

SMA Female Bulkhead to MCX Plug Cable Using RG316 Coax



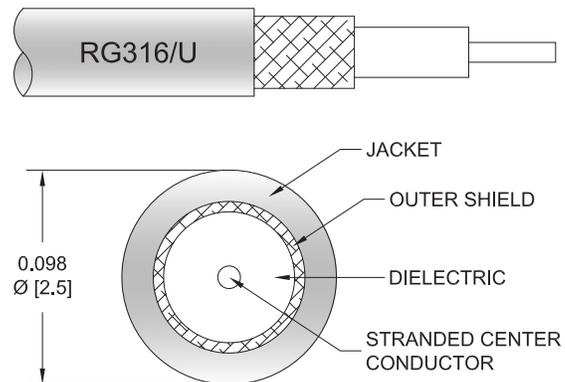
PE3W17324

Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: MCX Plug
- 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 PE3W17324 SMA female bulkhead to MCX plug 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 SMA to MCX cable assembly has a female to plug gender configuration with 50 ohm flexible RG316 coax. The PE3W17324 SMA female to MCX plug cable assembly operates to 3 GHz. Our RF cable assembly with SMA bulkhead 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.

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 | | | 1.4:1 | |
| Velocity of Propagation | | 69 | | % |
| Operating Voltage (AC) | | | 250 | Vrms |
| 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 | | 100 | 250 | 500 | 1000 | |
| PE3W17324 | 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 | |
| PE3W17324-12 | 12 inch | Insertion Loss (Typ.) | 0.31 | 0.36 | 0.44 | 0.58 | 0.78 | dB | 0.032 |
| PE3W17324-24 | 24 inch | Insertion Loss (Typ.) | 0.42 | 0.52 | 0.68 | 0.96 | 1.36 | dB | 0.043 |
| PE3W17324-36 | 36 inch | Insertion Loss (Typ.) | 0.53 | 0.68 | 0.92 | 1.34 | 1.94 | dB | 0.053 |
| PE3W17324-48 | 48 inch | Insertion Loss (Typ.) | 0.64 | 0.84 | 1.16 | 1.72 | 2.52 | dB | 0.063 |
| PE3W17324-72 | 72 inch | Insertion Loss (Typ.) | 0.86 | 1.16 | 1.63 | 2.48 | 3.68 | dB | 0.083 |

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: 0.032 pounds
 Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]
 Weight: 0.032 lbs [14.51 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 | SMA Female Bulkhead | MCX Plug |
| Specification | MIL-STD-348A | CECC 22220 |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Contact Plating Specification | 50µ in. minimum | 30 µin minimum |
| Dielectric Type | Teflon | PTFE |
| Outer Conductor Material and Plating | Brass, Gold | |
| Outer Conductor Plating Specification | 3µ in. minimum | |
| Body Material and Plating | Brass, Gold | Brass, Nickel |
| Body Plating Specification | 3µ in. minimum | 100 µin minimum |

Environmental Specifications

Operating Range Temperature -55 to +155 deg C

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

Plotted and Other Data

Notes:

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PE3W17324

Typical Performance Data

How to Order

Part Number Configuration:

PE3W17324

- xx

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

Example: PE3W17324-12 = 12 inches long cable
PE3W17324-100cm = 100 cm long cable

SMA Female Bulkhead to MCX Plug 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.

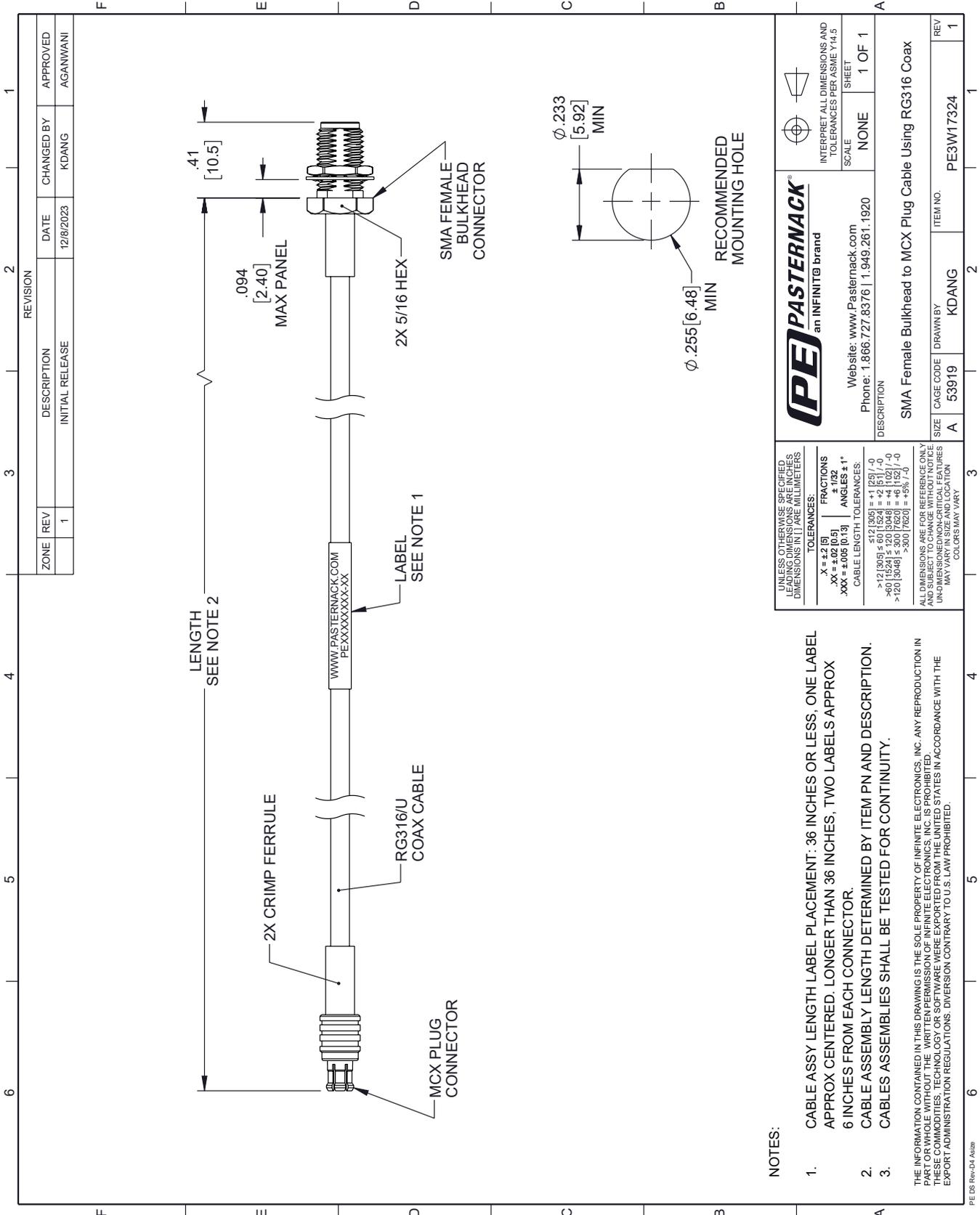
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to MCX Plug Cable Using RG316 Coax PE3W17324](#)

URL: <https://www.pasternack.com/sma-female-bulkhead-to-mcx-plug-cable-using-rg316-pe3w17324-p.aspx>

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PE3W17324 CAD Drawing

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NOTES:

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

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