

TNC Male to SMA Male Cable Using RG316 Coax with HeatShrink



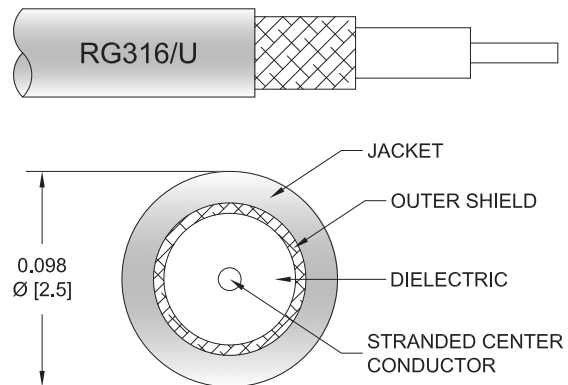
PE3W12386/HS

Configuration

- Connector 1: TNC Male
- Connector 2: SMA Male
- Cable Type: RG316
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W12386/HS TNC male to SMA male 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 TNC to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG316 coax. The PE3W12386/HS TNC male to SMA male cable assembly operates to 3 GHz.

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 | | 3 | GHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 69 | | % |
| Jacket Spark | | | 2,000 | Vrms |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|-----------------|--------------------------|-----------------------|-----------|------|------|------|------|-------|--------------|
| | | | Frequency | | | | | MHz | |
| PE3W12386/HS | Custom Lengths Available | Insertion Loss (Typ.) | 0.11 | 0.16 | 0.24 | 0.38 | 0.58 | dB/ft | |
| | | | 0.37 | 0.53 | 0.79 | 1.25 | 1.91 | dB/m | |
| PE3W12386/HS-12 | 12 inch | Insertion Loss (Typ.) | 0.31 | 0.36 | 0.44 | 0.58 | 0.78 | dB | 0.056 |
| PE3W12386/HS-24 | 24 inch | Insertion Loss (Typ.) | 0.42 | 0.52 | 0.68 | 0.96 | 1.36 | dB | 0.067 |
| PE3W12386/HS-36 | 36 inch | Insertion Loss (Typ.) | 0.53 | 0.68 | 0.92 | 1.34 | 1.94 | dB | 0.077 |
| PE3W12386/HS-48 | 48 inch | Insertion Loss (Typ.) | 0.64 | 0.84 | 1.16 | 1.72 | 2.52 | dB | 0.087 |
| PE3W12386/HS-72 | 72 inch | Insertion Loss (Typ.) | 0.86 | 1.16 | 1.63 | 2.48 | 3.68 | dB | 0.107 |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB
 Loss due to Connector 2: 0.1 dB
 Base Weight: 0.056 pounds
 Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.046 lbs [20.87 g]

Cable

Cable Type RG316
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Shield Layer 1 Silver Plated Copper Braid
 Jacket Material FEP, Tan
 Jacket Diameter 0.102 in [2.59 mm]

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|-----------------|------------------|
| Type | TNC Male | SMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | 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, Gold |
| Body Plating Specification | 100 µin minimum | |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Gold |
| Coupling Nut Plating Specification | 100 µin minimum | |
| Hex Size | | 5/16 in |
| Torque | | 5 in-lbs 0.57 Nm |

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3W12386/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W12386/HS - xx uu



Example: PE3W12386/HS-12 = 12 inches long cable
PE3W12386/HS-100cm = 100 cm long cable

TNC Male to SMA Male Cable Using RG316 Coax with HeatShrink 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.

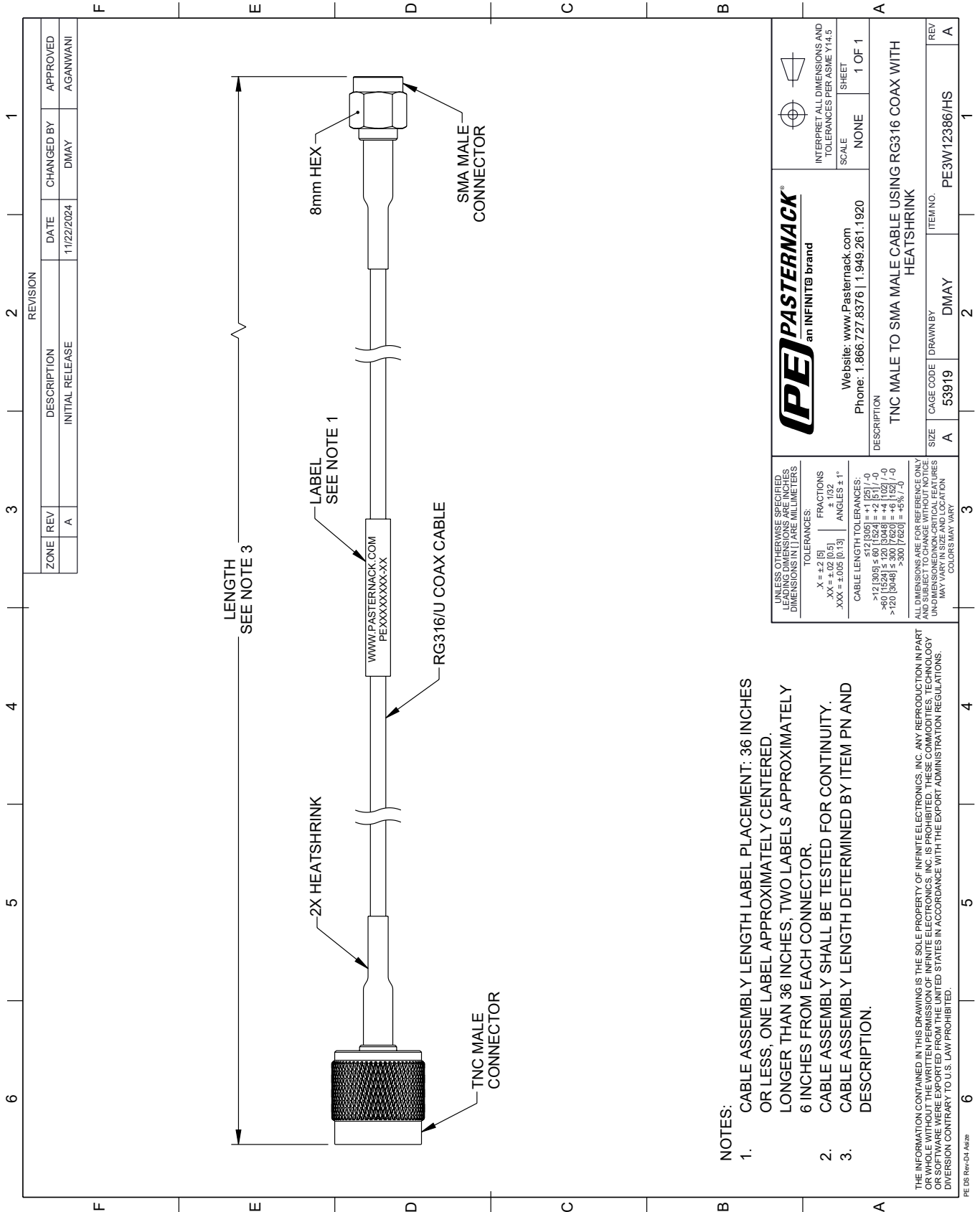
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to SMA Male Cable Using RG316 Coax with HeatShrink PE3W12386/HS](https://www.pasternack.com/tnc-male-to-sma-male-cable-using-rg316-with-heatshrink-pe3w12386-hs)

URL: <https://www.pasternack.com/tnc-male-to-sma-male-cable-using-rg316-with-heatshrink-pe3w12386-hs-p.aspx>

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PE3W12386/HS CAD Drawing

TNC Male to SMA Male Cable Using RG316 Coax with HeatShrink



| REVISION | | DATE | CHANGED BY | APPROVED |
|-----------------|-----|------------|------------|----------|
| ZONE | REV | | | |
| | A | 11/22/2024 | DMAY | AGANWANI |
| DESCRIPTION | | | | |
| INITIAL RELEASE | | | | |

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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: TNC MALE TO SMA MALE CABLE USING RG316 COAX WITH HEATSHRINK

SIZE: A
CAGE CODE: 53919
DRAWN BY: DMAY
ITEM NO.: PE3W12386/HS

REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS 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) = ±.1 (25) / -0
 >60 (1524) ≤ 120 (3048) = ±.4 (102) / -0
 >120 (3048) ≤ 300 (7620) = ±.6 (152) / -0
 >300 (7620) = ±.6% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE TO THE CENTERLINE OF THE PART. DIMENSIONS IN SQUARE BRACKETS ARE NON-CRITICAL FEATURES. COLORS MAY VARY.

- NOTES:**
- 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.
 - CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-04 Add2