

Fire Rated Low Loss RA N Male to 7/16 DIN Male Cable LMR-600-FR Coax

The RA type N male to 7/16 DIN male cable using LMR-600-FR coax, part number FMC00989, from Fairview Microwave is in-stock and ships same day. This Fairview type N to 7/16 DIN cable assembly has a male to male gender configuration with 50 ohm flexible LMR-600-FR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00989 type N male to 7/16 DIN male cable assembly operates to 5.8 GHz. The right angle type N interface on the LMR-600-FR cable allows for easier connections in tight spaces. 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 | Min | Typ | Max | Units |
|-------------------------------|-----|--------------|-------|----------------------------------|
| Frequency Range | DC | | 5.8 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 85 | | % |
| 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 | | 0.53 [1.74] | | Ω /1000ft [Ω /Km] |
| DC Resistance Outer Conductor | | 1.2 [3.94] | | Ω /1000ft [Ω /Km] |
| Jacket Spark | | | 8,000 | Vrms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.012 | 0.017 | 0.026 | 0.044 | 0.073 | dB/ft |
| | 0.04 | 0.06 | 0.09 | 0.14 | 0.24 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the 7/16 DIN connector and 0.2 dB for the N connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]
 Weight 0.567 lbs [257.19 g]

Cable

Cable Type LMR-600-FR



Configuration:

- N Male Right Angle
- 7/16 DIN Male
- LMR-600-FR

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket

Applications:

- General Purpose
- Laboratory Use

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| | |
|--------------------------------------|--------------------|
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| 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 | PE, 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 | 2.75 lbs-ft [3.73 N-m] |
| Flat Plate Crush | 60 lbs/in [1.07 Kg/mm] |
| Tensile Strength | 350 lbs [158.76 Kg] |

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|------------------------|------------------|
| Type | N Male | 7/16 DIN Male |
| Specification | | IEC 169-4 |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Beryllium Copper, Gold | Brass, Silver |
| Contact Plating Spec. | 1.27µm minimum | |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Spec. | 2µm minimum | |
| Coupling Nut Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Spec. | 2µm minimum | |
| Hex Size | 20.57 mm | |
| Torque | 44 in-lbs 4.97 Nm | |

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC00989 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMC00989-12 = 12 inches long cable
 FMC00989-100cm = 100 cm long cable

Fire Rated Low Loss RA N Male to 7/16 DIN Male Cable LMR-600-FR Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Fire Rated Low Loss RA N Male to 7/16 DIN Male Cable LMR-600-FR Coax FMC00989](https://www.fairviewmicrowave.com/fire-rated-low-loss-ra-n-male-to-7-16-din-male-cable-lmr-600-fr-coax-fmc00989)

URL: <https://www.fairviewmicrowave.com/fire-rated-low-loss-ra-n-male-to-7-16-din-male-cable-lmr-600-fr-coax-fmc00989-p.aspx>

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