

Slide-On BMA Plug Bulkhead to Slide-On BMA Jack Bulkhead Cable RG405 Type .086 Coax

The BMA plug slide-on bulkhead to BMA jack slide-on bulkhead cable using RG405 type .086 coax, part number FMCA1591, 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 semi-rigid FM-SR086CU 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 FMCA1591 BMA plug to BMA jack cable assembly operates to 18 GHz. Our RF cable assembly with BMA 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		18	GHz
VSWR			1.5:1	
Return Loss			15.56	dB
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.22	0.28	0.46	0.75	1.11	dB/ft
	0.72	0.92	1.51	2.46	3.64	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.37 in [9.4 mm]

Cable

Cable Type FM-SR086CU
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 Material and Plating Copper



Configuration:

- Slide-On BMA Plug Bulkhead
- Slide-On BMA Jack Bulkhead
- FM-SR086CU

Features:

- Max Frequency 18 GHz

Applications:

- General Purpose
- Laboratory Use
- Rack and Panel
- BMA Cable RF Backplanes
- Phased Array Interconnects
- High Speed Switching Networks
- Blind Mate BMA Test

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Repeated Minimum Bend Radius 0.05 in [1.27 mm]

Connectors

Description	Connector 1	Connector 2
Type	BMA Plug	BMA Jack
Mount Method	Bulkhead	Bulkhead
Impedance	50 Ohms	50 Ohms
Connection Method	Slide-On	Slide-On
Contact Material & Plating	Bronze, Gold	Beryllium Copper, Gold
Contact Plating Spec.	51.18μ in. minimum	
Dielectric Type	PTFE	
Outer Cond Material & Plating	Brass, Tri-Metal	Beryllium Copper, Gold
Outer Cond Plating Spec.	78.74μ in. minimum	
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	78.74μ in. minimum	
Hex Size	8 mm	

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

Environmental Specifications

Temperature

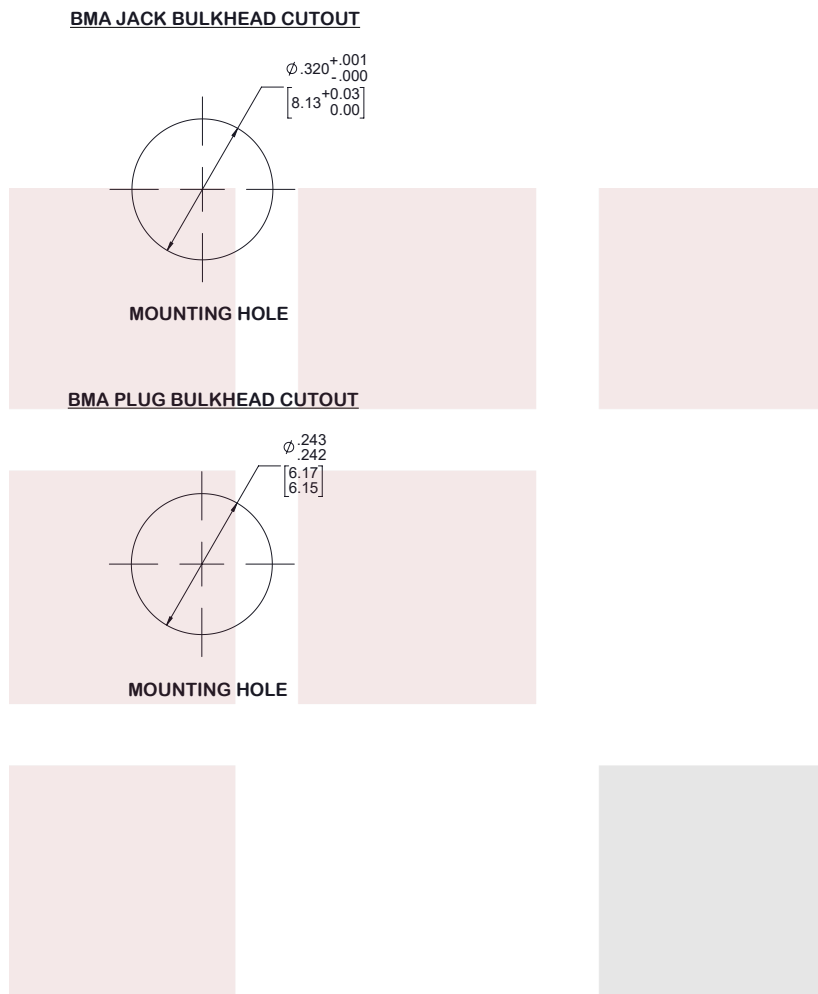
Operating Range -55 to +105 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data



How to Order

Part Number Configuration:

FMCA1591 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

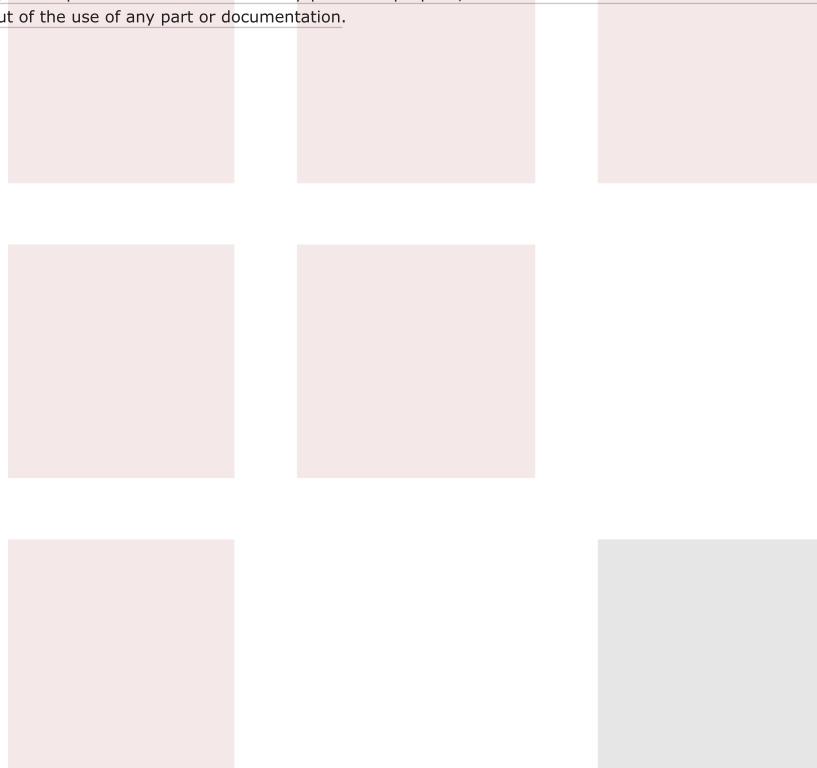
Example: FMCA1591-12 = 12 inches long cable
 FMCA1591-100cm = 100 cm long cable

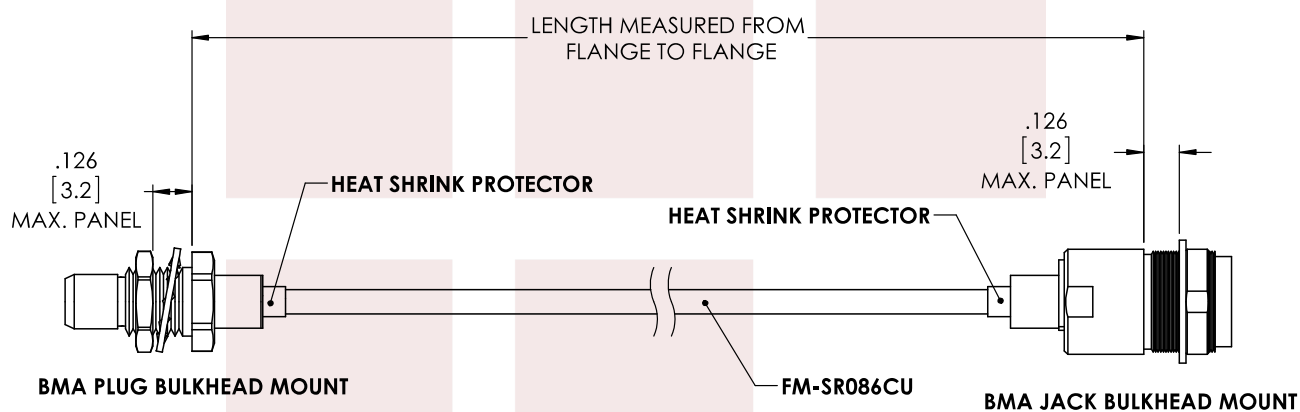
Slide-On BMA Plug Bulkhead to Slide-On BMA Jack Bulkhead Cable RG405 Type .086 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Slide-On BMA Plug Bulkhead to Slide-On BMA Jack Bulkhead Cable RG405 Type .086 Coax FMCA1591](#)

URL: <https://www.fairviewmicrowave.com/bma-plug-bma-jack-cable-rg405-type-.086-coax-fmca1591-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.





STANDARD TOLERANCES

.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

TITLE

Slide-On BMA Plug Bulkhead to Slide-On BMA Jack
Bulkhead Cable RG405 Type .086 Coax

DWG NO

FMCA1591

CAGE CODE

3FKR5

CAD FILE 12/18/17

SHEET

SCALE N/A

SIZE A

CN2245