

Low Loss RA TNC Male to TNC Female Bulkhead Cable LL160 Coax

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FMCA1694

Configuration

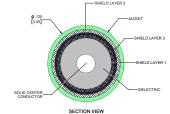
Connector 1: TNC Male Right AngleConnector 2: TNC Female Bulkhead

Cable Type: LL160Coax Flex Type: Flexible

Features

- · Max Frequency 18 GHz
- Shielding Effectivity > -90 dB
- · 82.5% Phase Velocity
- · Triple Shielded
- FEP Jacket
- Low VSWR of 1.5:1 to 18 GHz
- · -55 to +150 Temperature Range
- · Expanded PTFE Tape Dielectric
- · Same Day Shipment of Custom Lengths

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Applications

- · General Purpose
- · Laboratory Use

- Automated Test Systems
- · Military Electronics

- · Phased Array Antennas
- RF Countermeasures

Description

The RA TNC Male to TNC Female Bulkhead low loss cable using LL160 coax, part number FMCA1694, from Fairview Microwave is in-stock and ships same day. This TNC to TNC low loss cable assembly features a 82.5% velocity dielectric manufactured from expanded PTFE tape. This microporous dielectric contributes to the low loss and phase stability of the cables. Our triple shielded coaxial cable construction of Fairview's low loss LL160 provides shielding levels as high as 95 dB. The precision connections are constructed with stainless steel bodies and high temperature insulators, supporting a wide range of temperature from -55 to +165 degrees C. This solid combination of connectors and low loss coax are further enhanced with the addition of heavy-duty heat shrink for improved strain relief for this superior quality RF cable assembly.

Fairview's RATNC Male to TNC Female Bulkhead low loss cable FMCA1694 datasheet, specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and high speed digital connections allows designers to configure and customize their signals however they like. From reducing losses or improving phase stability, Fairview microwave has the right low loss cable solutions to meet your needs.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.5:1	
Velocity of Propagation		82.5		%
RF Shielding	-90			



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Capacitance		25 [82.02]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.1	0.14	0.22	0.32	0.46	dB/ft
	0.33	0.46	0.72	1.05	1.51	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss for the straight connector is estimated as 0.04*SQRT(F(GHz)) dB maximum. Insertion Loss for the right angle connector is estimated as 0.10*SQRT(F(GHz))dB maximum.

Mechanical Specifications

Cable Assembly

Cable

Cable Type LL160
Impedance 50 Ohms
Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Silver

Dielectric Type PTFE
Number of Shields 3

Shield Layer 1 Silver Plated Copper Shield Layer 2 Aluminum Polyester Shield Layer 3 Silver Plated Copper Jacket Material Silver Plated Copper FEP

Jacket Diameter 0.16 in [4.06 mm] Repeated Minimum Bend Radius 0.8 in [20.32 mm]

Connectors

Description	Connector 1	Connector 2
Туре	TNC Male Right Angle	TNC Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488	ASTM-B488
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Passivated Stainless Steel
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material and Plating	Passivated Stainless Steel	



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Environmental Specifications

Operating Range Temperature

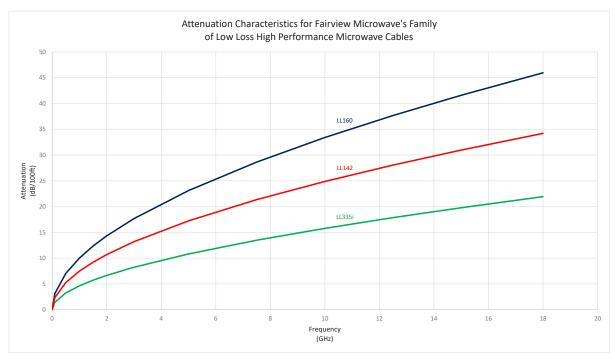
-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

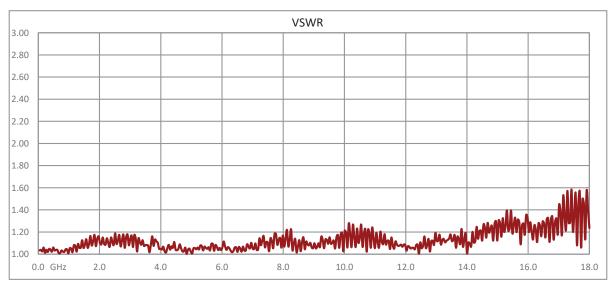
Typical Performance Data

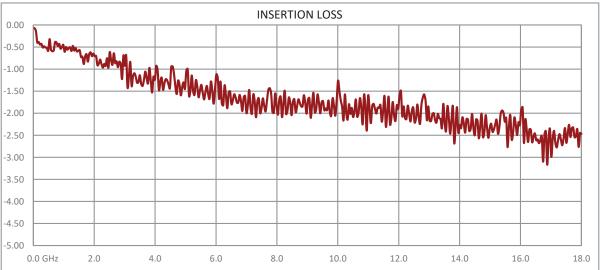




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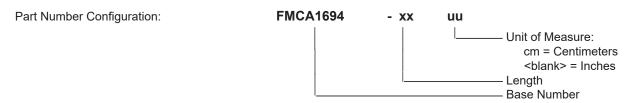


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How to Order



Example: FMCA1694-12 = 12 inches long cable FMCA1694-100cm = 100 cm long cable

Low Loss RA TNC Male to TNC Female Bulkhead Cable LL160 Coax from Fairview Microwave is in-stock and available to ship sameday. 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 RATNC Male to TNC Female Bulkhead Cable LL160 Coax FMCA1694

URL: https://www.fairviewmicrowave.com/low-loss-ra-tnc-male-tnc-female-cable-ll160-coax-fmca1694-p.aspx

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