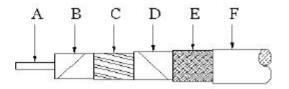
RG142 Cable Specifications M17/60-RG142



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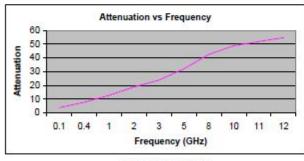
This group of cable includes familiar RG cable part numbers that have been superseded by MIL-C-17 numbers and alternative custom cable with improved electrical performance over standard M17 cables. The cables have been grouped by outside diameter. All standard cables supplied by Florida Rf Labs are purchased to the MIL-C-17 specification and no longer carry the RG designation.

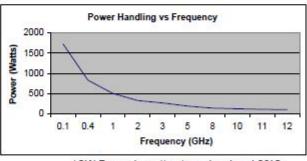


Electrical Data						
Frequency, Max (GHz)	12.4	141	20			
Impedance, nominal (Ω)	50	8				
Velocity of Propagation (%)	69.5	03				
Shielding Effectiveness, 1 GHz (dB/ft)	>60	V.0				
Capacitance (pF/ft)	29.4	48	RA .			
Delay (ns/ft), (ns/meter)	1.463	4.80				
Attenuation k1 (db/100ft) @ 23 deg C	0.368		Attenuation (typical) at any Frequency			
Attenuation k2 (db/100ft) @ 23 deg C	0.0012		=k1 x SqRt (FMHz) + k2 x (FMHz)			

Mechanical Data	0.877		
Weight (lbs/100ft), (Kg/100m)	4.30	6.46	
Temperature Range (°C)	-55 to 200		
Minimum Bend Radius (inch), (mm)	1.00	25.40	

Construction Data			4.0	
Inner Conductor (inch)	Α	Solid	0.037	Silver Covered Copper Clad Steel
Dielectric (inch)	В	Solid	0.116	Polyetrafluoroethylene
First Outer Shield (inch)	С	- 1	0.162	36SC
Second Outer Shield (inch)	D		-	5
Third Outer Shield (inch)	E			
Jacket (inch O.D.)	F		0.195	Fluorinated Ethylene Propylene - IX





(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.		
12.4 GHz	32 dB	0.195"	>60		

RG142 Cable Specifications M17/60-RG142



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Standard Connectors:

Cable Code	Connector Code	Series	Gender		Туре	C-Nut Style*	Body Material*	Body Finish*	Loss per GHz	Frequency Max GHz
RG142	SMS	SMA	(Male)	plug	Straight	Н	SS	Р	0.010	12.4
RG142	SMR	SMA	(Male)	plug	Straight	Н	SS	Р	0.015	12.4
RG142	SFS	SMA	(Female)	jack	R/A	NA	SS	G	0.010	12.4
RG142	SFBS	SMA	(Female)	Bulkhead	Straight	NA	SS	G	0.012	12.4
RG142	NMS	TYPE N	(Male)	plug	Straight	HK	В	Т	0.010	12.4
RG142	NMR	TYPE N	(Male)	plug	R/A	Н	В	Т	0.015	12.4
RG142	NFBS	TYPE N	(Female)	Bulkhead	Straight	NA	В	Т	0.012	12.4
RG142	NFS	TYPE N	(Female)	jack	Straight	NA	В	Т	0.010	12.4
RG142	TMS	TNC	(Male)	plug	Straight	Н	В	Т	0.010	12.4
RG142	TMR	TNC	(Male)	plug	R/A	Н	В	Т	0.015	12.4
RG142	TFBS	TNC	(Female)	Bulkhead	Straight	NA	В	Т	0.012	12.4
RG142	TFS	TNC	(Female)	jack	Straight	NA	В	N	0.010	8
RG142	BMS	BNC	(Male)	plug	Straight	NA	В	N	0.010	4
RG142	BMR	BNC	(Male)	plug	R/A	NA	В	N	0.015	4
RG142	BFBS	BNC	(Female)	Bulkhead	Straight	NA	В	N	0.012	4
RG142	BFS	BNC	(Female)	jack	Straight	NA	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.

Standard Options:

Standard	options.		
Cable Code	Option Code	Option Description	Option Details
RG142	E	Extended Boots	Layered adhesive lined polyolenfin shrink tubing
RG142	P	Phase Matched in sets	Cable matched to each other to +/- 2.8PS
RG142	AP	Phase Matched to an electrical length	Absolute electrical length +/- 2.8PS

Standard RG142 assemblies are RoHS compliant

per EU directive 2002/95/EC

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.
12.4 GHz	32 dB	0.195"	>60

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

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