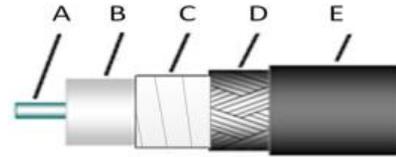


# CABLE SPECIFICATIONS

## Titan Flex 170



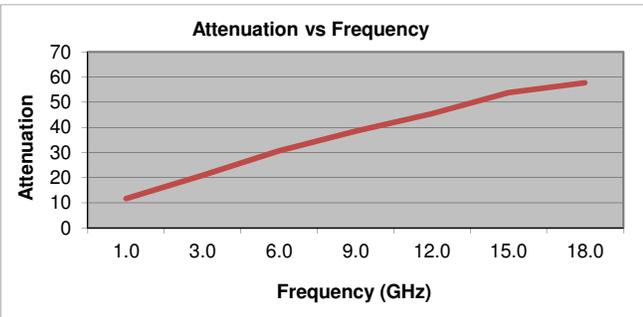
Titan Flex T170 accomodates many standard connector interfaces that might typically be used on RG type assemblies. However, the major advantages are higher shielding, lower insertion loss and superior strength exhibited by its connector retention. The Titan-Flex ® is ideal for those looking for a high quality cable at an economical pricing point.



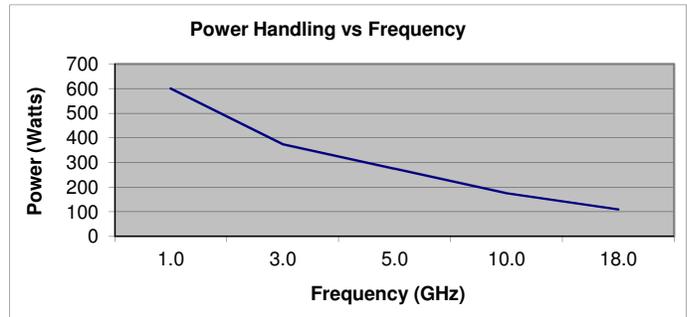
1.0 Electrical Data			
Frequency, Max (GHz)	18.0		
Impedance, nominal (Ω)	50		
Velocity of Propagation (%)	70		
Shielding Effectiveness, 18 GHz (dB/ft)	>-90dB		
Capacitance (pF/ft)	29.4		
Delay (ns/ft), (ns/meter)	1.45	4.761024	
Attenuation k1 (db/100ft) @ 23 deg C	0.34695		Attenuation (Typical) at any Frequency =k1 x SqRt (FMHz) + k2 x (FMHz)
Attenuation k2 (db/100ft) @ 23 deg C	0.000621		

2.0 Mechanical/Environmental Data			
Weight (lbs/100ft), (Kg/100m)	3.10	4.66	
Temperature Range (°C)	-55 to +200		
Minimum Bend Radius (inch), (mm)	0.80	20.32	

3.0 Construction Data			
Inner Conductor (inch)	A	-	Solid SCCS
Dielectric (inch)	B	-	Solid PTFE
First Outer Shield (inch)	C	-	Spiral Wrap SPC
Second Outer Shield (inch)	D	-	Flat Braided SPC
Jacket (inch O.D.)	F	0.163	Blue FEP



(dB per 100 feet)



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

Frequency GHz	0.4	1.0	3.0	5.0	12.0	18.0
Typical Loss dB/100ft	7.2	11.6	20.9	27.6	45.5	57.7

Frequency GHz	1.0	3.0	5.0	10.0	18.0
CW Power in Watts	600.0	375.0	275.0	175.0	110.0

# CABLE SPECIFICATIONS

## Titan Flex 170



### Standard Connectors:

Cable Code	Connector Code	Series	Gender	Type	C-Nut Style*	Body Material*	Body Finish*	Loss per GHz	Frequency Max GHz
T170	SMS	SMA	(Male)	Straight	H	SS	G	0.01	18
T170	SFS	SMA	(Female)	Straight	N/A	SS	G	0.015	18
T170	SMR	SMA	(Male)	R/A	H	SS	G	0.02	18
T170	NMS	Type-N	(Male)	Straight	H	B	T	0.011	12
T170	NMR	Type-N	(Male)	R/A	H	B	T	0.02	12
T170	NFBS	Type-N	(Female) Bulkhead	Straight	N/A	B	T	0.015	12
T170	TMS	TNC	(Male)	Straight	K	B	G	0.011	8
T170	TMR	TNC	(Male)	R/A	K	B	G	0.02	8
T170	TFBS	TNC	(Female) Bulkhead	Straight	N/A	B	G	0.015	8
T170	BMS	BNC	(Male)	Straight	B	B	N	0.015	2

\* C-nut Style: H= Hex, K=Knurled, HK= Hex Nut & Knurled, B= Bayonet

\*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 connector is determined by center pin

### Standard Options:

Cable Code	Option Code	Option Description	Option Details
T170	+/-2.8PS	Phase Match	Standard Tolerance of +/-2.8PS
T170	RoHS	RoHS Compliant	Per EU Directive 2002/95/EC
T170	D/DD	Dust Cap one side/Both Sides	
T170	E/EE	Extended Booting One Side/ Both Sides	

\*for RoHS complaint assemblies (-ROHS) is required to be added to end of standard part number  
ex. NMS-T170-120.0-NMS-ROHS

\*for phase matched assemblies (+/-2.8PS) is require to be added to the end of standard part number  
ex. NMS-T170-120.0-NMS+/-2.8PS

### 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 an option you require please consult the sales department.