

# PE-TC151 Series Phase Stable Test Cable SMA Male to SMA Male to 18 GHz .RoHS



# RF Cable Assemblies Technical Data Sheet

PE3TC0301

# Configuration

Connector 1: SMA MaleConnector 2: SMA MaleCable Type: PE-TC151

#### **Features**

- · Phase and Amplitude stability with flexure
- Small Diameter Lighter weight lower profile for high density test applications
- Phase change with flexure +/-5° to 18 GHz
- Excellent for multi-port test equipment
- Very flexible and durable cable with a min bend radius of 0.75 inches
- Excellent VSWR and Insertion Loss
- Extra strain relief for extended connector body with booting enhance stability and longevity
- · Each Serialized assembly come with matching Test data
- 5,000 mating cycles when properly matted
- . IN STOCK and ready to ship

# **Applications**

- Automated RF Test Stations
- General Purpose Lab Testing
- High Connection Density Lab and Production testing

### **Description**

Pasternack's high performance PE-TC151 series Test Cables are designed to allow customers to perform repeatable accurate measurements. Because these cables are phase stable under flexure, +/- 5° at 18 GHz, they are an excellent option for testing where movement will occur during testing. The PE-TC151 test cables have low Insertion Loss and low VSWR in addition to having excellent phase stability properties. The rugged design provides for up to 5,000 mattings cycles with proper care. The smaller diameter coax allows for high flexibility, lower profile and a lighter weight test cable. The PE-TC151 series test cables are an excellent choice for use in precision high density test environments

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.3:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		28.8 [94.49]		pF/ft [pF/m]
Phase Stability with Flexure		±5		Degrees

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: PE-TC151 Series Phase Stable Test Cable SMA Male to SMA Male to 18 GHz ,RoHS PE3TC0301

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com



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#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	6	12	18			GHz
Insertion Loss (Max.)	0.44	0.66	0.85			dB/ft
	[1.44]	[2.17]	[2.79]			[dB/m]
VSWR (Max.)	1.3:1	1.3:1	1.3:1			
Power Handling (Max.)	55	29	20			Watts

### **Mechanical Specifications**

#### **Cable Assembly**

One Time Minimum Bend Radius

Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Shield Layer 3

**Jacket Material** Jacket Diameter 0.75 in [19.05 mm]

PE-TC151 50 Ohms Solid

Copper, Silver

**PTFE** 

Silver Plated Copper Braid Silver Plated Copper Tape Silver Plated Copper Braid

Polyurethane

0.151 in [3.84 mm]

#### Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	SMA Male	
Impedance	50 Ohms	50 Ohms	
Connection Method	Standard	Standard	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Dielectric Type	PTFE	PTFE	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	

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# **Environmental Specifications**

**Temperature** 

Operating Range

-65 to +90 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

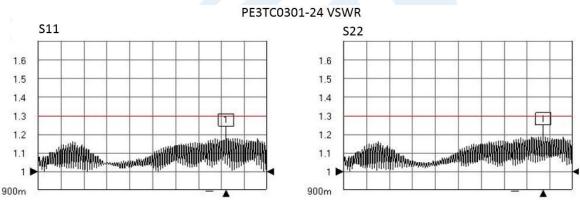
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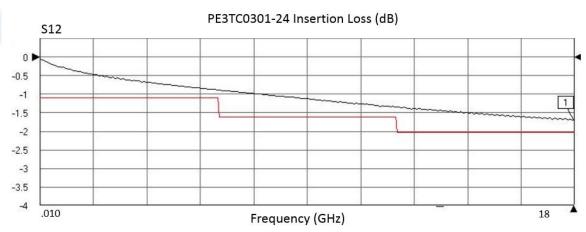
#### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

#### **Typical Performance Data**





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#### **How to Order**



Example: PE3TC0301-12 = 12 inches long cable PE3TC0301-100cm = 100 cm long cable

PE-TC151 Series Phase Stable Test Cable SMA Male to SMA Male to 18 GHz ,RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: PE-TC151 Series Phase Stable Test Cable SMA Male to SMA Male to 18 GHz ,RoHS PE3TC0301

URL: http://www.pasternack.com/sma-male-sma-male-.90-cable-assembly-pe3tc0301-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.



**PE3TC0301 CAD Drawing**PE-TC151 Series Phase Stable Test Cable SMA Male to SMA Male to 18 GHz ,RoHS

