

## MCX Plug Right Angle to SMA Female Bulkhead Cable Using RG316-DS Coax with HeatShrink



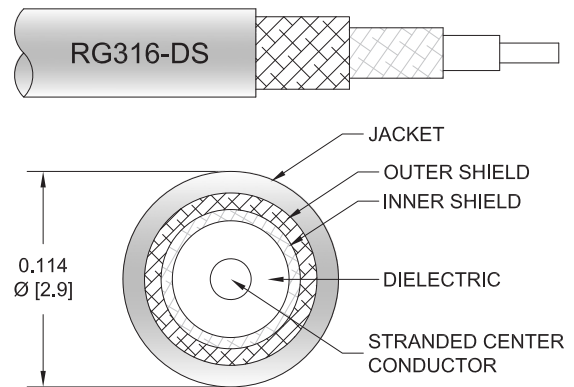
### PE38772/HS

#### Configuration

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

#### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE38772/HS MCX plug right angle to SMA female bulkhead cable using RG316-DS 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 SMA cable assembly has a plug to female gender configuration with 50 ohm flexible RG316-DS coax. The PE38772/HS MCX plug to SMA female cable assembly operates to 3 GHz. The right angle MCX interface on the RG316-DS cable allows for easier connections in tight spaces. 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. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 |         | 70           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |

#### Specifications by Frequency

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| Part Number   | Length                   | Description           | F1   | F2   | F3    | F4   | F5    | Units | Weight (lbs) |
|---------------|--------------------------|-----------------------|------|------|-------|------|-------|-------|--------------|
|               |                          | Frequency             | 100  | 250  | 500   | 1000 | 3000  | MHz   |              |
| PE38772/HS    | Custom Lengths Available | Insertion Loss (Typ.) | 0.08 | 0.13 | 0.194 | 0.29 | 0.535 | dB/ft |              |
|               |                          |                       | 0.27 | 0.42 | 0.64  | 0.96 | 1.76  | dB/m  |              |
| PE38772/HS-6  | 6 inch                   | Insertion Loss (Typ.) | 0.35 | 0.37 | 0.4   | 0.45 | 0.57  | dB    | 0.021        |
| PE38772/HS-12 | 12 inch                  | Insertion Loss (Typ.) | 0.39 | 0.43 | 0.5   | 0.59 | 0.84  | dB    | 0.028        |
| PE38772/HS-24 | 24 inch                  | Insertion Loss (Typ.) | 0.47 | 0.56 | 0.69  | 0.88 | 1.37  | dB    | 0.043        |
| PE38772/HS-36 | 36 inch                  | Insertion Loss (Typ.) | 0.55 | 0.69 | 0.89  | 1.17 | 1.91  | dB    | 0.057        |
| PE38772/HS-48 | 48 inch                  | Insertion Loss (Typ.) | 0.63 | 0.82 | 1.08  | 1.46 | 2.44  | dB    | 0.071        |

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:    | 0.2 dB         |
| Loss due to Connector 2:    | 0.1 dB         |
| Base Weight:                | 0.028 pounds   |
| Additional Weight per Inch: | 0.00117 pounds |

### Mechanical Specifications

#### Cable Assembly

|        |                    |
|--------|--------------------|
| Weight | 0.028 lbs [12.7 g] |
|--------|--------------------|

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG316-DS                   |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.114 in [2.9 mm]          |
| Repeated Minimum Bend Radius         | 0.6 in [15.24 mm]          |

### Connectors

| Description                   | Connector 1          | Connector 2            |
|-------------------------------|----------------------|------------------------|
| Type                          | MCX Plug Right Angle | SMA Female Bulkhead    |
| Impedance                     | 50 Ohms              | 50 Ohms                |
| Configuration                 | Right Angle          | Straight               |
| Contact Material and Plating  |                      | Beryllium Copper, Gold |
| Contact Plating Specification |                      | QQ-C-530               |
| Dielectric Type               |                      | Teflon                 |
| Body Material and Plating     | Brass, Nickel        | Brass, Nickel          |
| Body Plating Specification    |                      | QQ-B-626               |

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### PE38772/HS

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE38772/HS - xx uu**

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

Example: PE38772/HS-12 = 12 inches long cable  
PE38772/HS-100cm = 100 cm long cable

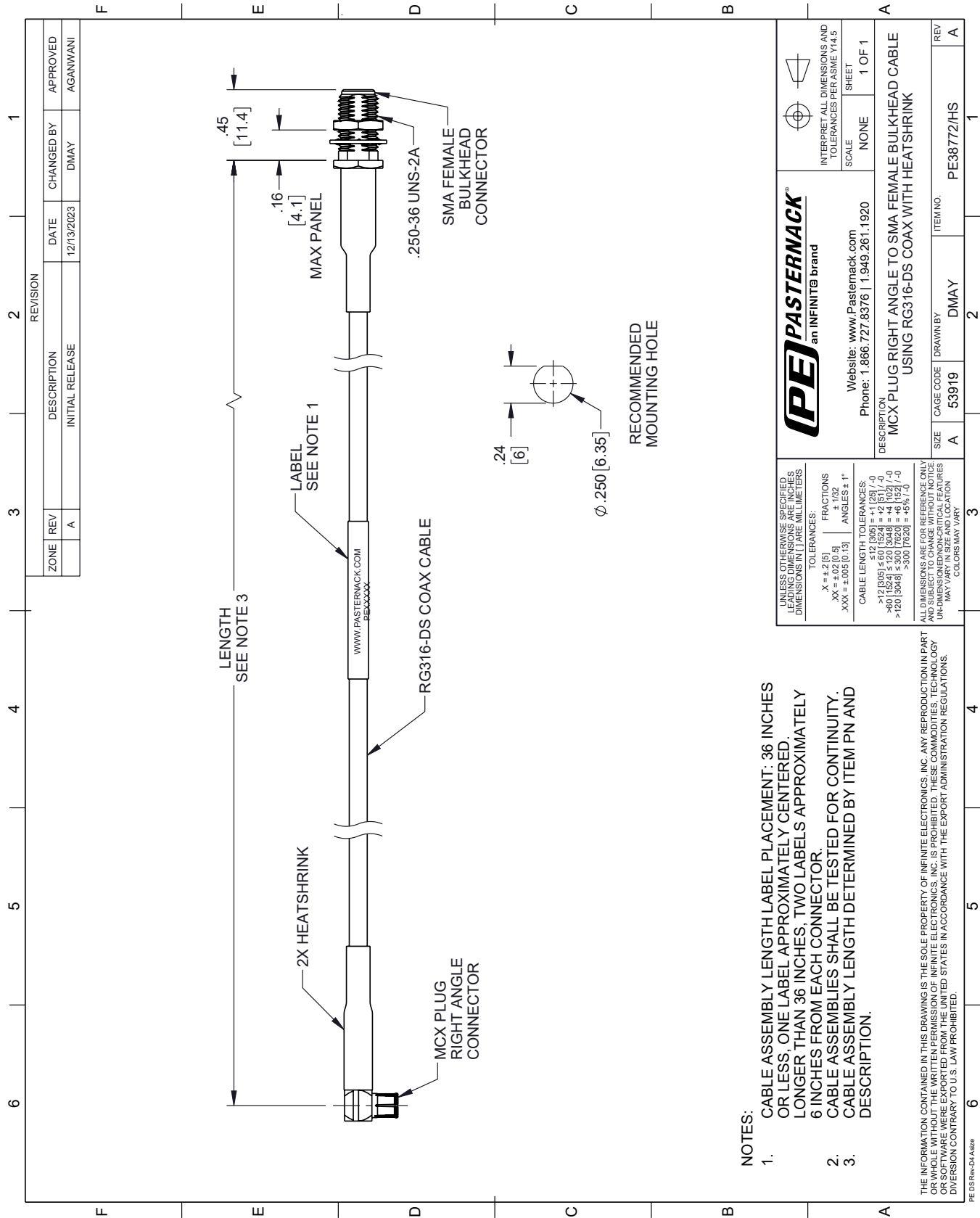
MCX Plug Right Angle to SMA Female Bulkhead Cable Using RG316-DS Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Plug Right Angle to SMA Female Bulkhead Cable Using RG316-DS Coax with HeatShrink PE38772/HS](#)

URL: <https://www.pasternack.com/mcx-plug-right-angle-to-sma-female-bulkhead-cable-using-rg316-ds-with-heatshrink-pe38772-hs-p.aspx>

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PE38772/HS CAD Drawing
MCX Plug Right Angle to SMA Female Bulkhead Cable Using RG316-DS Coax with HeatShrink



- 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 ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
  3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-D4 A size