



RF Cable Assemblies Technical Data Sheet

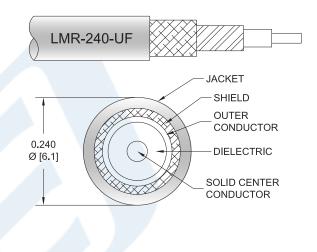
PE3W07122/HS

Configuration

- Connector 1: BNC Male
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-240-UF

Features

- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket



Applications

General Purpose

Laboratory Use

Description

Pasternack's PE3W07122/HS BNC male to SMA male right angle cable using LMR-240-UF 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 BNC to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The right angle SMA interface on the LMR-240-UF cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: BNC Male to SMA Male Right Angle Cable Using LMR-240-UF Coax with HeatShrink PE3W07122/HS





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Electrical Specifications

| Minimum | Typical | Maximum | Units |
|---------|--------------|--|--|
| | 84 | | % |
| 90 | | | dB |
| | 1.21 [3.97] | | ns/ft [ns/m] |
| | 24.2 [79.4] | | pF/ft [pF/m] |
| | 0.06 [0.2] | | uH/ft [uH/m] |
| | 4.28 [14.04] | | Ohms/1000ft [Ohms/ |
| | | | |
| | 3.89 [12.76] | | Ohms/1000ft [Ohms/ |
| | | | |
| | | 5,000 | Vrms |
| | | 84 90 1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 4.28 [14.04] | 84 90 1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 4.28 [14.04] 3.89 [12.76] |

Mechanical Specifications

Cable Assembly Diameter

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength 0.57 in [14.48 mm]

LMR-240-UF 50 Ohms Stranded Copper PE (F) 2 Aluminum Tape Tinned Copper Braid TPE, Black 0.24 in [6.1 mm]

0.75 in [19.05 mm] 2.5 in [63.5 mm] 0.13 lbs-ft [0.18 N-m] 13 lbs/in [0.23 Kg/mm] 80 lbs [36.29 Kg]

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Connectors

| Description | Connector 1 | Connector 2 | |
|------------------------------------|-----------------|------------------------|--|
| Туре | BNC Male | SMA Male Right Angle | |
| Specification | MIL-STD-348A | MIL-STD-348 | |
| Impedance | 50 Ohms | 50 Ohms | |
| Contact Material and Plating | Brass, Gold | Beryllium Copper, Gold | |
| Contact Plating Specification | 3 µin minimum | ASTM B488 | |
| Dielectric Type | PTFE | Teflon | |
| Body Material and Plating | Brass, Nickel | Brass, Tri-Metal | |
| Body Plating Specification | 100 µin minimum | | |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Tri-Metal | |
| Coupling Nut Plating Specification | 100 µin minimum | | |
| Hex Size | | 16-May Inch | |

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8$ ", whichever is greater.

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

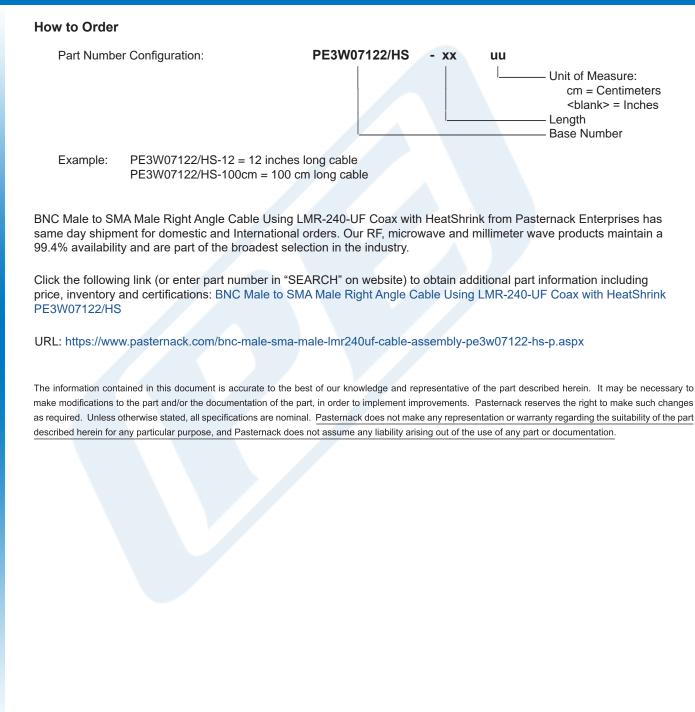
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PE3W07122/HS CAD Drawing BNC Male to SMA Male Right Angle Cable Using LMR-240-UF Coax with HeatShrink

