

PE-TC151 Series Phase Stable Test Cable SMA Male to SMA Male to 27 GHz 48 Inch Length ,RoHS

## **RF Cable Assemblies Technical Data Sheet**

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-TC151

#### Features

- Max Frequency 27 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Triple Shielded
- Polyurethane Jacket
- Phase and Amplitude stability with flexure
- Small Diameter Lighter weight lower profile for high density test applications
- Phase change with flexure +/-5° to 27 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**

- General Purpose
- Laboratory Use

- 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 27 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

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 27 GHz 48 Inch Length ,RoHS PE3TC0401-48

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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### PE3TC0401-48



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## PE3TC0401-48

#### **Electrical Specifications**

Minimum	Typical	Maximum	Units
DC		27	GHz
		1.35:1	
	70		%
90			dB
28.8 [94.49]			pF/ft [pF/m]
	5		Degrees
	DC	DC 70 90 28.8 [94.49]	DC 27 1.35:1 70 90 28.8 [94.49]

#### Specifications by Frequency

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Description	F1	F2	F3	F4	F5	Units	
Frequency	12	18	27			GHz	
Insertion Loss (Max.)	2.97	3.77	4.82			dB	
VSWR (Max.)	1.3:1	1.3:1	1.35:1				
Power Handling (Max.)	29	20	14			W	

#### **Mechanical Specifications**

**Cable Assembly** Length\* 48 in [121.92 cm] Weight 0.178 lbs [80.74 g] Cable Cable Type PE-TC151 50 Ohms Impedance Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Silver **Dielectric Type** PTFE Number of Shields 3 Shield Layer 1 Shield Layer 2 Shield Layer 3 Jacket Material Polyurethane Jacket Diameter 0.151 in [3.84 mm]

One Time Minimum Bend Radius

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

0.75 in [19.05 mm]

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#### Connectors

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

#### **Environmental Specifications**

**Temperature** Operating Range

-65 to +90 deg C

Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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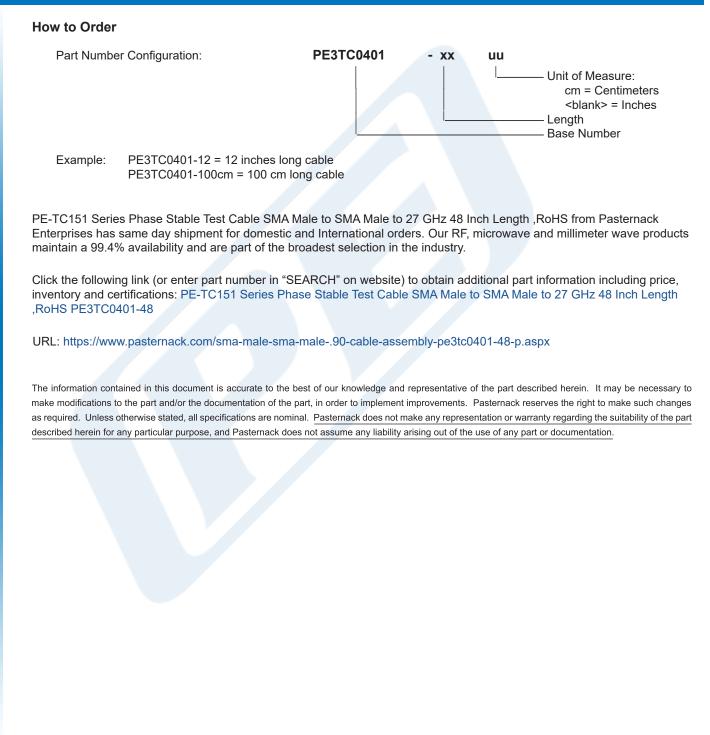




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