

Slide-On BMA Plug Bulkhead to Slide-On BMA Jack 2 Hole Flange Cable FM-SR086TBJ Coax in 36 Inch

FMCA1563-36



Configuration

- Connector 1: Slide-On BMA Plug Bulkhead
- Connector 2: Slide-On BMA Jack 2 Hole Flange
- 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
- Rack and Panel
- BMA Cable RF Backplanes
- Phased Array Interconnects
- High Speed Switching Networks
- Blind Mate BMA Test

Description

The BMA plug slide-on bulkhead to BMA jack slide-on 2 hole flange 36 inch cable using FM-SR086TBJ coax, part number FMCA1563-36, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to BMA cable assembly has a plug to jack 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 FMCA1563-36 BMA plug to BMA jack cable assembly operates to 20 GHz. Our RF cable assembly with BMA bulkhead and BMA 2 hole flange 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		20	GHz
VSWR			1.5:1	
Return Loss			15.56	dB
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]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Operating Voltage (AC)			350	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	20	GHz
Insertion Loss (Typ.)	0.88	1.12	1.73	2.48	3.8	dB

Mechanical Specifications

Cable Assembly

Width/Diameter 0.75 in [19.05 mm]

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	BMA Plug Bulkhead	BMA Jack 2 Hole Flange
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Connection Method	Slide-On	Slide-On
Contact Material and Plating	Bronze, Gold	Beryllium Copper, Gold
Contact Plating Specification	51.18µ in. minimum	51.18µ in. minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	Beryllium Copper, Gold
Outer Conductor Plating Specification	78.74µ in. minimum	
Body Material and Plating	Brass, Tri-Metal	Stainless Steel, Gold
Body Plating Specification	78.74µ in. minimum	19.68µ in. minimum
Hex Size	8 mm	

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Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

Plotted and Other Data

Notes:

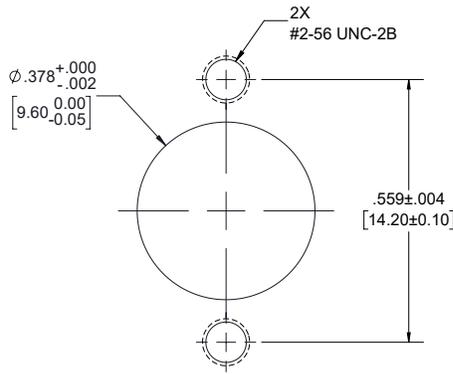
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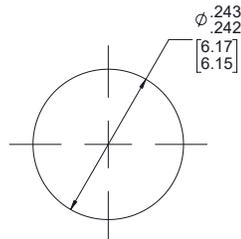
Typical Performance Data

2 HOLE FLANGE CUTOUT



MOUNTING HOLE

BMA PLUG BULKHEAD CUTOUT



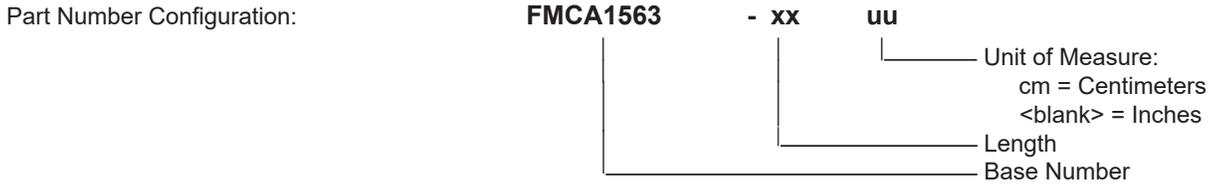
MOUNTING HOLE

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How to Order



Example: FMCA1563-12 = 12 inches long cable
FMCA1563-100cm = 100 cm long cable

Slide-On BMA Plug Bulkhead to Slide-On BMA Jack 2 Hole Flange Cable FM-SR086TBJ Coax in 36 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.

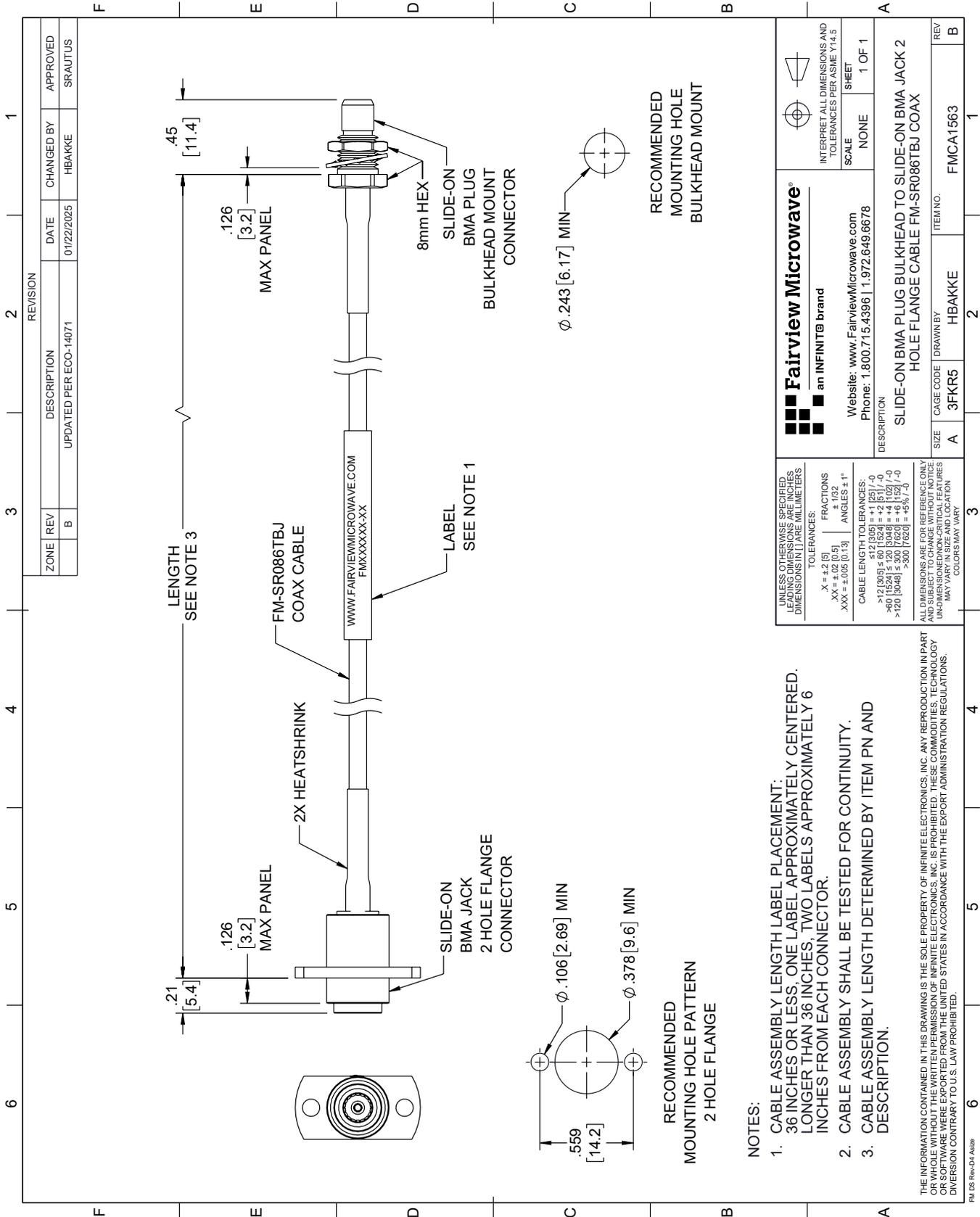
For additional information on this product, please click the following link: [Slide-On BMA Plug Bulkhead to Slide-On BMA Jack 2 Hole Flange Cable FM-SR086TBJ Coax in 36 Inch FMCA1563-36](#)

URL: <https://www.fairviewmicrowave.com/bma-plug-bma-jack-cable-rg405-type-.086-coax-fmca1563-36-p.aspx>

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FMCA1563-36 CAD Drawing

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 an INFINIT® brand		Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
TOLERANCES: .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]		SCALE: NONE SHEET: 1 OF 1
FRACTIONS: ± 1/32 ANGLES: ± 1°		
CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = ±1 [25] / -0 >60 [1524] ≤ 120 [3048] = ±4 [102] / -0 >120 [3048] ≤ 300 [7620] = ±5% / -0		
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND LOCATION MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		
DESCRIPTION: SLIDE-ON BMA PLUG BULKHEAD TO SLIDE-ON BMA JACK 2 HOLE FLANGE CABLE FM-SR086TBJ COAX	SIZE: A CAGE CODE: 3FKR5 DRAWN BY: HBAKKE	ITEM NO.: FMCA1563

- NOTES:
- 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.
 - CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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