



7/16 DIN Male Right Angle to 7/16 DIN Male Right Angle Low PIM Cable Using TFT-402 Coax Using Times Microwave Components

RF Cable Assemblies Technical Data Sheet

PE3C7963

Configuration

- Connector 1: 7/16 DIN Male Right Angle
- Connector 2: 7/16 DIN Male Right Angle
- 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 PE3C7963 7/16 DIN male right angle to 7/16 DIN male right angle 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 male gender configuration with 50 ohm flexible TFT-402 coax. The PE3C7963 7/16 DIN male to 7/16 DIN male 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 interfaces on the TFT-402 cable allow for easier connections in tight spaces. 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 |

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 Male Right Angle Low PIM Cable Using TFT-402 Coax Using Times Microwave Components PE3C7963](#)



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| | | |
|-------------------------------|-------------|-----------------|
| 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 | |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.12 dB per connector.

Mechanical Specifications

Cable Assembly

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 Male Right Angle |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Phosphor Bronze, Silver | Phosphor Bronze, Silver |
| Contact Plating Specification | 5 µm | 5 µm |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Copper Clad Aluminum | Brass, Copper Clad Aluminum |
| Body Plating Specification | 3 µm | 3 µm |
| Coupling Nut Material and Plating | Brass, Copper Clad Aluminum | Brass, Copper Clad Aluminum |
| Coupling Nut Plating Specification | 3 µm | 3 µm |
| 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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How to Order

Part Number Configuration:

PE3C7963

- **xx**

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

Example: PE3C7963-12 = 12 inches long cable
PE3C7963-100cm = 100 cm long cable

7/16 DIN Male Right Angle to 7/16 DIN Male Right Angle 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.

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 Male Right Angle Low PIM Cable Using TFT-402 Coax Using Times Microwave Components PE3C7963](https://www.pasternack.com/7-16-din-male-7-16-din-male-tft-402-cable-assembly-pe3c7963-p.aspx)

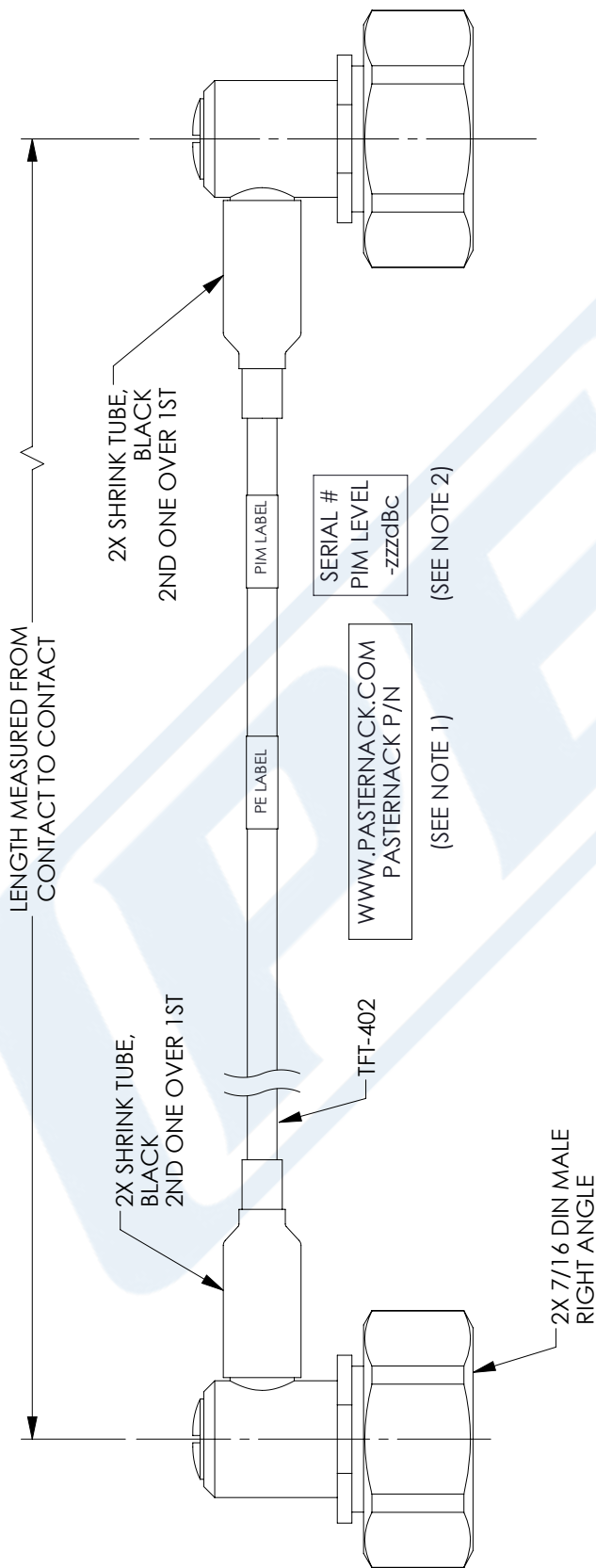
URL: <https://www.pasternack.com/7-16-din-male-7-16-din-male-tft-402-cable-assembly-pe3c7963-p.aspx>

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PE3C7963 CAD Drawing

7/16 DIN Male Right Angle to 7/16 DIN Male Right Angle Low PIM Cable
Using TFT-402 Coax Using Times Microwave Components

| REVISIONS | | |
|-----------|---|----------|
| REV. | DESCRIPTION | DATE |
| B | PCR PE3C7959 20220517 AND PE3C7948 20210610 | 5/17/22 |
| | | APPROVED |
| | | SRAUTUS |



NOTES:

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12" FROM THE FRONT OF THE CONNECTOR.
2. PIM LABEL 6" FROM CABLE END 1 PLACE.

| | |
|--|------------------------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | |
| TOLERANCES: | FRACTIONS |
| .X = ±.2 | [5.08] |
| .XX = ±.02 | [.51] |
| .XXX = ±.005 | [.13] |
| ANGLES ± 1° | |
| CABLE LENGTH (L) TOLERANCES: | |
| L ≤ 12 | [305] = +1 [25] / -0 |
| 12 [305] < L ≤ 60 | [1524] = +2 [51] / -0 |
| 60 [1524] < L ≤ 120 | [3048] = +4 [102] / -0 |
| 120 [3048] < L ≤ 300 | [7620] = +6 [152] / -0 |
| 300 [7620] < L = +5% / -0 | |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | |



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| SHEET 1 OF 1 | SCALE N/A |
| REV B | ITEM NO. PE3C7963 |

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