

Non-Magnetic BNC Female Bulkhead to BNC Female Bulkhead Cable FM-SR141-NM Coax

FMCA100393



Configuration

- Connector 1: BNC Female Bulkhead
- Connector 2: BNC Female Bulkhead
- Cable Type: FM-SR141-NM
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 165 dB
- 69.5% Phase Velocity
- Copper Jacket
- 500 Mating Cycles

Applications

- General Purpose
- Laboratory Use

Description

The BNC female bulkhead to BNC female bulkhead cable using FM-SR141-NM coax, part number FMCA100393, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to BNC cable assembly has a female to female gender configuration with 50 ohm semi-rigid FM-SR141-NM coax. Fairview Microwave's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. The FMCA100393 BNC female to BNC female cable assembly operates to 4 GHz. Our RF cable assembly with BNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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		4	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	165			dB
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

Non-Magnetic BNC Female Bulkhead to BNC Female Bulkhead Cable FM-SR141-NM Coax

FMCA100393



Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	500	1000	2500	4000	MHz	
FMCA100393	Custom Lengths Available	Insertion Loss (Typ.)	0.076	0.111	0.174	0.237	dB/ft	
			0.25	0.37	0.58	0.78	dB/m	
FMCA100393-6	6 inch	Insertion Loss (Typ.)	0.44	0.46	0.49	0.52	dB	0.136
FMCA100393-12	12 inch	Insertion Loss (Typ.)	0.48	0.52	0.58	0.64	dB	0.145
FMCA100393-24	24 inch	Insertion Loss (Typ.)	0.56	0.63	0.75	0.88	dB	0.164
FMCA100393-36	36 inch	Insertion Loss (Typ.)	0.63	0.74	0.93	1.12	dB	0.182
FMCA100393-60	60 inch	Insertion Loss (Typ.)	0.78	0.96	1.27	1.59	dB	0.219

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: 0.2 dB
 Loss due to Connector 2: 0.2 dB
 Base Weight: 0.145 pounds
 Additional Weight per Inch: 0.00153 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.145 lbs [65.77 g]

Cable

Cable Type FM-SR141-NM
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Silver Plated Copper
 Dielectric Type PTFE
 Number of Shields 1
 Outer Conductor 1 Material and Plating Copper
 Jacket Material Copper
 Repeated Minimum Bend Radius 0.25 in [6.35 mm]

Connectors

Description	Connector 1	Connector 2
Type	BNC Female Bulkhead	BNC Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold over Copper	Beryllium Copper, Gold over Copper
Body Material and Plating	BZ4, Copper-Tin-Zinc Alloy	BZ4, Copper-Tin-Zinc Alloy

Environmental Specifications

Operating Range Temperature -55 to +125 deg C

Non-Magnetic BNC Female Bulkhead to BNC Female Bulkhead Cable FM-SR141-NM Coax



FMCA100393

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

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:

FMCA100393

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

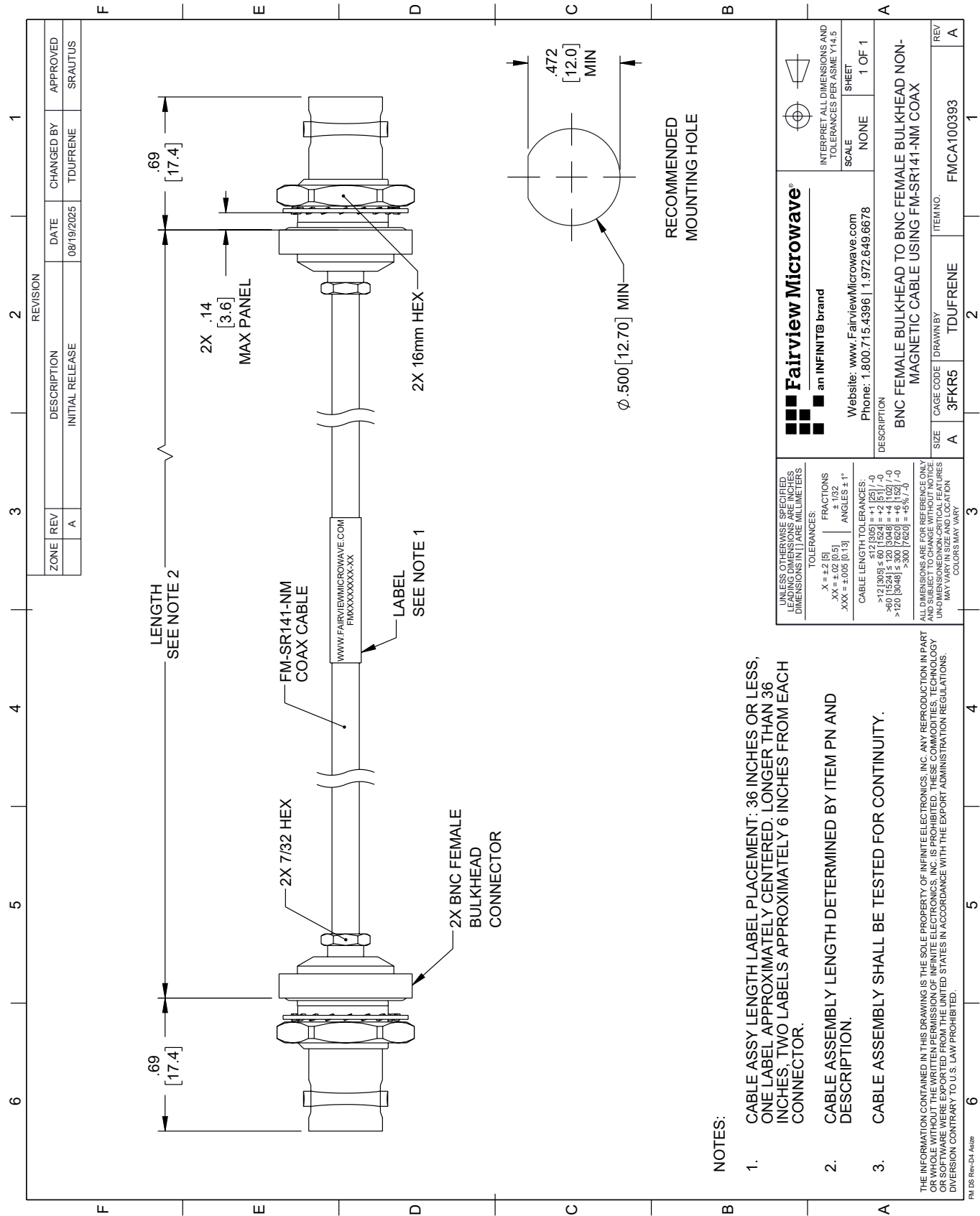
Example: FMCA100393-12 = 12 inches long cable
FMCA100393-100cm = 100 cm long cable

Non-Magnetic BNC Female Bulkhead to BNC Female Bulkhead Cable FM-SR141-NM 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: [Non-Magnetic BNC Female Bulkhead to BNC Female Bulkhead Cable FM-SR141-NM Coax FMCA100393](#)

URL: <https://www.fairviewmicrowave.com/non-magnetic-bnc-female-bulkhead-to-bnc-female-bulkhead-cable-fm-sr141-nm-coax-fmca100393-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 implement 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.



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.