

# 1.0mm Male to 1.0mm Male Precision Cable Using PE-TC110 Coax, RoHS



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

PE3TC1220

### Configuration

Connector 1: 1.0mm Male
Connector 2: 1.0mm Male
Cable Type: PE-TC110

#### **Features**

- · Operating to 110 GHz
- · Protective light duty cable armoring
- · Precision 1.0mm stainless steel connectors
- · Excellent amplitude and phase stability with flexure
- Non-conductive protective Nomex outer sleeve
- · Each serialized assembly comes with test data
- · In-stock and ready to ship

#### **Applications**

- · Vector Network Analyzer testing
- Semiconductor probe testing
- · Automotive radar testing
- Military radar testing

#### **Description**

Pasternack's 110 GHz high performance VNA test cables are designed for your precision testing needs requiring a coaxial cable using a 1.0mm connector interface. The coax is protected with a light armoring that helps protect the small diameter cable from being damaged and improves stability during flexure. These cables have excellent VSWR and insertion loss properties and are phase stable under flexure. Each cable assembly is 100% tested and each unit comes with serialized test data. These 1.0mm cables come standard in 6 inch and 12 inch lengths with Male to Male or Male to Female configurations and are available for same-day shipment.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		110	GHz
VSWR			1.5:1	
Group Delay		1.34 [4.4]		ns/ft [ns/m]
Capacitance		26.5 [86.94]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1.0mm Male to 1.0mm Male Precision Cable Using PE-TC110 Coax, RoHS PE3TC1220





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#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	67	110			GHz
Insertion Loss (Max.)	3.71	4.33	5.62			dB/ft
	[12.17]	[14.21]	[18.44]			[dB/m]
VSWR (Max.)	1.3:1	1.4:1	1.5:1			

**Electrical Specification Notes:** Values at 25°C, sea level.

#### **Mechanical Specifications**

**Cable Assembly** 

Diameter 0.27 in [6.86 mm]

Cable

Cable Type PE-TC110

One Time Minimum Bend Radius 1 in [25.4 mm]

#### Connectors

Connector 2	Connector 1	Description
1.0mm Male	1.0mm Male	Туре
50 Ohms	50 Ohms	Impedance
Beryllium Copper, Gold	Beryllium Copper, Gold	Contact Material and Plating
Passivated Stainless Steel	Passivated Stainless Steel	Coupling Nut Material and Plating
4 in-lbs [0.45 Nm]	4 in-lbs [0.45 Nm]	Torque
Passivated Stainless Steel	Passivated Stainless Steel	Body Material and Plating
	Passivated Stainless Steel	Body Material and Plating

#### **Environmental Specifications**

**Temperature** 

**Operating Range** -65 to +125 deg C

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

**RoHS Compliant** 

12/17/2015 **REACH Compliant** 

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

Notes:

• Values at 25°C, sea level.

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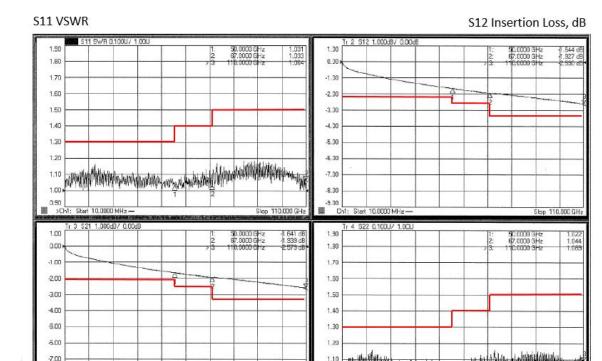


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#### **Typical Performance Data**

#### PE3TC1220-6



: Start 10.0000 MHz S21 Insertion Loss, dB

S22 VSWR

Frequency: DC to 110 GHz

110,000 G

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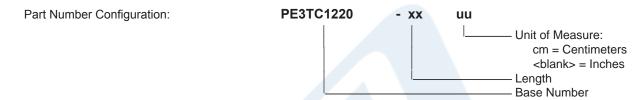
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#### **How to Order**



Example: PE3TC1220-12 = 12 inches long cable PE3TC1220-100cm = 100 cm long cable

1.0mm Male to 1.0mm Male Precision Cable Using PE-TC110 Coax, 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: 1.0mm Male to 1.0mm Male Precision Cable Using PE-TC110 Coax, RoHS PE3TC1220

URL: http://www.pasternack.com/1.0mm-male-1.0mm-male-pe-tc100-cable-assembly-pe3tc1220-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.



PE3TC1220 CAD Drawing
1.0mm Male to 1.0mm Male Precision Cable Using PE-TC110 Coax, RoHS

