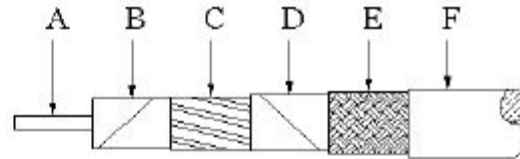


402TP Cable Specifications M17/130-00005

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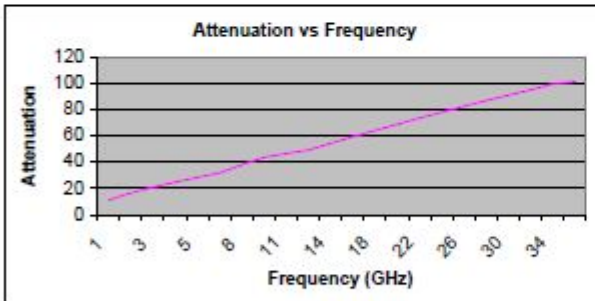
Semi-Rigid 141 offers high performance to 35 GHz with moderate insertion loss. The .141 diameter size cable works well with high frequency connectors such as 2.9mm, BMA and SMA connectors. Florida RF Labs offers assemblies bent to your specifications with a wide range of connectors.



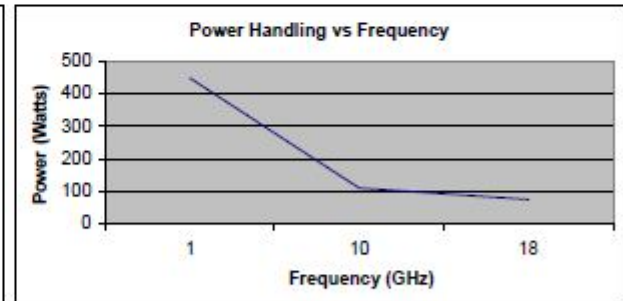
Electrical Data			
Frequency, Max (GHz)	35.0		
Impedance, nominal (Ω)	50		
Velocity of Propagation (%)	69.5		
Shielding Effectiveness, 1 GHz (dB/ft)	>100		
Capacitance (pF/ft)	29.9		
Delay (ns/ft), (ns/meter)	1.454	4.77	
Attenuation k1 (db/100ft) @ 23 deg C	0.316		Attenuation (typical) at any Frequency =k1 x SqRt (FMHz) + k2 x (FMHz)
Attenuation k2 (db/100ft) @ 23 deg C	0.0012		

Mechanical Data			
Weight (lbs/100ft), (Kg/100m)	3.44	5.17	
Temperature Range ($^{\circ}$ C)	-40 to 125		
Minimum Bend Radius (inch), (mm)	0.15	3.68	

Construction Data				
Inner Conductor (inch)	A	Solid	0.036	Silver Covered Copper Clad Steel
Dielectric (inch)	B	Solid	0.119	Polytetrafluoroethylene
First Outer Shield (inch)	C		0.141	Tin Plated Copper Tube
Second Outer Shield (inch)	D			
Third Outer Shield (inch)	E			
Jacket (inch O.D.)	F		0.141	None



(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.
35 GHz	28 dB	0.141"	>100

402TP Cable Specifications M17/130-00005

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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
402TP	KMS	2.9 mm	(Male) plug	Straight	H	SS	G	0.007	35
402TP	KMSR ²	2.9 mm	(Male) plug	R/A	H	SS	G	0.007	35
402TP	KFS	2.9 mm	(Female) jack	Straight	N/A	SS	G	0.015	35
402TP	SMS	SMA	(Male) plug	Straight	H	G	G	0.007	18
402TP	SMSR ²	SMA	(Male) plug	R/A	H	SS	G	0.007	18
402TP	SMR	SMA	(Male) plug	R/A	H	SS	G	0.015	12
402TP	SFS	SMA	(Female) jack	Straight	N/A	SS	G	0.010	18
402TP	SFBS	SMA	(Female) Bulkhead	Straight	N/A	SS	G	0.015	18
402TP	SMSAT ¹	SMA	(Male) plug	Straight	H	SS	G	0.010	18
402TP	OSPMBS	OSP	(Male) Bulkhead	Straight	H	SS	G	0.010	18
402TP	NMS	TYPE N	(Male) plug	Straight	HK	B	T	0.015	18
402TP	NMSR ²	TYPE N	(Male) plug	R/A	HK	B	T	0.015	18
402TP	NFBS	TYPE N	(Female) Bulkhead	Straight	N/A	SS	P	0.015	18
402TP	TMS	TNC	(Male) plug	Straight	H	SS	G	0.015	18
402TP	TMSR ²	TNC	(Male) plug	R/A	H	SS	G	0.015	18
402TP	TMR	TNC	(Male) plug	R/A	H	SS	G	0.020	18
402TP	TFBS	TNC	(Female) Bulkhead	Straight	N/A	SS	G	0.015	18
402TP	TFS	TNC	(Female) jack	Straight	N/A	B	G	0.020	12
402TP	MCXMR	MCX	(Male)	R/A	H	B	G	0.015	6
402TP	BMS	BNC	(Male) plug	Straight	H	B	N	0.010	4
402TP	BFBS	BNC	(Female) Bulkhead	Straight	N/A	B	N	0.010	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

SMSAT¹ = 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
402TP	W	Weatherized Protective Covering	Polyolefin shrink tube cover
402TP	RP	Phase Matched in sets	Cable matched to each other to +/- 2.8PS
402TP	AP	Phase Matched to an electrical length	Absolute electrical length +/- 2.8PS
402TP	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-402TP-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.
35 GHz	28 dB	0.141"	>100