

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

PE3TC0401



Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-TC151
- Coax Flex Type: Formable

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 mated
- 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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		27	GHz
VSWR			1.35:1	
Velocity of Propagation		70		%
RF Shielding	90			dB

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



PE3TC0401

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Capacitance		28.8 [94.49]		pF/ft [pF/m]
		5		Degrees

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	6	12	27			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	1.35:1			
Power Handling (Max.)	55	29	20			Watts

Mechanical Specifications

Cable Assembly

Weight 0.11 lbs [49.9 g]

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
 Shield Layer 3 Silver Plated Copper Braid
 Jacket Material Polyurethane
 Jacket Diameter 0.151 in [3.84 mm]
 One Time Minimum Bend Radius 0.75 in [19.05 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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

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



PE3TC0401

Environmental Specifications

Operating Range Temperature -65 to +90 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:
Values at 25°C, sea level.

Typical Performance Data

How to Order

Part Number Configuration: **PE3TC0401 - xx uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3TC0401-12 = 12 inches long cable
PE3TC0401-100cm = 100 cm long cable

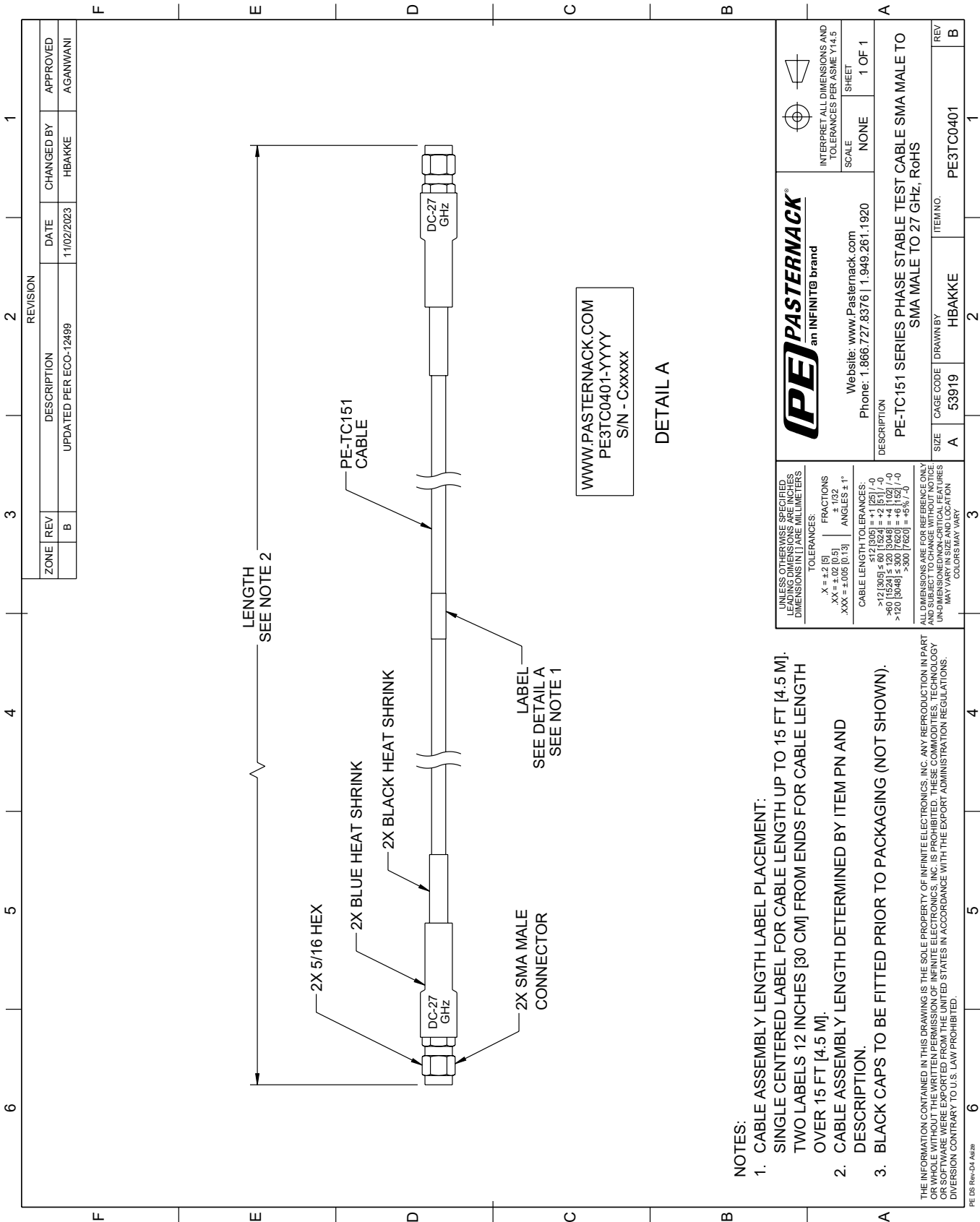
PE-TC151 Series Phase Stable Test Cable SMA Male to SMA Male to 27 GHz ,RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 27 GHz ,RoHS PE3TC0401](#)

URL: <https://www.pasternack.com/sma-male-sma-male-.90-cable-assembly-pe3tc0401-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

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



- NOTES:
- 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
SINGLE CENTERED LABEL FOR CABLE LENGTH UP TO 15 FT [4.5 M].
TWO LABELS 12 INCHES [30 CM] FROM ENDS FOR CABLE LENGTH OVER 15 FT [4.5 M].
 - 2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
 - 3. BLACK CAPS TO BE FITTED PRIOR TO PACKAGING (NOT SHOWN).

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVISION CONTRARY TO U.S. LAW PROHIBITED.

PE D8 Rev-D4 Addn