

Mini SMP Female to RA Mini SMP Female Cable FM-SR086TBJ Coax in 24 Inch

FMC00554-24



Configuration

- Connector 1: Mini SMP Female
- Connector 2: Mini SMP Female Right Angle
- Cable Type: FM-SR086TBJ
- Coax Flex Type: Formable

Features

- Max Frequency 20 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

The Mini SMP female to RA Mini SMP female 24 inch cable using FM-SR086TBJ coax, part number FMC00554-24, from Fairview Microwave is in-stock and ships same day. This Fairview Mini SMP to Mini SMP cable assembly has a female 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 FMC00554-24 Mini SMP female to Mini SMP female cable assembly operates to 20 GHz. The right angle Mini SMP interface on the FM-SR086TBJ cable allows for easier connections in tight spaces.

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		20	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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	20	GHz

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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Insertion Loss (Typ.)	0.75	0.92	1.32	1.82	2.7	dB

Mechanical Specifications

Cable Assembly

Length	24 in [609.6 mm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.057 lbs [25.85 g]

Cable

Cable Type	FM-SR086TBJ
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor 1 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	Mini SMP Female	Mini SMP Female Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Conductor Plating Specification	MIL-G-45204	
Body Material and Plating		Beryllium Copper, Gold
Body Plating Specification		MIL-G-45204

Environmental Specifications

Operating Range Temperature	-55 to +125 deg C
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Compliance Certifications (see [product page](#) for current document)

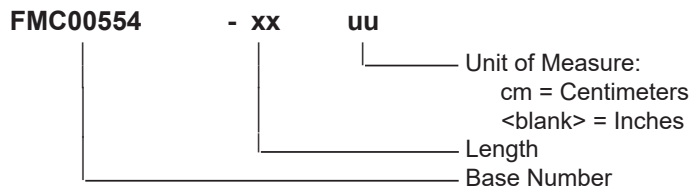
Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:



Example: FMC00554-12 = 12 inches long cable
FMC00554-100cm = 100 cm long cable

Mini SMP Female to RA Mini SMP Female Cable FM-SR086TBJ Coax in 24 Inch 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.

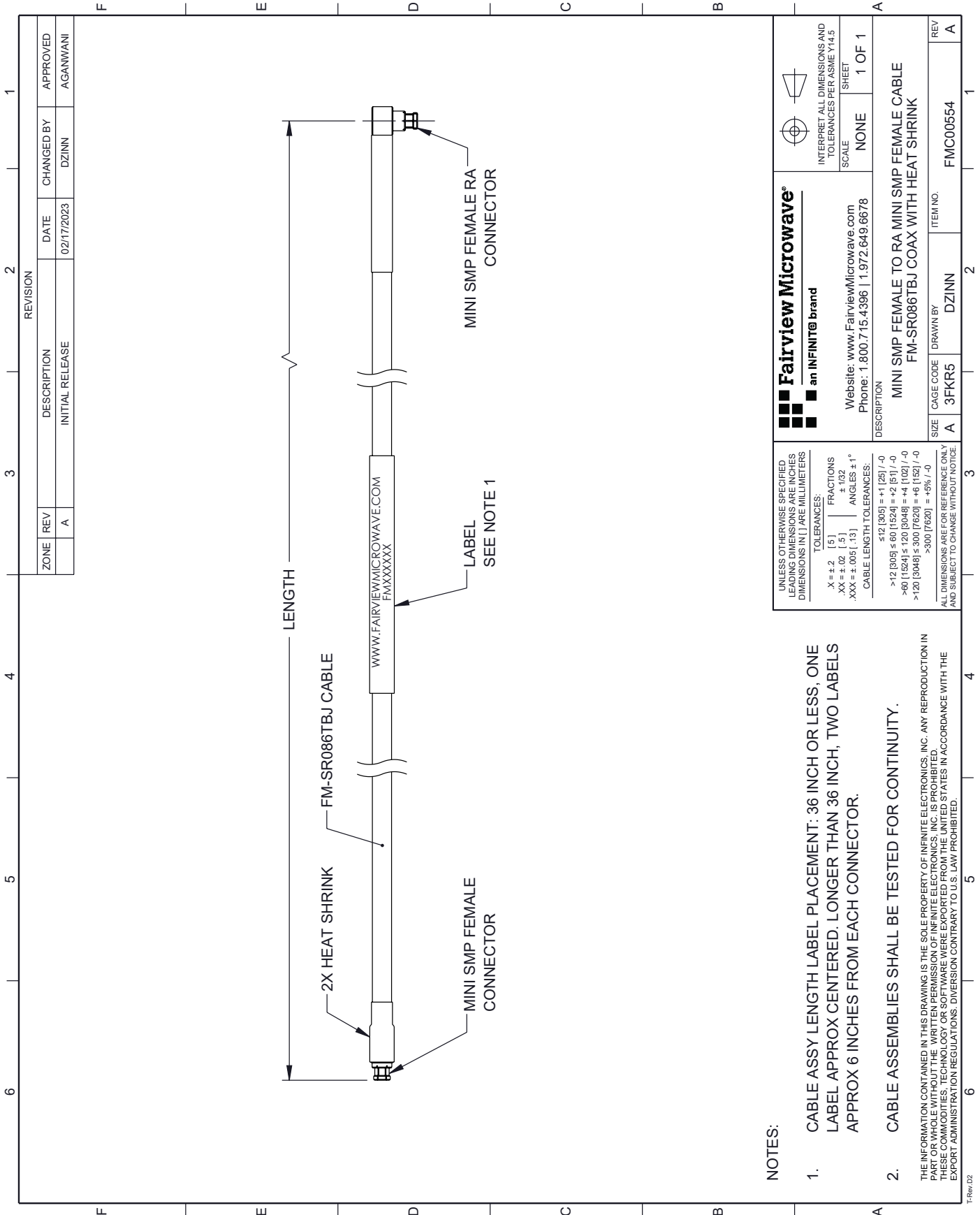
For additional information on this product, please click the following link: [Mini SMP Female to RA Mini SMP Female Cable FM-SR086TBJ Coax in 24 Inch FMC00554-24](#)

URL: <https://www.fairviewmicrowave.com/mini-smp-female-to-ra-mini-smp-female-cable-fm-sr086tbj-coax-in-24-inch-fmc00554-24-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.

FMC00554-24 CAD Drawing

Mini SMP Female to RA Mini SMP Female Cable FM-SR086TBJ Coax in 24 Inch



NOTES:

- CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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TRRev.02

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	02/17/2023	DZINN	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</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
	<p>DESCRIPTION: MINI SMP FEMALE TO RA MINI SMP FEMALE CABLE FM-SR086TBJ COAX WITH HEAT SHRINK</p> <p>SIZE: A</p> <p>CAGE CODE: 3FKR5</p> <p>DRAWN BY: DZINN</p> <p>ITEM NO: FMC00554</p>

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:

X ± .2 [.5] FRACTIONS
 .XX ± .02 [.5] ± 1/32
 .XXX ± .005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:

>12 [305] = +1 [25] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +8% / -0

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