

## MCX Plug Right Angle to TNC Female Cable Using RG316 Coax

### PE3W10705

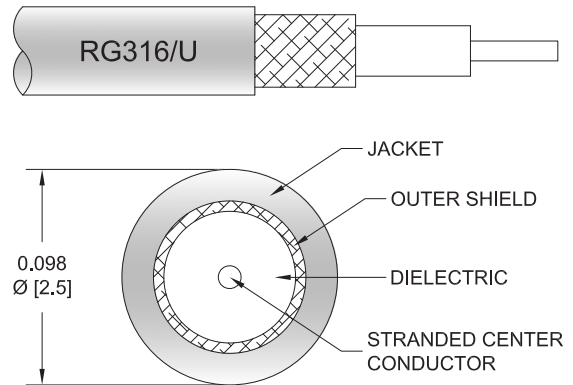


#### Configuration

- Connector 1: MCX Plug Right Angle
- Connector 2: TNC Female
- Cable Type: RG316
- Coax Flex Type: Flexible

#### Features

- 69% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W10705 MCX plug right angle to TNC female cable using RG316 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 MCX to TNC cable assembly has a plug to female gender configuration with 50 ohm flexible RG316 coax. The right angle MCX interface on the RG316 cable allows for easier connections in tight spaces.

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 |
|-------------------------|---------|---------|---------|-------|
| Velocity of Propagation |         | 69      |         | %     |
| Jacket Spark            |         |         | 2,000   | Vrms  |

#### Mechanical Specifications

##### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.037 lbs [16.78 g] |

##### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG316                     |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Stranded                  |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |

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|                   |                            |
|-------------------|----------------------------|
| Number of Shields | 1                          |
| Shield Layer 1    | Silver Plated Copper Braid |
| Jacket Material   | FEP, Tan                   |
| Jacket Diameter   | 0.102 in [2.59 mm]         |

#### Connectors

| Description                   | Connector 1          | Connector 2   |
|-------------------------------|----------------------|---------------|
| Type                          | MCX Plug Right Angle | TNC Female    |
| Specification                 | CECC 22220           | MIL-STD-348   |
| Impedance                     | 50 Ohms              | 50 Ohms       |
| Configuration                 | Right Angle          | Straight      |
| Contact Material and Plating  | Brass, Gold          | Brass, Gold   |
| Contact Plating Specification | 30 µin minimum       |               |
| Dielectric Type               | PTFE                 | PTFE          |
| Body Material and Plating     | Brass, Nickel        | Brass, Nickel |
| Body Plating Specification    | 100 µin minimum      |               |

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

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### PE3W10705

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W10705**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W10705-12 = 12 inches long cable  
PE3W10705-100cm = 100 cm long cable

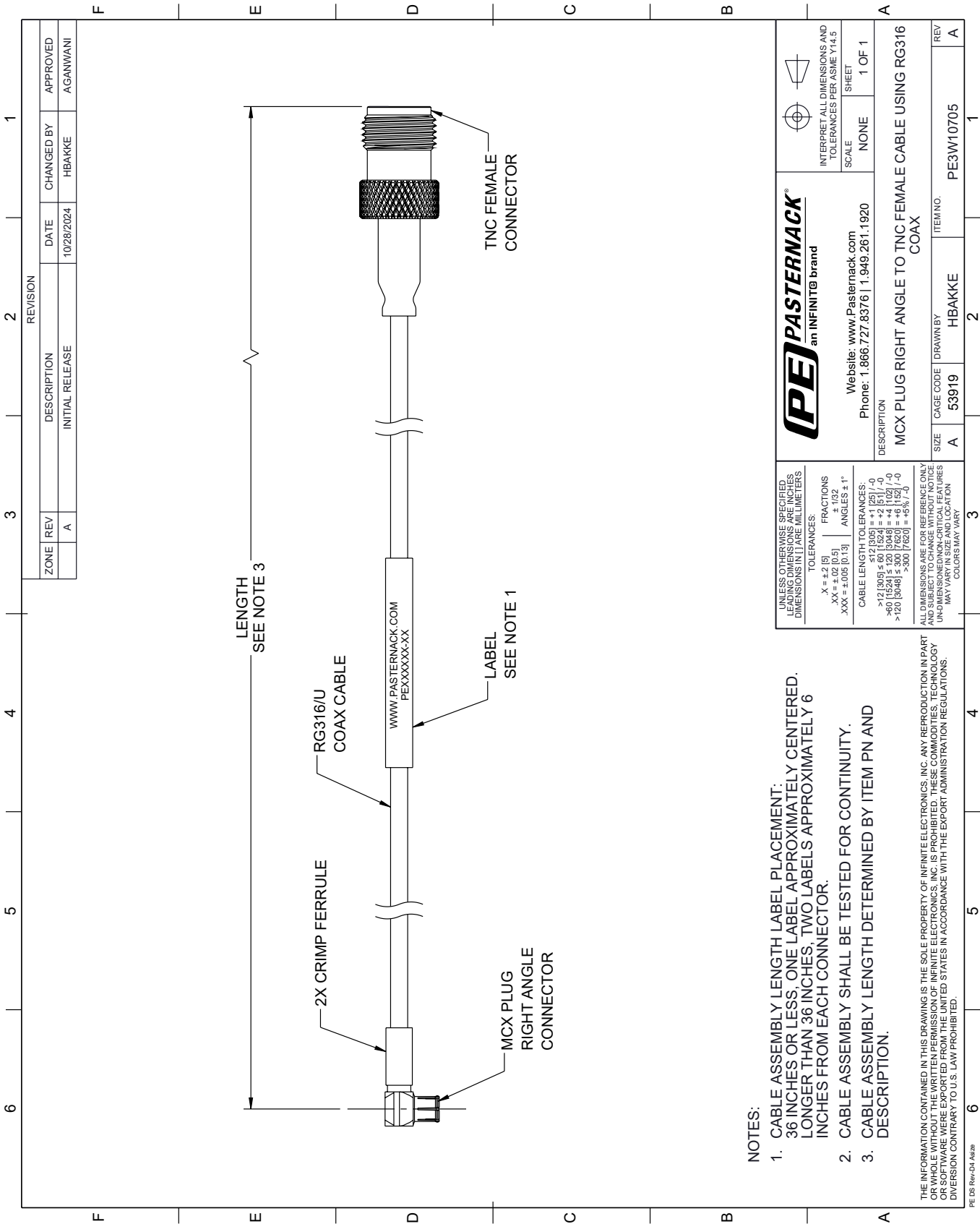
MCX Plug Right Angle to TNC Female Cable Using RG316 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Plug Right Angle to TNC Female Cable Using RG316 Coax PE3W10705](#)

URL: <https://www.pasternack.com/mcx-plug-right-angle-to-tnc-female-cable-using-rg316-pe3w10705-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.

PE3W10705 CAD Drawing
MCX Plug Right Angle to TNC Female Cable Using RG316 Coax



NOTES:

- 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- 2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
- 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

|                                                                                                  |  |                                                                                                                                                                                                                                                                          |  |                                                        |  |
|--------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS. |  | <b>PE PASTERNAK</b><br>an INFINITI® brand                                                                                                                                                                                                                                |  | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 |  |
| TOLERANCES:                                                                                      |  | Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a>                                                                                                                                                                                                      |  | SCALE                                                  |  |
| X = ±.2 [5]                                                                                      |  | Phone: 1.866.727.8376   1.949.261.1920                                                                                                                                                                                                                                   |  | NONE                                                   |  |
| .XX = ±.02 [0.5]                                                                                 |  | DESCRIPTION                                                                                                                                                                                                                                                              |  | SHEET                                                  |  |
| .XXX = ±.005 [0.13]                                                                              |  | MCX PLUG RIGHT ANGLE TO TNC FEMALE CABLE USING RG316 COAX                                                                                                                                                                                                                |  | 1 OF 1                                                 |  |
| FRACTIONS ± 1/32                                                                                 |  | SIZE                                                                                                                                                                                                                                                                     |  | CAGE CODE                                              |  |
| ANGLES ± 1°                                                                                      |  | A                                                                                                                                                                                                                                                                        |  | 53919                                                  |  |
| CABLE LENGTH TOLERANCES:                                                                         |  | DRAWN BY                                                                                                                                                                                                                                                                 |  | HBAKKE                                                 |  |
| >12 [305] ≤ 60 [1524] = ±.125 [-0]                                                               |  | ITEM NO.                                                                                                                                                                                                                                                                 |  | PE3W10705                                              |  |
| >60 [1524] ≤ 120 [3048] = ±.125 [-0]                                                             |  | REV                                                                                                                                                                                                                                                                      |  | A                                                      |  |
| >120 [3048] ≤ 300 [7620] = ±.125 [-0]                                                            |  | ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. |  | COLORS MAY VARY                                        |  |