2.92mm Male to 2.92mm Female 40GHz Phase & Amplitude Stable Cable Assembly 150CM Length

PECN3TC0005-150CM

Configuration

- Connector 1: 2.92mm Male
- Connector 2: 2.92mm Female
- Coax Flex Type: Flexible

Features

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 82% Phase Velocity
- Designed for use as VNA test port extenders
- Highly flexible armored cable construction
- 1.30:1 VSWR to 40 GHz
- 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 same-day

Applications

- General Purpose
- Laboratory Use
- Vector Network analyzer test port extenders
- Semiconductor probe testing
- Precise bench-top testing
- Lab and production testing

Description

Pasternack's PECN3TC0005-150CM 2.92mm male to 2.92mm female cable using coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack 2.92mm to 2.92mm cable assembly has a male to female gender configuration with 50 ohm flexible coax. The PECN3TC0005-150CM 2.92mm male to 2.92mm female cable assembly operates to 40 GHz. Pasternack high performance high flex VNA test cables are designed to provide customers repeatable and accurate VNA measurements. These Test cables have excellent electrical properties including low Insertion Loss, low VSWR and phase stability of +/- 8¡ã with flexure. The flexibility of these cables makes it easier and safer to test your Device Under Test (DUT).? When used with the appropriate calibration kit, these test cables effectively extend the test port of the VNA allowing for accurate measurements of devices that cannot be directly connected to a network analyzer test port.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.3:1	
Velocity of Propagation		82		%
RF Shielding	90			dB

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Group Delay		1.237 [4.06]		ns/ft [ns/m]
Operating Voltage (AC)			250	Vrms
Input Power (Average)			74	Watts
Phase Stability with Flexure		8		Degrees
Amplitude Stability with Flexure		0.1		dB

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	5	10	20	40		GHz
Insertion Loss (Max.)	1.09	1.55	2.11	4.26		dB/ft
	3.58	5.09	6.92	13.98		dB/m
Power Handling (Max.)	210	156	95	74		Watts

Electrical Specification Notes:
Values at 25¡ãC, sea level.

Mechanical Specifications

Cable Assembly

Cable

Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	1
Jacket Diameter	0.256 in [6.5 mm]
One Time Minimum Bend Radius	1.28 in [32.51 mm]
Repeated Minimum Bend Radius	2.56 in [65.02 mm]

Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PEEK&PEI	PEEK&PEI
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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Environmental Specifications

Operating Range Temperature	-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:
Values at 25¡ãC, sea level.

Typical Performance Data

How to Order

Part Number Configuration: **PECN3TC0005 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PECN3TC0005 — Base Number

Example: PECN3TC0005-12 = 12 inches long cable
PECN3TC0005-100cm = 100 cm long cable

2.92mm Male to 2.92mm Female 40GHz Phase & Amplitude Stable Cable Assembly 150CM Length 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: 2.92mm Male to 2.92mm Female 40GHz Phase & Amplitude Stable Cable Assembly 150CM Length PECN3TC0005-150CM

URL: https://www.pasternack.com/2.92mm-male-2.92mm-female-vna-cable-cable-assembly-PECN3TC0005-150cm-p.aspx

PECN3TC0005-150CM CAD Drawing

2.92mm Male to 2.92mm Female 40GHz Phase & Amplitude Stable Cable Assembly 150CM Length