

## 2.2-5 Female to N Female Low PIM Cable 12 Inch Length Using TFT-5G-402 Coax Using Times Microwave Components



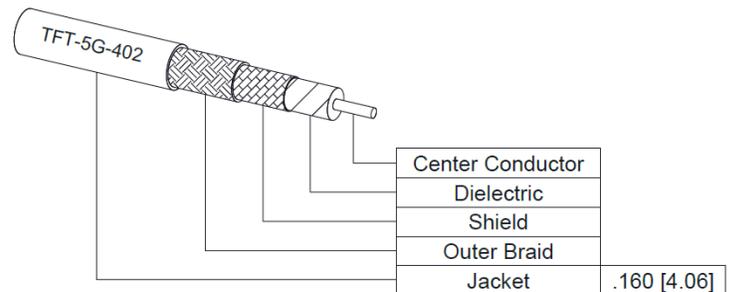
### PE3C8395-12

#### Configuration

- Connector 1: 2.2-5 Female
- Connector 2: N Female
- 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 PE3C8395-12 2.2-5 female to type N female 12 inch 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 2.2-5 to type N cable assembly has a female to female gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3C8395-12 2.2-5 female to type N 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 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   |
| IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz |         |         |         |       |

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**PE3C8395-12**

**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.) | 0.21 | 0.26 | 0.32 | 0.45 | 0.64 | 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 0.1\*SQRT(FGHz) dB for the 2.2-5 connector and 0.1 dB for the N connector.

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.665 in [16.89 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                                  | 2.2-5 Female             | N Female                |
| Impedance                             | 50 Ohms                  | 50 Ohms                 |
| Configuration                         | Straight                 | Straight                |
| Mating Cycles                         | 100                      | 500                     |
| Contact Material and Plating          | Beryllium Copper, Silver | Phosphor Bronze, Silver |
| Contact Plating Specification         | 200 µin                  | 5 µm                    |
| Dielectric Type                       | PTFE                     | PTFE                    |
| Outer Conductor Material and Plating  | Beryllium Copper, Silver | Brass, Tri-Metal        |
| Outer Conductor Plating Specification | 100 µin                  | 3 µm                    |
| Body Material and Plating             | Brass, Silver            | Brass, Tri-Metal        |
| Body Plating Specification            | 100 µin                  | 3 µm                    |
| Torque                                | 26 in-lbs 2.94 Nm        | 10 in-lbs 1.13 Nm       |

**Environmental Specifications**

Operating Range Temperature -40 to +125 deg C

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

**Plotted and Other Data**

Notes:

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### PE3C8395-12

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C8395**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C8395-12 = 12 inches long cable  
PE3C8395-100cm = 100 cm long cable

2.2-5 Female to N Female Low PIM Cable 12 Inch Length Using TFT-5G-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.

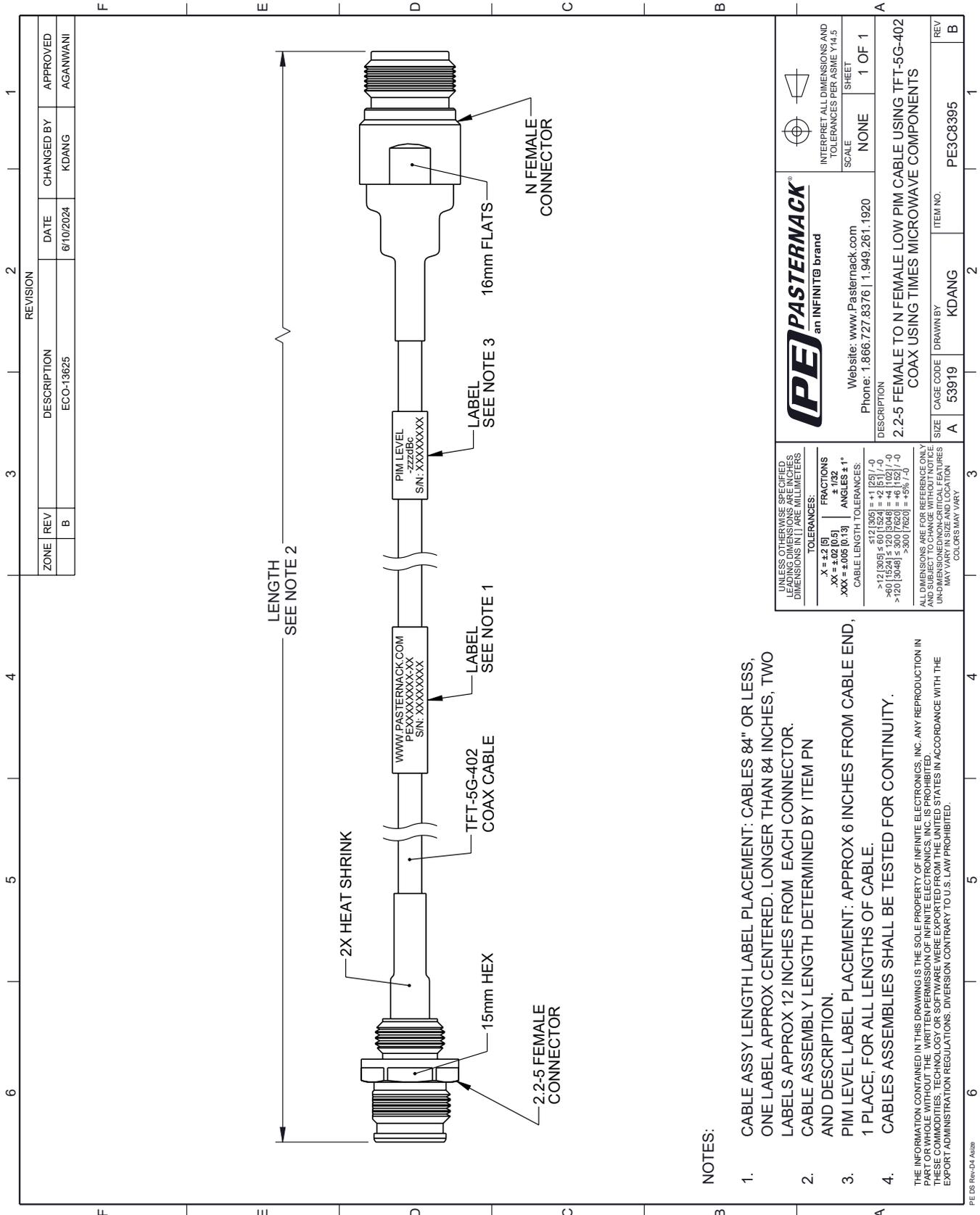
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.2-5 Female to N Female Low PIM Cable 12 Inch Length Using TFT-5G-402 Coax Using Times Microwave Components PE3C8395-12](https://www.pasternack.com/2.2-5-female-to-n-female-low-pim-cable-12-inch-length-using-tft-5g-402-pe3c8395-12.html)

URL: <https://www.pasternack.com/2.2-5-female-to-n-female-low-pim-cable-12-inch-length-using-tft-5g-402-pe3c8395-12.html>

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# PE3C8395-12 CAD Drawing

2.2-5 Female to N Female Low PIM Cable 12 Inch Length Using TFT-5G-402 Coax Using Times Microwave Components



**NOTES:**

1. CABLE ASSY LENGTH LABEL PLACEMENT: CABLES 84" OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 84 INCHES, TWO LABELS APPROX 12 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. PIM LEVEL LABEL PLACEMENT: APPROX 6 INCHES FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.
4. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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| REVISION |     | DATE        | CHANGED BY | APPROVED |
|----------|-----|-------------|------------|----------|
| ZONE     | REV | DESCRIPTION |            |          |
|          | B   | ECO-13625   | KDANG      | AGANWANI |

|   |           |  |
|---|-----------|--|
|   |           | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5<br>SCALE NONE<br>SHEET 1 OF 1 |
| Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a><br>Phone: 1.866.727.8376   1.949.261.1920 |           |  |
| DESCRIPTION<br>2.2-5 FEMALE TO N FEMALE LOW PIM CABLE USING TFT-5G-402 COAX USING TIMES MICROWAVE COMPONENTS  |           |  |
| SIZE  | CAGE CODE | ITEM NO.   |
| A   | 53919     | KDANG  |
| DRAWN BY  |           | REV  |
| KDANG   |           | B  |

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

**TOLERANCES:**

|                     |                          |
|---------------------|--------------------------|
| .X = ±.2 [5]        | FRACIONS ± 1/32          |
| .XX = ±.02 [0.5]    | ANGLES ± 1°              |
| .XXX = ±.005 [0.13] | CABLE LENGTH TOLERANCES: |

<12 [305] ±.60 [1524] = +1 [25] / -0  
 >12 [305] ±.60 [1524] = +2 [51] / -0  
 >40 [1024] ±.120 [3048] = +4 [102] / -0  
 >120 [3048] ±.300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY