

Low Loss 7/16 DIN Male to 7/16 DIN Male Cable LMR-600-UF Coax With Times Microwave Components

The 7/16 DIN male to 7/16 DIN male cable using LMR-600-UF coax, part number FMCA3198, 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-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3198 7/16 DIN male to 7/16 DIN male cable assembly operates to 3 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	Min	Typ	Max	Units
Frequency Range	DC		3	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]		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	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.009	0.014	0.022	0.031	0.058	dB/ft
	0.03	0.05	0.07	0.1	0.19	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.78 lbs [353.8 g]

Cable

Cable Type LMR-600-UF
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper



Configuration:

- 7/16 DIN Male
- 7/16 DIN Male
- LMR-600-UF

Features:

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- TPE Jacket

Applications:

- General Purpose
- Laboratory Use

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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]

Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	7/16 DIN Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Copper, Silver	Copper, Silver
Contact Plating Spec.	196µ in. minimum	196µ in. minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	78µ in. minimum	78µ in. minimum
Coupling Nut Material & Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Spec.	196µ in. minimum	196µ in. minimum
Hex Size	1 1/4 in	1 1/4 in
Torque	18.417 ft-lbs 24.97 Nm	18.417 ft-lbs 24.97 Nm

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA3198 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA3198-12 = 12 inches long cable
 FMCA3198-100cm = 100 cm long cable

Low Loss 7/16 DIN Male to 7/16 DIN Male Cable LMR-600-UF Coax With Times Microwave Components 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: [Low Loss 7/16 DIN Male to 7/16 DIN Male Cable LMR-600-UF Coax With Times Microwave Components FMCA3198](#)

URL: <https://www.fairviewmicrowave.com/low-loss-7-16-din-male-to-7-16-din-male-cable-lmr-600-uf-coax-with-times-microwave-components-fmca3198-p.aspx>

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