

4.3-10 Male to 4.3-10 Male Low Loss Cable Using LMR-240-UF Coax with Times Microwave Components



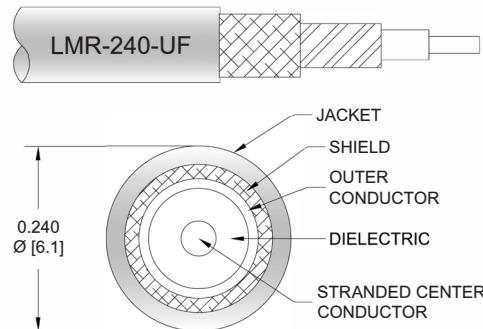
PE3C7763

Configuration

- Connector 1: 4.3-10 Male
- Connector 2: 4.3-10 Male
- Cable Type: LMR-240-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C7763 4.3-10 male to 4.3-10 male 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 4.3-10 to 4.3-10 cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3C7763 4.3-10 male to 4.3-10 male cable assembly operates to 6 GHz. 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.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 84 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.21 [3.97] | | ns/ft [ns/m] |
| Capacitance | | 24.2 [79.4] | | pF/ft [pF/m] |
| Inductance | | 0.06 [0.2] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 4.28 [14.04] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 3.89 [12.76] | | Ohms/1000ft [Ohms/Km] |

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Electrical Specifications

| Description | Minimum | Typical | | | | Maximum | Units |
|--------------|---------|---------|--|--|-------|---------|-------|
| Jacket Spark | | | | | 5,000 | | Vrms |

Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|-------|-------|-------|-------|-------|-------|--------------|
| | | Frequency | 250 | 500 | 1000 | 2500 | 6000 | MHz | |
| PE3C7763 | Custom Lengths Available | Insertion Loss (Typ.) | 0.046 | 0.066 | 0.096 | 0.155 | 0.212 | dB/ft | |
| | | | 0.16 | 0.22 | 0.32 | 0.51 | 0.7 | dB/m | |
| PE3C7763-12 | 12 inch | Insertion Loss (Typ.) | 0.25 | 0.27 | 0.3 | 0.36 | 0.42 | dB | 0.234 |
| PE3C7763-24 | 24 inch | Insertion Loss (Typ.) | 0.3 | 0.34 | 0.4 | 0.51 | 0.63 | dB | 0.267 |
| PE3C7763-36 | 36 inch | Insertion Loss (Typ.) | 0.34 | 0.4 | 0.49 | 0.67 | 0.84 | dB | 0.299 |
| PE3C7763-60 | 60 inch | Insertion Loss (Typ.) | 0.43 | 0.53 | 0.68 | 0.98 | 1.26 | dB | 0.363 |
| PE3C7763-300 | 300 inch | Insertion Loss (Typ.) | 1.35 | 1.85 | 2.6 | 4.08 | 5.5 | dB | 1.003 |

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: 0.234 pounds
Additional Weight per Inch: 0.00267 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.234 lbs [106.14 g]

Cable

Cable Type LMR-240-UF
Impedance 50 Ohms
Inner Conductor Type Stranded
Inner Conductor Material and Plating Copper
Dielectric Type PE (F)
Number of Shields 2
Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material TPE, Black
Jacket Diameter 0.24 in [6.1 mm]
One Time Minimum Bend Radius 0.75 in [19.05 mm]
Repeated Minimum Bend Radius 2.5 in [63.5 mm]
Bending Moment 0.13 lbs-ft [0.18 N-m]
Flat Plate Crush 13 lbs/in [0.23 Kg/mm]
Tensile Strength 80 lbs [36.29 Kg]

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|------------------------|------------------------|
| Type | 4.3-10 Male | 4.3-10 Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Brass, Silver | Brass, Silver |
| Contact Plating Specification | 200 μ in thickness | 200 μ in thickness |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 80 μ in thickness | 80 μ in thickness |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 80 μ in thickness | 80 μ in thickness |
| Seal Gasket Material | Silicone | Silicone |

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

Compliance Certifications

(see product page for current document)

Plotted and Other Data

Notes:

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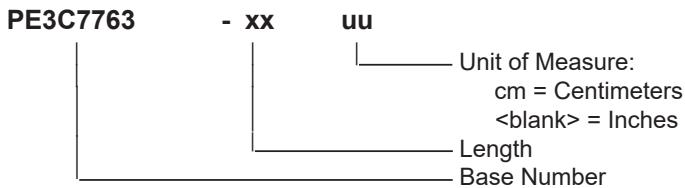


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Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C7763-12 = 12 inches long cable
PE3C7763-100cm = 100 cm long cable

4.3-10 Male to 4.3-10 Male Low Loss Cable Using LMR-240-UF Coax with Times Microwave Components 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.

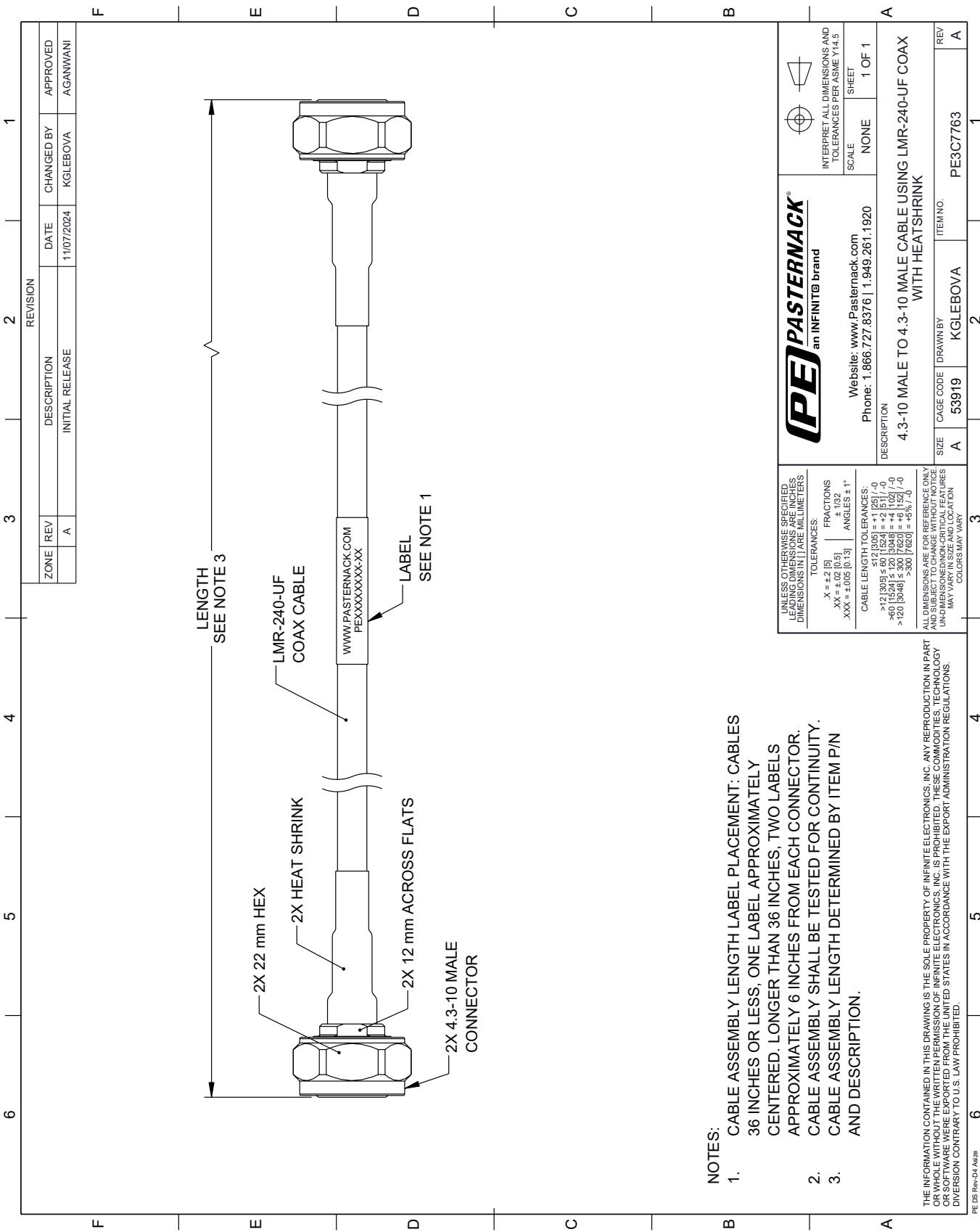
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Male to 4.3-10 Male Low Loss Cable Using LMR-240-UF Coax with Times Microwave Components PE3C7763](#)

URL: <https://www.pasternack.com/4.3-10-male-to-4.3-10-male-low-loss-cable-using-lmr-240-uf-pe3c7763-p.aspx>

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PE3C7763 CAD Drawing

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NOTES:
1. C/A
36 C/B
AP C/A
2. C/A
3. C/A

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