

# 7/16 DIN Male Right Angle to 7/16 DIN Female 4 Hole Flange Low PIM Cable Using TFT-402 Coax Using Times Microwave Components



## RF Cable Assemblies Technical Data Sheet

PE3C7965

### Configuration

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

### 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 PE3C7965 7/16 DIN male right angle to 7/16 DIN female 4 hole flange cable using TFT-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-402 coax. The PE3C7965 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-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.

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 Using TFT-402 Coax Using Times Microwave Components PE3C7965](#)



7/16 DIN Male Right Angle to 7/16 DIN Female  
4 Hole Flange Low PIM Cable Using TFT-402 Coax  
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### 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
Capacitance		26.7 [87.6]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.5 [27.89]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		5.6 [18.37]		Ω/1000ft [Ω/Km]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.05	0.07	0.1	0.17	0.26	dB/ft
	0.16	0.23	0.33	0.56	0.85	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.12 dB for the right angle connector and 0.1 for the straight connector.

### Mechanical Specifications

#### Cable Assembly

Diameter 1.26 in [32 mm]

#### Cable

Cable Type	TFT-402
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Tinned Copper Braid
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
Contact Material and Plating	Phosphor Bronze, Silver	Brass, Silver
Contact Plating Specification	5 $\mu$ m	5 $\mu$ m
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Copper Clad Aluminum	
Outer Conductor Plating Specification	3 $\mu$ m	
Body Material and Plating	Brass, Copper Clad Aluminum	Brass, Copper Clad Aluminum
Body Plating Specification	3 $\mu$ m	3 $\mu$ m
Coupling Nut Material and Plating	Brass, Copper Clad Aluminum	
Coupling Nut Plating Specification	3 $\mu$ m	
Torque	22.083 ft-lbs [29.95 Nm]	22.083 ft-lbs [29.95 Nm]

### Environmental Specifications

#### Temperature

Operating Range

-55 to +150 deg C

### Compliance Certifications

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

### Plotted and Other Data

Notes:

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PE3C7965

### How to Order

Part Number Configuration:

**PE3C7965**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C7965-12 = 12 inches long cable  
PE3C7965-100cm = 100 cm long cable

7/16 DIN Male Right Angle to 7/16 DIN Female 4 Hole Flange Low PIM Cable Using TFT-402 Coax Using 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.

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URL: <https://www.pasternack.com/7-16-din-male-7-16-din-female-tft-402-cable-assembly-pe3c7965-p.aspx>

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# PE3C7965 CAD Drawing

7/16 DIN Male Right Angle to 7/16 DIN Female 4 Hole Flange Low PIM  
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