

Low Loss 4.3-10 Male to 4.3-10 Male Cable LMR-400-UF Coax with Times Microwave Components with LF Solder



FMCA100257

Configuration

Connector 1: 4.3-10 Male
Connector 2: 4.3-10 Male
Cable Type: LMR-400-UF
Coax Flex Type: Flexible

Features

- · Max Frequency 6 GHz
- · Shielding Effectivity > 90 dB
- · 85% Phase Velocity
- · Double Shielded
- TPE Jacket
- · 500 Mating Cycles

Applications

· General Purpose

· Laboratory Use

Description

The 4.3-10 male to 4.3-10 male cable using LMR-400-UF coax, part number FMCA100257, from Fairview Microwave is in-stock and ships same day. This Fairview 4.3-10 to 4.3-10 cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100257 4.3-10 male to 4.3-10 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		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.07 [3.51]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

pecifications by Free	ueney	Description	F1	F2	F3	F4	F5	Units	
Part Number	Length	Frequency	250	500	1000	2500	6000	MHz	Weight (lbs)
FN4CA1002F7	Custom Lengths	Insertion Loss (Typ.)	0.023	0.035	0.05	0.081		dB/ft	
FMCA100257	Available		0.08	0.12	0.17	0.27	0.37	dB/m	
FMCA100257-12	12 inch	Insertion Loss (Typ.)	0.23	0.24	0.25	0.29	0.32	dB	0.279
FMCA100257-24	24 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.37	0.43	dB	0.366
FMCA100257-36	36 inch	Insertion Loss (Typ.)	0.27	0.31	0.35	0.45	0.54	dB	0.453
FMCA100257-60	60 inch	Insertion Loss (Typ.)	0.32	0.38	0.45	0.61	0.76	dB	0.627
FMCA100257-300	300 inch	Insertion Loss (Typ.)	0.78	1.08	1.45	2.23	3	dB	2.367

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: 0.279 pounds
Additional Weight per Inch: 0.00725 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.279 lbs [126.55 g]

Cable

Cable TypeLMR-400-UFImpedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopperDielectric TypePE (F)Number of Shields2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material TPE, Black

 Jacket Diameter
 0.405 in [10.29 mm]

 One Time Minimum Bend Radius
 1 in [25.4 mm]

 Repeated Minimum Bend Radius
 4 in [101.6 mm]

 Bending Moment
 0.38 lbs-ft [0.52 N-m]

 Flat Plate Crush
 20 lbs/in [0.36 Kg/mm]

 Tensile Strength
 160 lbs [72.57 Kg]



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Connectors

Description	Connector 1	Connector 2
Туре	4.3-10 Male	4.3-10 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
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Seal Gasket Material	Silicone	Silicone

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



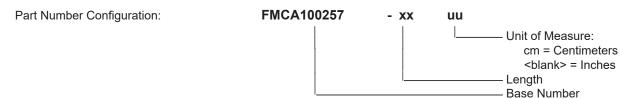
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Typical Performance Data

How to Order



Example: FMCA100257-12 = 12 inches long cable

FMCA100257-100cm = 100 cm long cable

Low Loss 4.3-10 Male to 4.3-10 Male Cable LMR-400-UF Coax with Times Microwave Components with LF Solder 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 4.3-10 Male to 4.3-10 Male Cable LMR-400-UF Coax with Times Microwave Components with LF Solder FMCA100257

URL: https://www.fairviewmicrowave.com/low-loss-4.3-10-male-to-4.3-10-male-cable-lmr-400-uf-coax-with-times-microwave-components-with-lf-solder-fmca100257-p.aspx

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FMCA100257 CAD Drawing

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