

7/16 DIN Male Right Angle to 7/16 DIN Female
4 Hole Flange Low PIM Cable 100 CM Length With
TFT-5G-402 Coax Times Microwave Components



PE3C7997-100CM

Configuration

- Connector 1: 7/16 DIN Male Right Angle
- Connector 2: 7/16 DIN Female 4 Hole Flange
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

Description

Pasternack's PE3C7997-100CM 7/16 DIN male right angle to 7/16 DIN female 4 hole flange 100 cm cable using TFT-5G-402 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 7/16 DIN to 7/16 DIN cable assembly has a male to female gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3C7997-100CM 7/16 DIN male to 7/16 DIN female cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The right angle 7/16 DIN interface on the TFT-5G-402 cable allows for easier connections in tight spaces. Our RF cable assembly with 7/16 DIN 4 hole flange interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 80 dB.

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		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	80			dB
Passive Intermodulation			-160	dBc

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Capacitance		26.7 [87.6]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.45	0.49	0.59	0.88	1.21	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.12 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Length	39.37 in [100 cm]
Width/Diameter	1.26 in [32 mm]

Cable

Cable Type	TFT-5G-402
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PTFE
Number of Shields	2
Jacket Material	FEP, Blue
Jacket Diameter	0.16 in [4.06 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]

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Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male Right Angle	7/16 DIN Female 4 Hole Flange
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Phosphor Bronze, Silver	Brass, Silver
Contact Plating Specification	5 μ m	5 μ m
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Copper Clad Aluminum
Outer Conductor Plating Specification		3 μ m
Body Material and Plating	Brass, Copper Clad Aluminum	Brass, Copper Clad Aluminum
Body Plating Specification	3 μ m	3 μ m
Coupling Nut Material and Plating	Brass, Copper Clad Aluminum	
Coupling Nut Plating Specification	3 μ m	
Torque	22.083 ft-lbs 29.95 Nm	22.083 ft-lbs 29.95 Nm

Environmental Specifications

Operating Range Temperature -55 to +150 deg C

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

Plotted and Other Data

Notes:

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PE3C7997-100CM

Typical Performance Data

How to Order

Part Number Configuration:

PE3C7997

- **xx**

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C7997-12 = 12 inches long cable
PE3C7997-100cm = 100 cm long cable

7/16 DIN Male Right Angle to 7/16 DIN Female 4 Hole Flange Low PIM Cable 100 CM Length With TFT-5G-402 Coax Times Microwave Components 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.

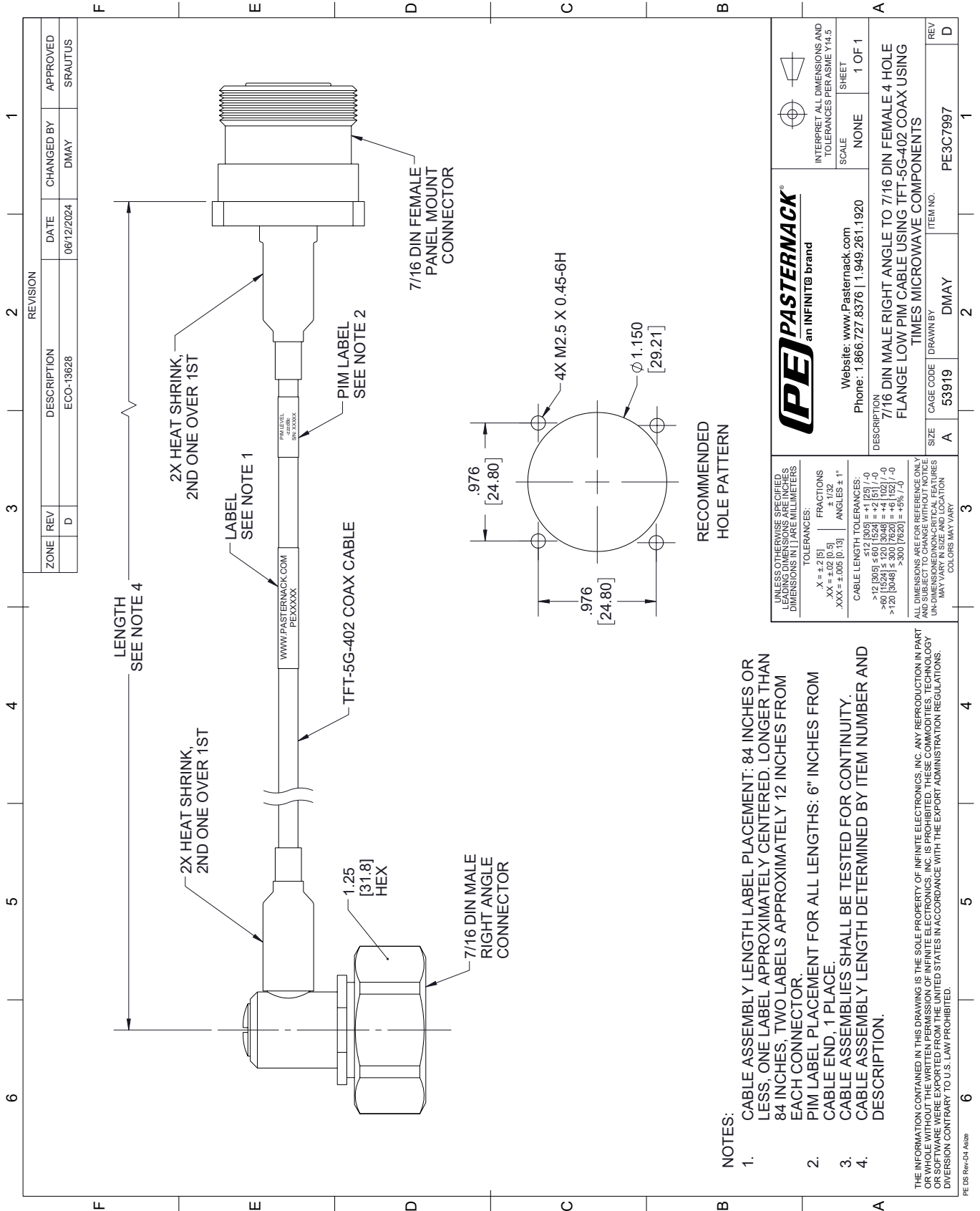
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male Right Angle to 7/16 DIN Female 4 Hole Flange Low PIM Cable 100 CM Length With TFT-5G-402 Coax Times Microwave Components PE3C7997-100CM](https://www.pasternack.com/7-16-din-male-right-angle-to-7-16-din-female-4-hole-flange-low-pim-cable-100-cm-length-using-tft-5g-402-pe3c7997-100cm-p.aspx)

URL: <https://www.pasternack.com/7-16-din-male-right-angle-to-7-16-din-female-4-hole-flange-low-pim-cable-100-cm-length-using-tft-5g-402-pe3c7997-100cm-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.

PE3C7997-100CM CAD Drawing

7/16 DIN Male Right Angle to 7/16 DIN Female 4 Hole Flange Low PIM Cable
 100 CM Length With TFT-5G-402 Coax Times Microwave Components



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	ECO-13628	DMAY
	D			SRAUTUS

 Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: 7/16 DIN MALE RIGHT ANGLE TO 7/16 DIN FEMALE 4 HOLE FLANGE LOW PIM CABLE USING TFT-5G-402 COAX USING TIMES MICROWAVE COMPONENTS		
SIZE: A	CAGE CODE: 53919	ITEM NO.: PE3C7997
DRAWN BY: DMAY		REV: D

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.

TOLERANCES:
 X = ±.2 (5)
 XX = ±.02 (0.5)
 .XXX = ±.005 (0.13)

FRACTIONS:
 ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 >12 [305] ±.60 [1524] = ±.2 (5) / -0
 >60 [1524] ±.120 [3048] = ±.4 (102) / -0
 >120 [3048] ±.300 [7620] = ±.6 (152) / -0
 >300 [7620] ±.75% (7.5)

ALL DIMENSIONS ARE FOR REFERENCE ONLY. ALL DIMENSIONS ON DRAWING ARE FINAL. DIMENSIONS ON CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

- NOTES:**
- CABLE ASSEMBLY LABEL PLACEMENT: 84 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 84 INCHES, TWO LABELS APPROXIMATELY 12 INCHES FROM EACH CONNECTOR.
 - PIM LABEL PLACEMENT FOR ALL LENGTHS: 6" INCHES FROM CABLE END, 1 PLACE.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM NUMBER AND DESCRIPTION.

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