

Fire Rated Low PIM 7/16 DIN Male to 7/16 DIN Male Cable TCOM-600-FR Coax With Times Microwave Components



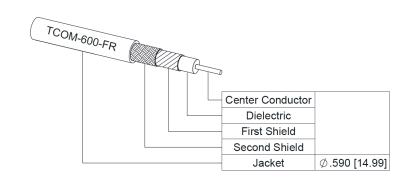
FMCA100126

Configuration

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

Features

- · Max Frequency 6 GHz
- · Shielding Effectivity > 100 dB
- · 87% Phase Velocity
- · Double Shielded
- · PE Jacket
- · 500 Mating Cycles



Applications

· General Purpose

· Laboratory Use

Low PIM Applications

Description

The 7/16 DIN male to 7/16 DIN male cable using TCOM-600-FR coax, part number FMCA100126, 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 TCOM-600-FR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. Our low PIM design offers excellent passive intermodulation performance. The FMCA100126 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 100 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	100		dB	
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Passive Intermodulation		-155		dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
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]



Fire Rated Low PIM 7/16 DIN Male to 7/16 DIN Male Cable TCOM-600-FR Coax With Times Microwave Components



FMCA100126

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
DC Resistance Outer Conductor		1.52 [4.99]		Ohms/1000ft [Ohms/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency

Dart Number	Part Number Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Number		Frequency	250	500	1000	2500	6000	MHz	
FMCA100126	Custom Lengths	Insertion Loss (Typ.)	0.013	0.019	0.028	0.046	0.077	dB/ft	
FIVICATUUTZB	Available		0.05	0.07	0.1	0.16	0.26	dB/m	
FMCA100126-24	24 inch	Insertion Loss (Typ.)	0.52	0.53	0.55	0.59	0.65	dB	0.708
FMCA100126-36	36 inch	Insertion Loss (Typ.)	0.53	0.55	0.58	0.63	0.73	dB	0.862
FMCA100126-48	48 inch	Insertion Loss (Typ.)	0.55	0.57	0.61	0.68	0.8	dB	1.016
FMCA100126-120	120 inch	Insertion Loss (Typ.)	0.62	0.68	0.77	0.95	1.26	dB	1.94
FMCA100126-180	180 inch	Insertion Loss (Typ.)	0.69	0.78	0.91	1.18	1.65	dB	2.71

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: 0.245 dB Loss due to Connector 2: 0.245 dB Base Weight: 0.554 pounds Additional Weight per Inch: 0.01283 pounds

Mechanical Specifications

Cable Assembly

Shield Layer 1

Width/Diameter 0.5 in [12.7 mm] Weight 0.554 lbs [251.29 g]

Cable

Cable Type TCOM-600-FR Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type PE (F) Number of Shields

Shield Layer 2 **Tinned Copper Braid** Jacket Material PE, Black

Jacket Diameter 0.59 in [14.99 mm] 1.5 in [38.1 mm] One Time Minimum Bend Radius 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]

Silver Plated Copper Braid



Fire Rated Low PIM 7/16 DIN Male to 7/16 DIN Male Cable TCOM-600-FR Coax With Times Microwave Components



FMCA100126

Connectors

Description	Connector 1	Connector 2
Туре	7/16 DIN Male	7/16 DIN Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body 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:



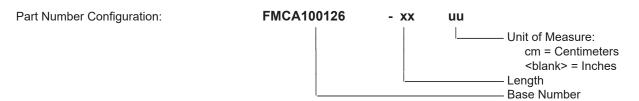
Fire Rated Low PIM 7/16 DIN Male to 7/16 DIN Male Cable TCOM-600-FR Coax With Times Microwave Components



FMCA100126

Typical Performance Data

How to Order



Example: FMCA100126-12 = 12 inches long cable

FMCA100126-100cm = 100 cm long cable

Fire Rated Low PIM 7/16 DIN Male to 7/16 DIN Male Cable TCOM-600-FR Coax With Times Microwave Components 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: Fire Rated Low PIM 7/16 DIN Male to 7/16 DIN Male Cable TCOM-600-FR Coax With Times Microwave Components FMCA100126

URL: https://www.fairviewmicrowave.com/fire-rated-low-pim-7-16-din-male-to-7-16-din-male-cable-tcom-600-fr-coax-with-times-microwave-components-fmca100126-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMCA100126 CAD Drawing

Fire Rated Low PIM 7/16 DIN Male to 7/16 DIN Male Cable TCOM-600-FR Coax With Times Microwave Components

