

QMA Male to QMA Male Low Loss Cable Using LMR-195-UF Coax with HeatShrink



PE3W13240/HS

Configuration

- Connector 1: QMA Male
- Connector 2: QMA Male
- Cable Type: LMR-195-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 74% Phase Velocity
- Double Shielded
- TPE Jacket
- 500 Mating Cycles

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W13240/HS QMA male to QMA male cable using LMR-195-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 QMA to QMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195-UF coax. The PE3W13240/HS QMA male to QMA 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 | | | 1.15:1 | |
| Velocity of Propagation | | 74 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.27 [4.17] | | ns/ft [ns/m] |
| Capacitance | | 25.4 [83.33] | | pF/ft [pF/m] |
| Inductance | | 0.064 [0.21] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 9.5 [31.17] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 4.9 [16.08] | | Ohms/1000ft [Ohms/Km] |
| Operating Voltage (AC) | | | 333 | Vrms |

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Dielectric Withstanding Voltage (AC) | | | 1,000 | Vrms |
| Jacket Spark | | | 3,000 | Vrms |

Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|------------------|--------------------------|-----------------------|-----------|-------|-------|-------|-------|-------|--------------|
| | | | Frequency | | | | | MHz | |
| PE3W13240/HS | Custom Lengths Available | Insertion Loss (Typ.) | 0.068 | 0.097 | 0.139 | 0.226 | 0.356 | dB/ft | |
| | | | 0.23 | 0.32 | 0.46 | 0.75 | 1.17 | dB/m | |
| PE3W13240/HS-12 | 12 Inch | Insertion Loss (Typ.) | 0.27 | 0.3 | 0.34 | 0.43 | 0.56 | dB | 0.051 |
| PE3W13240/HS-24 | 24 Inch | Insertion Loss (Typ.) | 0.34 | 0.4 | 0.48 | 0.66 | 0.92 | dB | 0.072 |
| PE3W13240/HS-36 | 36 Inch | Insertion Loss (Typ.) | 0.41 | 0.5 | 0.62 | 0.88 | 1.27 | dB | 0.093 |
| PE3W13240/HS-60 | 60 Inch | Insertion Loss (Typ.) | 0.54 | 0.69 | 0.9 | 1.33 | 1.98 | dB | 0.135 |
| PE3W13240/HS-300 | 300 Inch | Insertion Loss (Typ.) | 1.9 | 2.63 | 3.68 | 5.85 | 9.1 | dB | 0.555 |

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: | 0.051 pounds |
| Additional Weight per Inch: | 0.00175 pounds |

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

| | |
|----------------|--------------------|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.03 lbs [13.61 g] |

Cable

| | |
|--------------------------------------|------------------------|
| Cable Type | LMR-195-UF |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | Foam PE |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper |
| Jacket Material | TPE, Black |
| Jacket Diameter | 0.195 in [4.95 mm] |
| One Time Minimum Bend Radius | 0.5 in [12.7 mm] |
| Repeated Minimum Bend Radius | 2 in [50.8 mm] |
| Bending Moment | 0.1 lbs-ft [0.14 N-m] |
| Flat Plate Crush | 10 lbs/in [0.18 Kg/mm] |
| Tensile Strength | 40 lbs [18.14 Kg] |

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Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|----------------------------|----------------------------|
| Type | QMA Male | QMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | Phosphor Bronze, Tri-Metal | Phosphor Bronze, Tri-Metal |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.



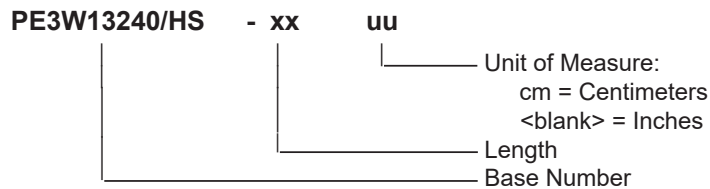
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Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W13240/HS-12 = 12 inches long cable
PE3W13240/HS-100cm = 100 cm long cable

QMA Male to QMA Male Low Loss Cable Using LMR-195-UF 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: [QMA Male to QMA Male Low Loss Cable Using LMR-195-UF Coax with HeatShrink PE3W13240/HS](#)

URL: <https://www.pasternack.com/qma-male-to-qma-male-low-loss-cable-using-lmr-195-uf-with-heatshrink-pe3w13240-hs-p.aspx>

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PE3W13240/HS CAD Drawing

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