

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

- 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

- 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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		27	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 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

ISO 9001 : 2008 Registered

PE3TC0401-48 REV 1.0



PE3TC0401-48



6.2

PE3TC0401-48

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Specifications by Frequency 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 1.3:1 20 14 Watts Power Handling (Max.) 29 **Mechanical Specifications Cable Assembly** 48 in [121.92 cm] Length One Time Minimum Bend Radius 0.75 in [19.05 mm] Cable Cable Type PE-TC151 Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Silver **Dielectric Type** PTFE Number of Shields 3 Shield Layer 1 Silver Plated Copper Braid Shield Layer 2 Silver Plated Copper Tape Silver Plated Copper Braid Shield Layer 3 **Jacket Material** Polyurethane Jacket Diameter 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

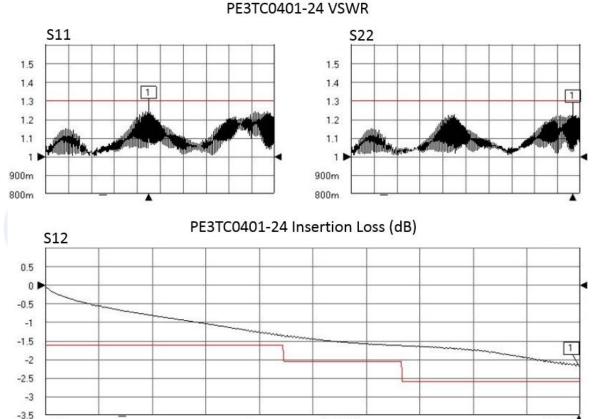
Compliance Certifications (visit www.Pasternack.com for current document) **RoHS** Compliant Yes

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

Typical Performance Data



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Frequency (GHz)

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18



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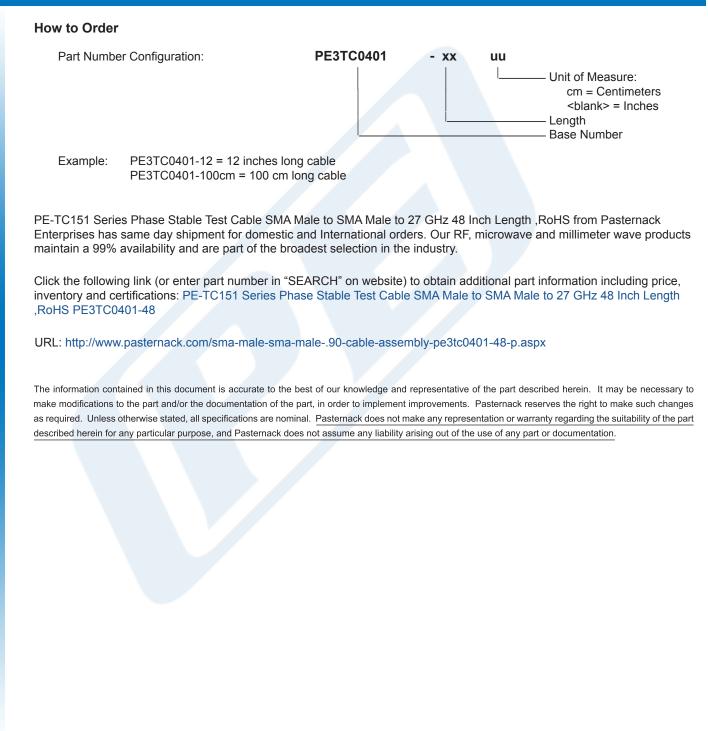




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2

PE3TC0401-48 CAD Drawing PE-TC151 Series Phase Stable Test Cable SMA Male to SMA Male to 27 GHz 48 Inch Length ,RoHS

