# TFTM Low PIM Coaxial Cables

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### Flexible, Low PIM, Plenum Rated Jumper Cable Assemblies

- -160 dBc PIM for optimal system performance
- UL listed, type CMP (plenum) UL file #E-170516
- Flat Braid outer conductor construction for optimal flexibility
- Durable FEP outer jacket is suitable For both indoor and outdoor use

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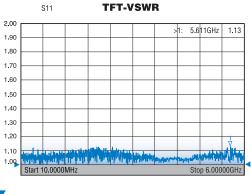


#### TFT-401 (0.265") & TFT-402 (0.160") 50 Ohm low PIM cable assemblies

- Available in any required connector configuration and length
- Large selection of standard configurations for quick delivery
- Check inventory at StockCheck on our website
- Available connector interfaces: SMA, N, 7-16 DIN, 4.1/9.5, 4.3/10.0 DIN
- 100% tested for static and dynamic PIM, VSWR and inserion loss
- Marker band includes Serial Number PIM, VSWR & IL test data which is retained and accessible on the Times website
- 10 year warranty

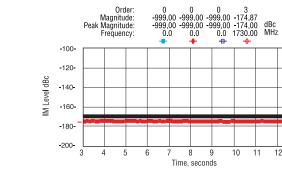
**Dynamic PIM Test Results** 

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Typical VSWR

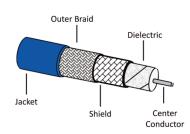
**TFT401NMNM5.0M** 





# TFT<sup>TM</sup> Low PIM Coaxial Cables

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#### **Cable Construction**

Center Conductor: Silver plated copper Dielectric: Taped PTFE Shield: Silver plated flat braid Outer Braid: Silver plated copper Jacket: Blue FEP

#### **Connectors**

Low PIM connectors are available with interfaces of N, SMA, 7-16 DIN, 4.1/9.5 mini DIN and 4.3/10.0 mini DIN. Please consult Times Microwave Systems with your requirements.

#### Cable Assemblies

TFT<sup>TM</sup> cable assemblies of standard configuration are available in stock, and are factory tested for dynamic and static PIM, IL and VSWR. In addition, Times Microwave Systems also provides customized TFT<sup>TM</sup> cable assemblies according to the special requirements.

- Jumpers available in any length with most popular connector combinations.
- iBwave VEX files available at <u>www.iBwave.com</u>

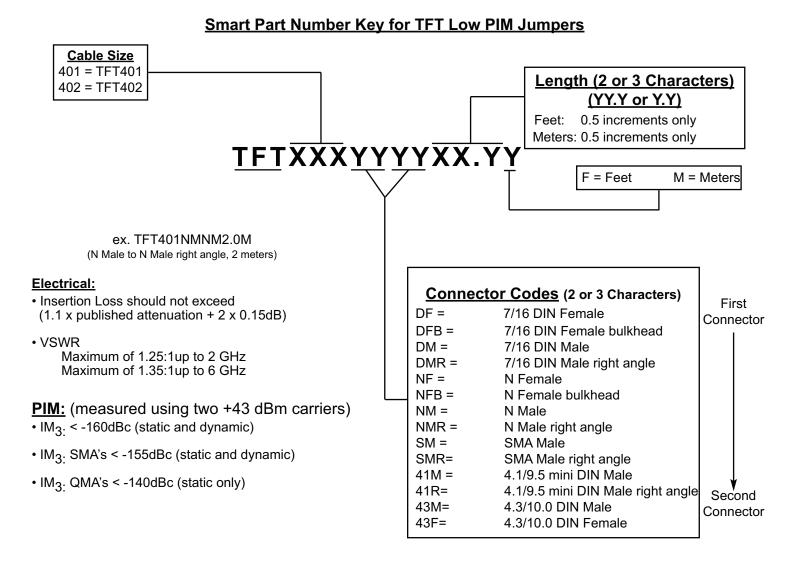


Physical Specifications	TFT-401		TFT-402		
AA Drawing Number:	AA-11410		AA-11408		
Dimensions:	in	(mm)	in	(mm)	
Center Conductor:	0.0641	1.628	0.037	0.93	
Dielectric:	0.208	5.28	0.113	2.87	
Shield:	0.218	5.53	0.121	3.07	
Outer Braid:	0.240	6.09	0.138	3.51	
Jacket:	0.265	6.73	0.160	4.06	
Mechanical Specifications					
Bend Radius:	0.75 19.05		0.75 19.05		
Weight:	78 lbs	78 lbs/1000 ft		31 lbs/1000 ft	
Operating Temperature Range °C/°F	-55 to +150° C		-55 to +150° C		
<b>Electrical Specifications</b>					
Velocity of Propagation: %	72%		76%		
Impedance: Ohms	50 Ohms		50 Ohms		
Capacitance: pF/ft (pF/m)	28.2 pf/ft		26.7 pf/ft		
Shielding Effectiveness: dB	-80	-80 dB		-80 dB	
Nominal Attenuation: dB/100 ft (100m) (Power kW)					
450 MHz	4.8 (15	5.8) 0.95	7.4 (24	4.2) 0.45	
700 MHz		2.2) 0.75		0.3) 0.36	
850 MHz 1900 MHz	•	2.2) 0.68	· ·	3.5) 0.33	
2100 MHz		4.4) 0.44 5.3) 0.41		0.4) 0.22 3.1) 0.21	
2300 MHz		3.2) 0.41 3.2) 0.39		5.6) 0.20	
2400 MHz		9.1) 0.38		5.8) 0.19	
4900 MHz		3.7) 0.25		2.1) 0.13	
5800 MHz	19.7 (64	4.7) 0.25	27.3 (8	9.6) 0.12	
N Male Straight	TC-TFT401-NM-LP (3190-2943BLK)		TC-TFT402-NM-LP (3190-2943BLK)		
N Male Right Angle	TC-TFT401-NM-RA-LP (3190-3057BLK)		TC-TFT402-NM-RA-LP (3190-3015BLK)		
	TC-TFT401-NF-LP		TC-TFT402-NF-LP		
N Female	(3190-3060BLK)		(3190-3004BLK)		
N Female Bulkhead			TC-TFT402-NF-BH-LP (3190-3013BLK)		
	TC-TFT401-716M-LP		TC-TFT402-716M-LP		
7-16 DIN Male Straight	(3190-2944BLK)		(3190-2942BLK)		
	TC-TFT401-716M-RA-LP (3190-3058BLK)		TC-TFT402-716M-RA-LP		
7-16 DIN Male Right Angle			(3190-2967BLK)		
7-16 DIN Female Straight			TC-TFT402-716F-LP (3190-3003BLK)		
	TC-TFT4	TC-TFT401SM-LP		TC-TFT402-SM-LP	
SMA Male Straight	(3190-2941BLK) TC-TFT401-SM-RA-LP		(3190-2903BLK TC-TFT402SM-RA-LP		
SMA Male Right Angle		-SM-RA-LP 8059BLK)		2SM-RA-LP 059BLK)	
	TC-TFT401-4195M-LP		TC-TFT402-4195M-LP		
4.1/9.5 mini DIN Male Straight	3190-3008BLK TC-TFT401-4195M-RA-LP			009BLK)	
4.1/9.5 mini DIN Male Right Angle	(3190-6127BLK)				
4.1/9.5 mini DIN Female	TC-TFT401-4195MF-LP (3190-6126BLK)		TC-TFT402-4195F-LP (3190-6184BLK)		
4.3/10.0 DIN Male Straight	TC-TFT401-4310M-LP (3190-6171BLK)		TC-TFT405-4310M-LP (3190-6125BLK)		
4.3/10.0 DIN Male Right Angle	TC-TFT401 4310M-RS-LP (3190-6172BLK)		TC-TFT402-4310M-RA-LP (3190-6173BLK)		
	, , , , , , , , , , , , , , , , ,		TC-TFT402-4310F-LP (3190-6195)		
4.1/9.5 mini DIN Female				4310F-BH-LP	
4.1/9.5 mini DIN Female Bulkhead				196BLK)	

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## **TFT<sup>TM</sup> Low PIM Coaxial Cables**

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Many assembly configurations are available from stock. Refer to the on-line <u>StockCheck</u> for specific configurations.



## **TFT<sup>TM</sup> Low PIM Coaxial Cables**

### About TIMES MICROWAVE SYSTEMS

Times Microwave Systems, was founded in 1948 as the Times Wire and Cable Company. Today, the company specializes in the design and manufacture of high performance flexible, semi-flexible and semi-rigid coaxial cable, connectors and cable assemblies. With over 60 years of leadership in the design, development, and manufacture of coaxial products for defense microwave systems, Times Microwave Systems is the acknowledged leader, offering high tech solutions for today's most demanding applications.

Cable assemblies from Times Microwave Systems are used as interconnects for microwave transmitters, receivers, and antennas on airframes, missiles, ships, satellites, and ground based communications systems, and as leads for test and instrumentation applications.

As a highly specialized and technically focused company, Times Microwave Systems has been able to continually meet the challenges of specialty engineered transmission lines for both the military and commercial applications, drawing upon our:

- Thousands of unique cable and connector designs
- Exceptional RF and microwave design capability
- Precise material and process controls
- Unique in-house testing capabilities including RF shielding/leakage, vibration, moisture/vapor sealing, phase noise and flammability
- Years of MIL-T-81490, MIL-C-87104, and MIL-PRF-39012 experience
- ISO 9001 Certification
- AS-9100 Certification

In 2010, Times Microwave Systems introduced its Times-Protect<sup>™</sup> line of lightning and surge protection solutions to address the challenging needs of wireless systems in the 21st century.

With over 60 years of Times Microwave Systems aerospace cable and connector technology experience and unparalleled design expertise, Times Microwave Systems' staff of Field Applications Engineers can help to provide the right solution for your interconnect applications.



World Headquarters: 358 Hall Avenue, Wallingford, CT 06492 • Tel: 203-949-8400, 1-800-867-2629 Fax: 203-949-8423 International Sales: +1 203-949-8503 • +1 800-867-2629 China Sales: TMC Building 4, No. 318 Yuanshan Road, Xinzhuang Industrial Park, Shanghai, China 201108 Tel: 86-21-5176-1209 Fax: 86-21-64424098 www.timesmicrowave.com

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