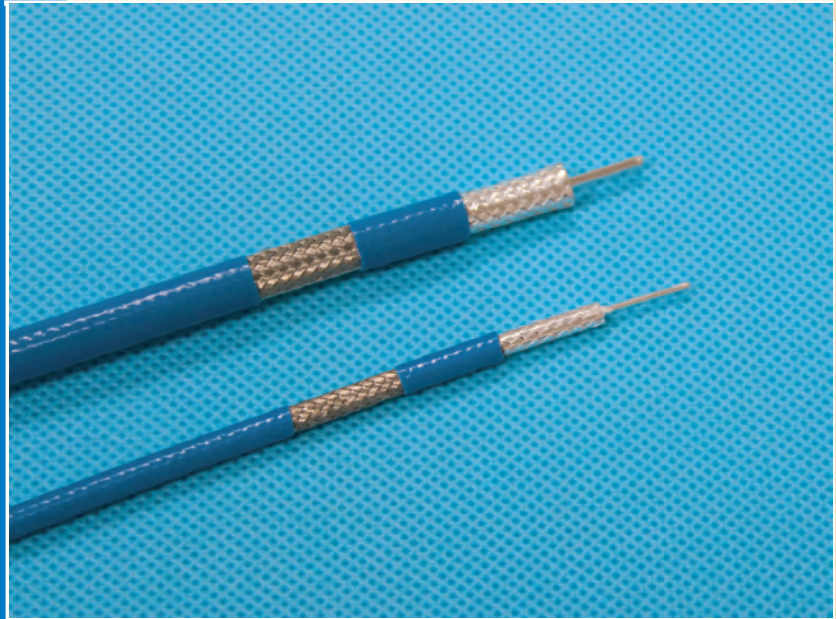


TFT-LF™

*Cost Effective
Flexible Alternative to
Solder Braid for
Commercial Applications
including, Low Loss
Microwave and Wireless
Base Station Interconnection.*



*IM3 (all interfaces aside from QMA and SMA):
-160 dBc (static and dynamic) with two +43
dBm carriers*

*IM3 (SMA only):
-160 dBc (static and dynamic) with two +33 dBm
carriers*

*IM3 (QMA only):
-160 dBc (static only) with two +33 dBm carriers*

*TFT-LF cable meets the UL-910 plenum
requirements, and is type CMP listed and
marked (UL/CSA) per UL file #E-170516*

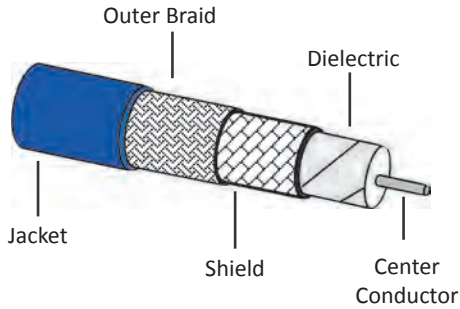
TFT-LF is a better performing alternative to semi-flexible (solder braid) coax for interconnects in commercial RF and microwave systems. Unlike solder braid cables, TFT-LF cable's flat braid outer conductor is not susceptible to cracking when bent, allowing for installation in tight spaces without performance degradation. Compared to standard RG cables, the flat braid provides much better shielding and lower attenuation. The FEP jacket provides excellent protection in corrosive environments and is highly resistant to UV making these cables suitable for outdoor installation.

TFT-LF cables are CMP (plenum) rated and provide better than -160 dBc PIM performance when properly terminated, making them ideal for interconnects in cellular base stations and DAS coverage systems.

Features & Benefits:

- Low Passive Intermodulation Distortion (PIM)
- UL910 plenum rated satisfying building code requirements
- Stable Loss, Phase and VSWR vs. Flexing
- Extremely Flexible, Low Minimum Bend Radius
- Lower loss than standard semi-rigid
- Uses Standard Solder-on Semi-rigid Connectors
- Good Shielding Effectiveness

TFT-LF™ Specifications:



Cable Construction:

- Center Conductor: Bare Copper
- Dielectric: Taped PTFE
- Shield: Tin Plated Copper Flat Braid
- Outer Braid: Tin Plated Copper Braid
- Jacket: Blue FEP

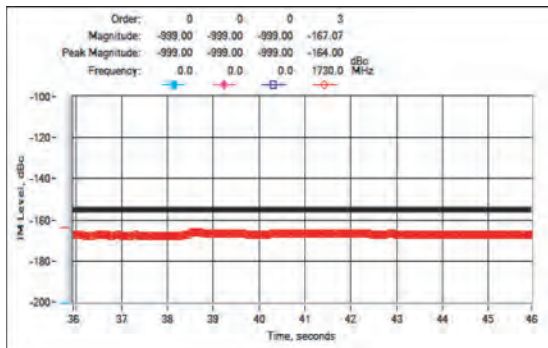
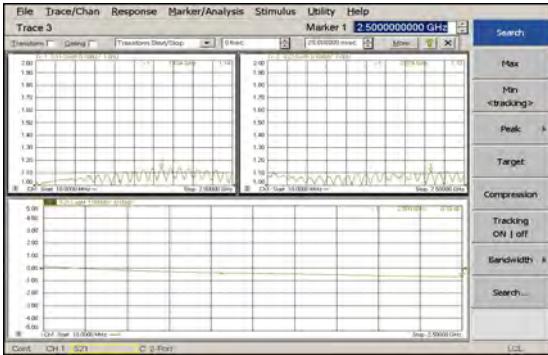
Connectors:

Low PIM connectors are available with interfaces of N, SMA and 7-16 DIN. Please consult Times Microwave Systems with your requirements.

Cable Assemblies:

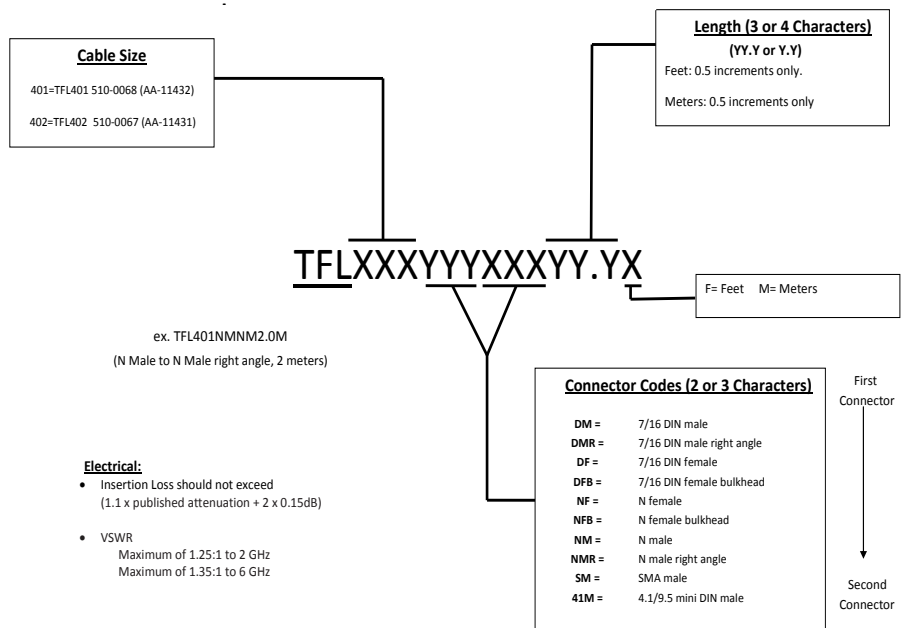
Times Microwave Systems provides TFT-LF™ cable assemblies by custom configurations, factory tested for dynamic and static PIM performance, insertion loss and VSWR. Below are some typical test reports.

TFL402DMDM1.0M



	TFT-401-LF		TFT-402-LF	
AA Drawing Number	AA-11432		AA-11431	
Physical Specifications				
Dimensions	in	(mm)	in	(mm)
Center Conductor	0.064	1.63	0.037	0.94
Dielectric	0.208	5.28	0.113	2.87
Shield	0.218	5.54	0.121	3.07
Outer braid	0.240	6.10	0.138	3.51
Jacket	0.265	6.73	0.160	4.06
Mechanical Specifications				
Bend Radius	1.375	34.93	0.750	19.05
Weight	78 lbs/1000ft		31 lbs/1000ft	
Operating Temperature Range	-55 to +150°C		-55 to +150°C	
Electrical Specifications				
Impedance	50 Ohms		50 Ohms	
Velocity of Propagation	72%		76%	
Capacitance	28.2 pf/ft		26.7 pf/ft	
Shielding Effectiveness	-80 dB		-80 dB	
Nominal Attenuation: dB/100ft (100m) (+25°C Ambient)				
30 MHz	1.20	3.90	1.90	6.30
150 MHz	2.80	9.10	4.50	14.6
450 MHz	5.00	16.5	8.10	26.5
900 MHz	7.60	24.9	11.9	39.2
2000 MHz	12.3	40.3	19.1	62.6
2500 MHz	14.1	46.2	21.8	71.6
3000 MHz	15.8	51.8	24.7	81.0
Power (kW) (+25°C Ambient; Sea Level)				
30 MHz	5.19		3.52	
150 MHz	2.29		1.52	
450 MHz	1.30		0.84	
900 MHz	0.90		0.57	
2000 MHz	0.59		0.36	
2500 MHz	0.52		0.31	
3000 MHz	0.43		0.28	

Smart Part Number Key for TFL Low PIM



Many assembly configurations are available from stock.
Refer to the on-line Price List for specific configurations.



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