

## Low Loss 7/16 DIN Male to 7/16 DIN Male Cable LMR-600-DB Coax

**FMC00018**

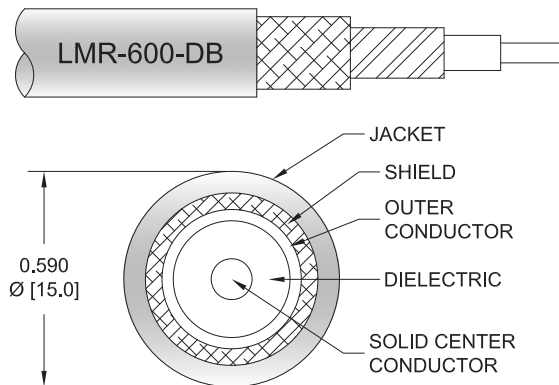


### Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: 7/16 DIN Male
- Cable Type: LMR-600-DB
- Coax Flex Type: Flexible

### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- PE Jacket



### Applications

- General Purpose
- Laboratory Use

### Description

The 7/16 DIN male to 7/16 DIN male cable using LMR-600-DB coax, part number FMC00018, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to 7/16 DIN cable assembly has a male 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 FMC00018 7/16 DIN male to 7/16 DIN male cable assembly operates to 6 GHz. 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		6	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		0.53 [1.74]		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	250	500	1000	2500	6000	MHz	
FMC00018	Custom Lengths Available	Insertion Loss (Typ.)	0.01 0.04	0.02 0.06	0.026 0.09	0.044 0.15	0.073 0.24	dB/ft dB/m	
FMC00018-12	12 inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.25	0.28	dB	0.52
FMC00018-36	36 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.34	0.42	dB	0.793
FMC00018-48	48 inch	Insertion Loss (Typ.)	0.25	0.27	0.31	0.38	0.5	dB	0.929
FMC00018-180	180 inch	Insertion Loss (Typ.)	0.38	0.46	0.59	0.86	1.3	dB	2.426
FMC00018-240	240 inch	Insertion Loss (Typ.)	0.44	0.54	0.72	1.08	1.66	dB	3.106

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:	0.52 pounds
Additional Weight per Inch:	0.01134 pounds

### Mechanical Specifications

#### Cable Assembly

Weight	0.52 lbs [235.87 g]
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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]

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Male Cable LMR-600-DB Coax

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Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	7/16 DIN Male
Specification	IEC 61169-4	IEC 61169-4
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut 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:

## Low Loss 7/16 DIN Male to 7/16 DIN Male Cable LMR-600-DB Coax



### FMC00018

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**FMC00018**

**- xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: FMC00018-12 = 12 inches long cable  
FMC00018-100cm = 100 cm long cable

Low Loss 7/16 DIN Male to 7/16 DIN Male Cable LMR-600-DB 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 7/16 DIN Male to 7/16 DIN Male Cable LMR-600-DB Coax FMC00018](#)

URL: <https://www.fairviewmicrowave.com/low-loss-7-16-din-male-to-7-16-din-male-cable-lmr-600-db-coax-fmc00018-p.aspx>

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FMC00018 CAD Drawing
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