

Low Loss N Female Bulkhead to N Male Cable LMR-600-UF Coax

FMCA100267



Configuration

- Connector 1: N Female Bulkhead
- Connector 2: N Male
- Cable Type: LMR-600-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- TPE Jacket

Applications

- General Purpose
- Laboratory Use

Description

The type N female bulkhead to type N male cable using LMR-600-UF coax, part number FMCA100267, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a female to male gender configuration with 50 ohm flexible LMR-600-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100267 type N female to type N male cable assembly operates to 8 GHz. Our RF cable assembly with type N 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 Fairview 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 RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. 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 | | 8 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 87 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.17 [3.84] | | ns/ft [ns/m] |
| Capacitance | | 23.4 [76.77] | | pF/ft [pF/m] |
| Inductance | | 0.058 [0.19] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 0.43 [1.41] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 1.2 [3.94] | | Ohms/1000ft [Ohms/Km] |

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------|---------|---------|---------|-------|
| Jacket Spark | | | 8,000 | Vrms |

Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|----------------|--------------------------|-----------------------|-------|-------|-------|-------|-------|-------|--------------|
| | | Frequency | 500 | 1000 | 2000 | 4000 | 8000 | MHz | |
| FMCA100267 | Custom Lengths Available | Insertion Loss (Typ.) | 0.022 | 0.032 | 0.047 | 0.062 | 0.087 | dB/ft | |
| | | | 0.08 | 0.11 | 0.16 | 0.21 | 0.29 | dB/m | |
| FMCA100267-12 | 12 inch | Insertion Loss (Typ.) | 0.23 | 0.24 | 0.25 | 0.27 | 0.29 | dB | 0.424 |
| FMCA100267-24 | 24 inch | Insertion Loss (Typ.) | 0.25 | 0.27 | 0.3 | 0.33 | 0.38 | dB | 0.601 |
| FMCA100267-36 | 36 inch | Insertion Loss (Typ.) | 0.27 | 0.3 | 0.35 | 0.39 | 0.47 | dB | 0.777 |
| FMCA100267-60 | 60 inch | Insertion Loss (Typ.) | 0.31 | 0.36 | 0.44 | 0.51 | 0.64 | dB | 1.129 |
| FMCA100267-300 | 300 inch | Insertion Loss (Typ.) | 0.75 | 1 | 1.38 | 1.75 | 2.38 | dB | 4.649 |

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: | 0.424 pounds |
| Additional Weight per Inch: | 0.01467 pounds |

Mechanical Specifications

Cable Assembly

| | |
|----------------|----------------------|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.424 lbs [192.32 g] |

Cable

| | |
|--------------------------------------|------------------------|
| Cable Type | LMR-600-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 | 0.59 in [14.99 mm] |
| One Time Minimum Bend Radius | 1.5 in [38.1 mm] |
| Repeated Minimum Bend Radius | 6 in [152.4 mm] |
| Bending Moment | 1.75 lbs-ft [2.37 N-m] |
| Flat Plate Crush | 40 lbs/in [0.71 Kg/mm] |
| Tensile Strength | 350 lbs [158.76 Kg] |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|-----------------------|------------------|
| Type | N Female Bulkhead | N Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Mating Cycles | 500 | |
| Contact Material and Plating | Phosphor Bronze, Gold | Brass, Gold |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Material and Plating | | Brass, Tri-Metal |

Environmental Specifications

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

Plotted and Other Data

Notes:

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FMCA100267

Typical Performance Data

How to Order

Part Number Configuration: **FMCA100267** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: FMCA100267-12 = 12 inches long cable
 FMCA100267-100cm = 100 cm long cable

Low Loss N Female Bulkhead to N Male Cable LMR-600-UF Coax from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Low Loss N Female Bulkhead to N Male Cable LMR-600-UF Coax FMCA100267](https://www.fairviewmicrowave.com/low-loss-n-female-bulkhead-to-n-male-cable-lmr-600-uf-coax-fmca100267-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-n-female-bulkhead-to-n-male-cable-lmr-600-uf-coax-fmca100267-p.aspx>

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FMCA100267 CAD Drawing
Low Loss N Female Bulkhead to N Male Cable LMR-600-UF Coax

