

Low Loss N Female Bulkhead to 7/16 DIN Male Cable LMR-600-DB Coax in 150 CM

The type N female bulkhead to 7/16 DIN male 150 cm cable using LMR-600-DB coax, part number FMC00284-150CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to 7/16 DIN cable assembly has a female to male gender configuration with 50 ohm flexible LMR-600-DB coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00284-150CM type N female to 7/16 DIN male cable assembly operates to 5.8 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 | Min | Typ | Max | Units |
|-------------------------------|--------------|-------|-----------------|-------|
| Frequency Range | DC | | 5.8 | GHz |
| 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 | 0.53 [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.) | 0.26 | 0.29 | 0.33 | 0.42 | 0.56 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

| | |
|----------|----------------------|
| Length* | 59.05 in [149.99 cm] |
| Diameter | 0.827 in [21.01 mm] |



Configuration:

- N Female Bulkhead
- 7/16 DIN Male
- LMR-600-DB

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- PE Jacket

Applications:

- General Purpose
- Laboratory Use

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Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | LMR-600-DB |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Aluminum |
| Dielectric Type | PE (F) |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper Braid |
| 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 Female | 7/16 DIN Male |
| Mount Method | Bulkhead | |
| Specification | | IEC 169-4 |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Beryllium Copper, Gold | Brass, Silver |
| Dielectric Type | Teflon | PTFE |
| Body Material & Plating | Brass, Silver | Brass, Tri-Metal |
| Coupling Nut Material & Plating | | Brass, Tri-Metal |

Environmental Specifications
Temperature

| | |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
| Storage Range | -70 to +85 deg C |

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC00284 - xx uu

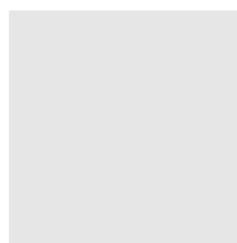
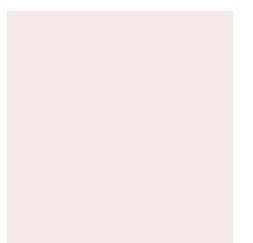
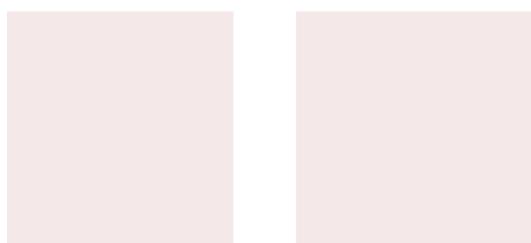

Example: FMC00284-12 = 12 inches long cable
 FMC00284-100cm = 100 cm long cable

Low Loss N Female Bulkhead to 7/16 DIN Male Cable LMR-600-DB Coax in 150 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

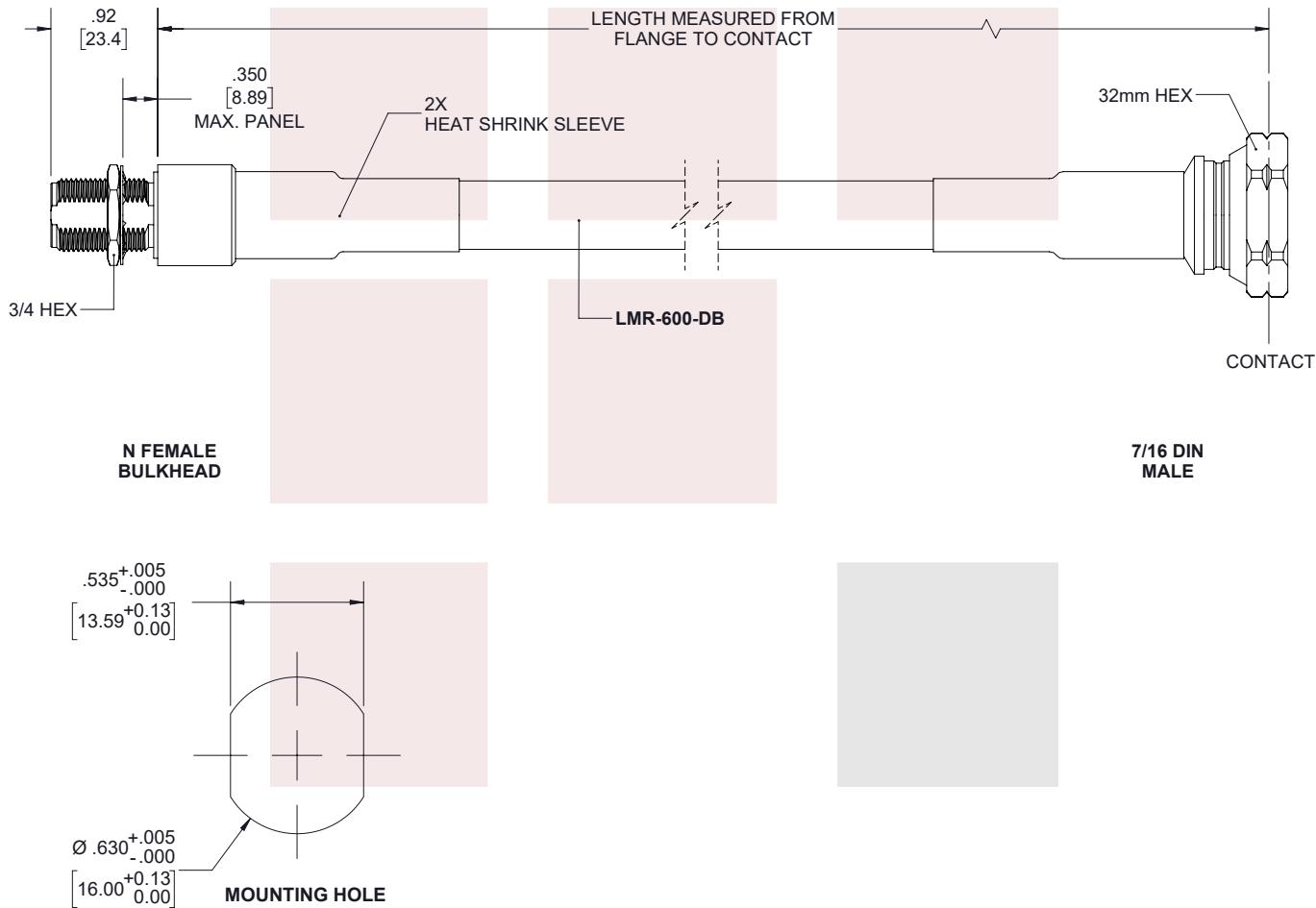
Click the following link to obtain additional part information: [Low Loss N Female Bulkhead to 7/16 DIN Male Cable LMR-600-DB Coax in 150 CM FMC00284-150CM](https://www.fairviewmicrowave.com/low-loss-n-female-7-16-din-male-cable-lmr600db-coax-fmc00284-150cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-n-female-7-16-din-male-cable-lmr600db-coax-fmc00284-150cm-p.aspx>

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| REVISIONS | | | |
|-----------|-----------------|-----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 2/24/2020 | S.ELLIS |



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| TITLE | | TOLERANCES: $.X = \pm .2$ [5.08] FRACTIONS $.XX = \pm .02$ [.51] $\pm 1/32$ $XXX = \pm .005$ [.13] ANGLES $\pm 1^\circ$ | CABLE LENGTH (L) TOLERANCES: $L \leq 12$ [305] = ± 1 [25] / -0 $12 [305] < L \leq 60$ [1524] = ± 2 [51] / -0 $60 [1524] < L \leq 120$ [3048] = ± 4 [102] / -0 $120 [3048] < L \leq 300$ [7620] = ± 6 [152] / -0 $300 [7620] < L = \pm 5\%$ / -0 |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | | | SCALE N/A |
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY K.DANG | ITEM NO. FMC00284 REV A |

T-Rev.D