

2.92mm Male to 2.92mm Female Bulkhead Cable FM-SR086TBJ Coax

The 2.92mm male to 2.92mm female bulkhead cable using FM-SR086TBJ coax, part number FMCA3262, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.92mm cable assembly has a male to female gender configuration with 50 ohm formable FM-SR086TBJ coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA3262 2.92mm male to 2.92mm female cable assembly operates to 40 GHz. Our RF cable assembly with 2.92mm 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	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		$\Omega/1000\text{ft}$ [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		$\Omega/1000\text{ft}$ [Ω/Km]
Operating Voltage (AC)			335	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20		GHz
Insertion Loss (Typ.)	0.346	0.549	0.812	1.2		dB/ft
	1.14	1.8	2.66	3.94		dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.04 \times \sqrt{f(\text{GHz})}$ dB for the male connector and 0.1 dB for the female connector.

Mechanical Specifications

Cable Assembly

Weight 0.04 lbs [18.14 g]

Cable

Cable Type FM-SR086TBJ
 Impedance 50 Ohms



Configuration:

- 2.92mm Male
- 2.92mm Female Bulkhead
- FM-SR086TBJ

Features:

- Max Frequency 40 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- 500 Mating Cycles

Applications:

- General Purpose
- Laboratory Use

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Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor Material and Plating	Tinned Copper Composite Braid
Jacket Material	FEP, Black
Jacket Diameter	0.105 in [2.67 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	0.787 in [19.99 mm]

Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female
Mount Method		Bulkhead
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material & Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Spec.	50 µin minimum	MIL-G-45204
Dielectric Type	PEI	PTFE
Outer Cond Material & Plating		Stainless Steel, Passivated
Body Material & Plating	Beryllium Copper, Gold over Nickel	Stainless Steel, Passivated
Body Plating Spec.	50 µin minimum	
Coupling Nut Material & Plating	Passivated Stainless Steel	
Coupling Nut Plating Spec.	ASTM-A582	
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

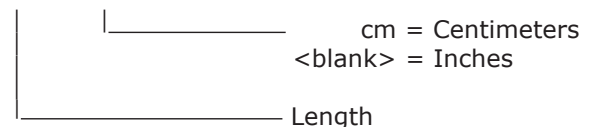
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA3262 - xx uu



Example: FMCA3262-12 = 12 inches long cable
 FMCA3262-100cm = 100 cm long cable

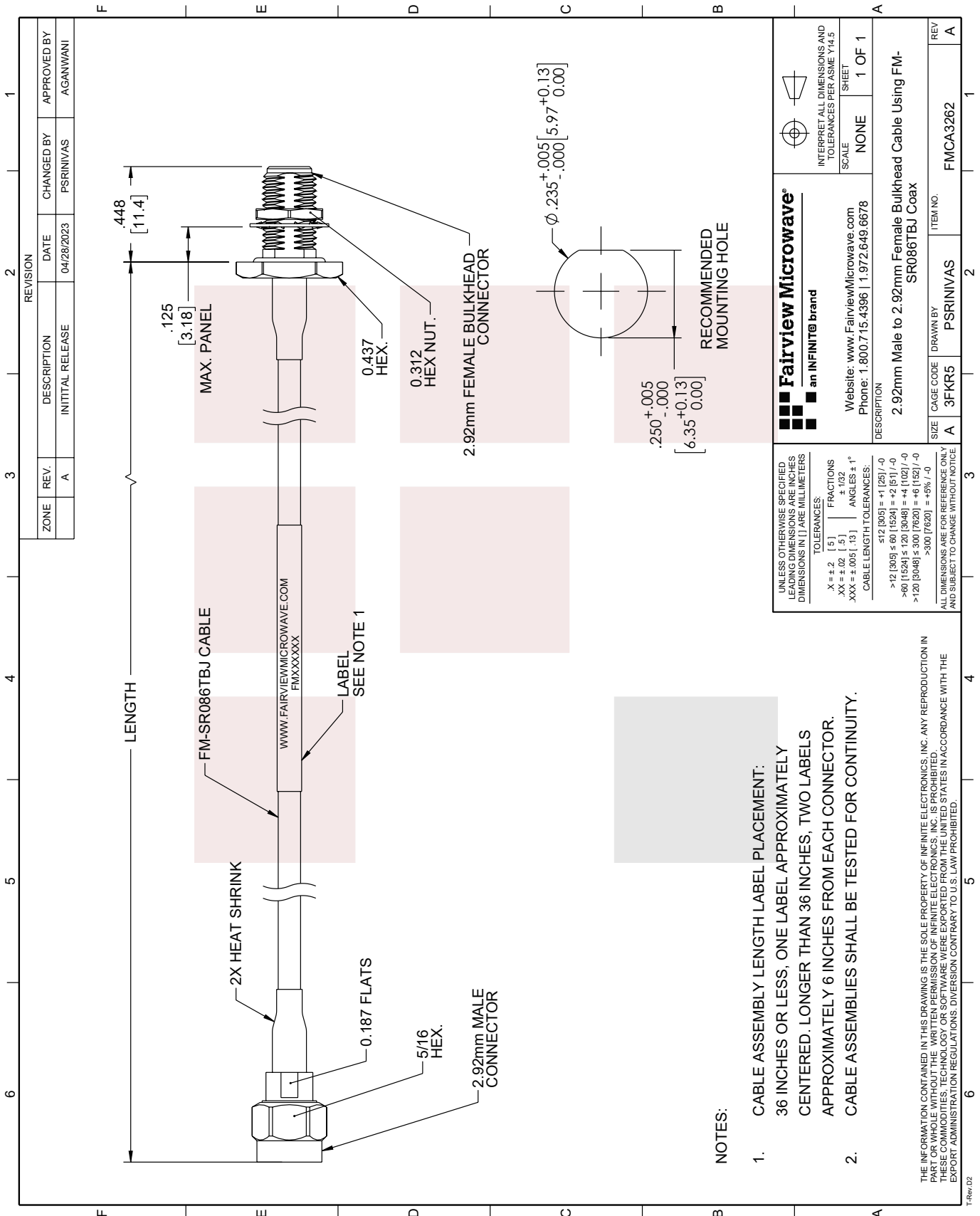
2.92mm Male to 2.92mm Female Bulkhead Cable FM-SR086TBJ Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [2.92mm Male to 2.92mm Female Bulkhead Cable FM-SR086TBJ Coax FMCA3262](#)

URL: <https://www.fairviewmicrowave.com/2.92mm-male-to-2.92mm-female-bulkhead-cable-fm-sr086t-bj-coax-fmca3262-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.





REVISION		DATE	CHANGED BY	APPROVED BY
ZONE	REV.	DESCRIPTION	INITIAL RELEASE	
	A		04/28/2023	PSRINIVAS
				AGANWANI

<p>Fairview Microwave an INFINIT[®] brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1</p>
<p>DESCRIPTION 2.92mm Male to 2.92mm Female Bulkhead Cable Using FM-SR086TBJ Coax</p>		
SIZE	CAGE CODE	ITEM NO.
A	3FKR5	PSRINIVAS
DRAWN BY		REV
PSRINIVAS		A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X ± .2 [5] FRACTIONS
 .XX ± .02 [.5] ± .032
 .XXX ± .005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 ≤12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

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NOTES:
 1. CABLE ASSEMBLY 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 ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.