight	H	B	N	0.01	12
BJ085	NFBS	TYPE N	(Female) Bulkhead	Straight	N/A	B	N	0.01	12
BJ085	TMS	TNC	(Male) plug	Straight	H	B	N	0.01	12
BJ085	TMR	TNC	(Male) plug	R/A	H	B	N	0.01	12
BJ085	TFBS	TNC	(Female) Bulkhead	Straight	N/A	B	N	0.01	12
BJ085	MCXMR	MCX	(Male) plug	R/A	H	B	G	0.015	6
BJ085	MCXMS	MCX	(Male) plug	Straight	H	B	G	0.01	6
BJ085	MMCXMS	MMCX	(Male) plug	Straight	H	B	G	0.01	6
BJ085	MMCXMR	MMCX	(Male) plug	R/A	H	B	G	0.015	6
BJ085	SMBFS	SMB	(Female) jack	Straight	N/A	B	G	0.01	4
BJ085	BMS	BNC	(Male) plug	Straight	H	B	G	0.01	4
BJ085	BFBS	BNC	(Female) Bulkhead	Straight	N/A	B	G	0.01	4

* 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
SMSSAT¹ = Anti-Torque

² = Connector pre-bent cable to form right angle

Sex of the connector is determined by center pin.

Standard Options:

Cable Code	Option Code	Option Description	Option Details
BJ085	W	Weatherized Protective Covering	Polyolefin shrink tube cover
BJ085	RP	Phase Matched in sets	Cable matched to each other to +/- 2.8PS
BJ085	AP	Phase Matched to an electrical length	Absolute electrical length +/- 2.8PS
BJ085	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-BJ085-12.0-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.
40 GHz	55 dB	0.085"	>90