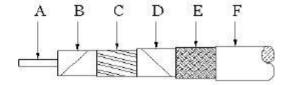
BJ141 Cable Specifications



DOCUMENT No: CABLE-BJ141

SHEET 1 OF 2

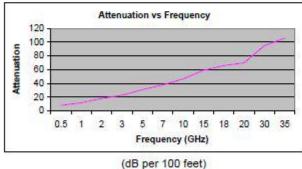
BJ141 cable is the most popular size in the hand-formable cable group. This is used throughout the industry as a low cost assembly that delivers high performance. There is a very slight penalty in loss and shielding when compared to .141 Semi-Rigid but BJ141 does not require detailed bending drawings.

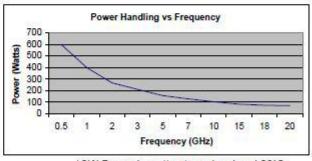


Electrical Data			
Frequency, Max (GHz)	35.0	520	
Impedance, nominal (Ω)	50	8	
Velocity of Propagation (%)	69.5	00	-6
Shielding Effectiveness, 1 GHz (dB/ft)	>90		
Capacitance (pF/ft)	29.5	XA	20
Delay (ns/ft), (ns/meter)	1.46	4.79	
Attenuation k1 (db/100ft) @ 23 deg C	0.34		Attenuation (typical) at any Frequency
Attenuation k2 (db/100ft) @ 23 deg C	0.0012		=k1 x SqRt (FMHz) + k2 x (FMHz)

Mechanical Data			
Weight (lbs/100ft), (Kg/100m)	2.00	3.01	
Temperature Range (°C)	-70 to 200	NO. 10	
Minimum Bend Radius (inch), (mm)	0.25	3.35	

Construction Data					
Α	Solid	0.036	Silver Plated Copper Covered Steel		
В		0.116	Tetrafluoroethylene		
С			Copper Foil		
D		0.141	Tin-Filled Composite		
E		100000000000000000000000000000000000000	A STATE OF THE STATE OF T		
F		0.141	Unjacketed		
	С	B C	B 0.116 C 0.141 E 0.141		





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

QUICK SPEC

Max Frequency	Loss @ 5 GHz	Cable Diameter	Shielding Effect.
35 GHz	31 dB	0.141	>90

BJ141 Cable Specifications



DOCUMENT No: CABLE-BJ141

SHEET 2 OF 2 REV -

Standard Connectors:

Cable Code	Connector Code	Series	Gender		Туре	C-Nut Style*	Body Material*	Body Finish*	Loss per GHz	Frequency Max GHz
BJ141	KMS	2.9 mm	(Male)	plug	Straight	Н	SS	G	0.007	35
BJ141	KMSR ²	2.9 mm	(Male)	plug	R/A	Н	SS	G	0.007	35
BJ141	KFS	2.9 mm	(Female)	jack	Straight	N/A	SS	G	0.015	35
BJ141	SMS	SMA	(Male)	plug	Straight	Н	G	G	0.007	18
BJ141	SMSR ²	SMA	(Male)	plug	R/A	H	SS	G	0.007	18
BJ141	SMR	SMA	(Male)	plug	R/A	Н	SS	G	0.015	12
BJ141	SFS	SMA	(Female)	jack	Straight	N/A	SS	G	0.010	18
BJ141	SFBS	SMA	(Female)	Bulkhead	Straight	N/A	SS	G	0.015	18
BJ141	SMSAT1	SMA	(Male)	plug	Straight	H	SS	G	0.010	18
BJ141	OSPMBS	OSP	(Male)	Bulkhead	Straight	Н	SS	G	0.010	18
BJ141	NMS	TYPE N	(Male)	plug	Straight	HK	В	T	0.015	18
BJ141	NMSR ²	TYPE N	(Male)	plug	R/A	HK	В	T	0.015	18
BJ141	NFBS	TYPE N	(Female)	Bulkhead	Straight	N/A	SS	Р	0.015	18
BJ141	TMS	TNC	(Male)	plug	Straight	Н	SS	G	0.015	18
BJ141	TMSR ²	TNC	(Male)	plug	R/A	H	SS	G	0.015	18
BJ141	TMR	TNC	(Male)	plug	R/A	H	SS	G	0.020	18
BJ141	TFBS	TNC	(Female)	Bulkhead	Straight	N/A	SS	G	0.015	18
BJ141	TFS	TNC	(Female)	jack	Straight	N/A	В	G	0.020	12
BJ141	MCXMR	MCX	(Male)		R/A	Н	В	G	0.015	6
BJ141	BMS	BNC	(Male)	plug	Straight	H	В	N	0.010	4
BJ141	BFBS	BNC	(Female)	Bulkhead	Straight	N/A	В	N	0.010	4

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

Sex of the connector is determined by center pin.

Note: many standard small length assemblies with SMA plugs in stock.

Standard Options:

Cable Code	Option Code	Option Description	Option Details
BJ141	W	Weatherized Protective Covering	Polyolefin shrink tube cover
BJ141	RP	Phase Matched in sets	Cable matched to each other to +/- 2.8PS
BJ141	AP	Phase Matched to an electrical length	Absolute electrical length +/- 2.8PS
BJ141	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-BJ141-12.0-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

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Max Frequency	Loss @ 5 GHz	Cable Diameter	Shielding Effect.		
35 GHz	31 dB	0.141	>90		

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

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

^{2 =} Connector pre-bent cable to form right angle