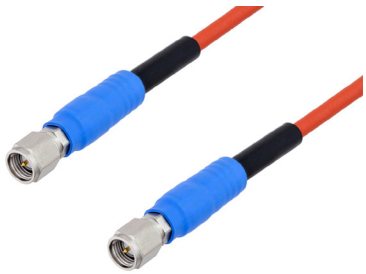
PE-TC151 Series Phase Stable Test Cable SMA Male to SMA Male to 27 GHz, RoHS



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 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

Electrical Specifications

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

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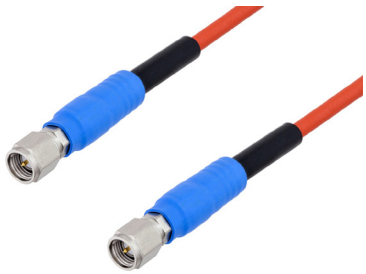

PE3TC0401

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

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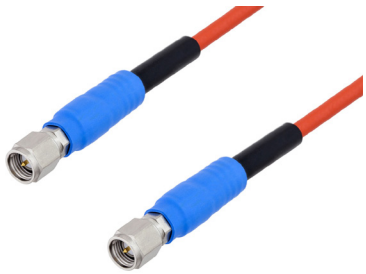

PE3TC0401

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**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3TC0401 — 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

PE3TC0401 CAD Drawing

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