

2.92mm Male to 1.85mm Female Bulkhead
Cable RG405 Type .086 Semi-Rigid Coax



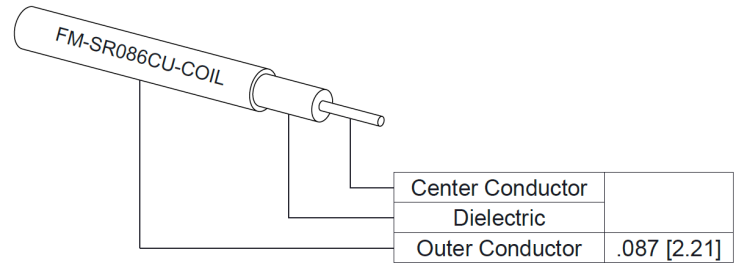
FMCA100197

Configuration

- Connector 1: 2.92mm Male
- Connector 2: 1.85mm Female Bulkhead
- Cable Type: FM-SR086CU-COIL
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 40 GHz



Applications

- General Purpose
- Laboratory Use

Description

The 2.92mm male to 1.85mm female bulkhead cable using RG405 type .086 coax, part number FMCA100197, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 1.85mm cable assembly has a male to female gender configuration with 50 ohm semi-rigid FM-SR086CU-COIL 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 FMCA100197 2.92mm male to 1.85mm female cable assembly operates to 40 GHz. Our RF cable assembly with 1.85mm 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		40	GHz
VSWR			1.4:1	
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	2500	5000	10000	20000	
FMCA100197	Custom Lengths Available	Insertion Loss (Typ.)	0.316	0.477	0.8	1.2	dB/ft	
			1.04	1.57	2.63	3.94	dB/m	
FMCA100197-6	6 Inch	Insertion Loss (Typ.)	0.36	0.44	0.6	0.8	dB	0.032
FMCA100197-12	12 Inch	Insertion Loss (Typ.)	0.52	0.68	1	1.4	dB	0.038
FMCA100197-18	18 Inch	Insertion Loss (Typ.)	0.68	0.92	1.4	2	dB	0.045
FMCA100197-24	24 Inch	Insertion Loss (Typ.)	0.84	1.16	1.8	2.6	dB	0.052
FMCA100197-36	36 Inch	Insertion Loss (Typ.)	1.15	1.64	2.6	3.8	dB	0.065

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:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.038 pounds
Additional Weight per Inch:	0.00109 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.038 lbs [17.24 g]

Cable

Cable Type	FM-SR086CU-COIL
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	Copper
Jacket Material	Tan
Repeated Minimum Bend Radius	0.05 in [1.27 mm]

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Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	1.85mm Female Bulkhead
Specification		IEEE-STD-P287
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PCTFE	PEI
Body Material and Plating	Beryllium Copper, Gold over Nickel	Passivated Stainless Steel
Body Plating Specification	50 µin minimum	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	

Environmental Specifications

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

Plotted and Other Data

Notes:

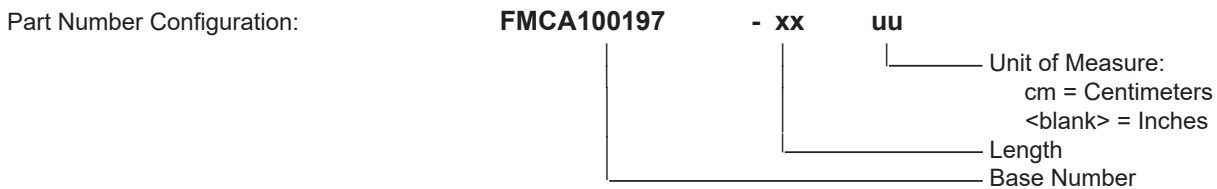
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FMCA100197

Typical Performance Data

How to Order



Example: FMCA100197-12 = 12 inches long cable
FMCA100197-100cm = 100 cm long cable

2.92mm Male to 1.85mm Female Bulkhead Cable RG405 Type .086 Semi-Rigid 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.

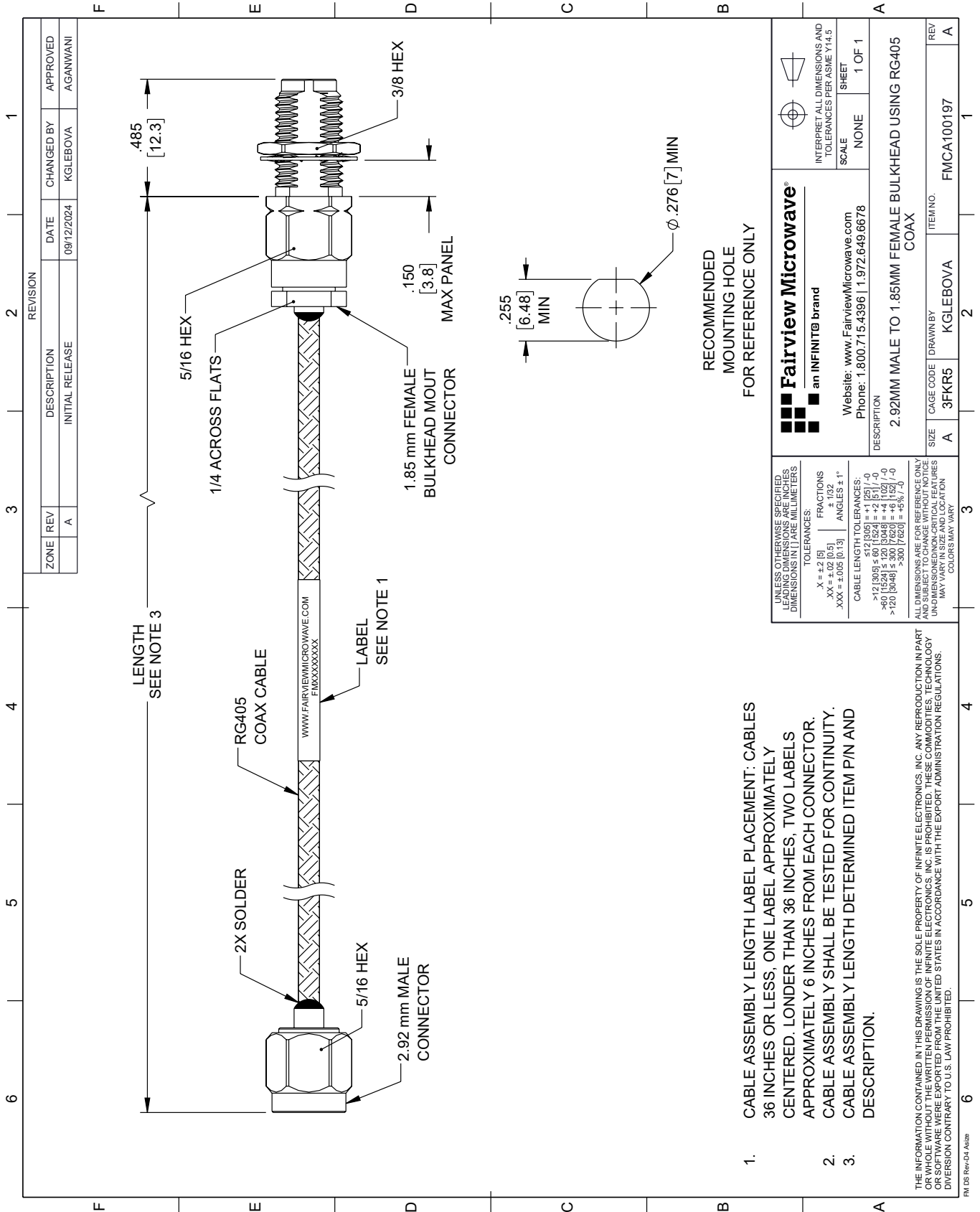
For additional information on this product, please click the following link: [2.92mm Male to 1.85mm Female Bulkhead Cable RG405 Type .086 Semi-Rigid Coax FMCA100197](#)

URL: <https://www.fairviewmicrowave.com/2.92mm-male-to-1.85mm-female-bulkhead-cable-rg405-type-.086-coax-fm-ca100197-p.aspx>

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FMCA100197 CAD Drawing

2.92mm Male to 1.85mm Female Bulkhead Cable RG405 Type .086 Semi-Rigid Coax

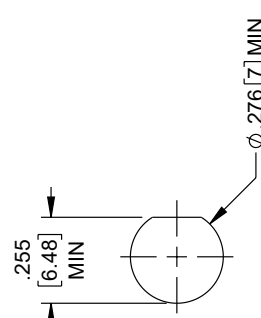


REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	09/12/2024	KGLEBOVA	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

LENGTH SEE NOTE 3

5/16 HEX
1/4 ACROSS FLATS
1.85mm FEMALE BULKHEAD MOUNT CONNECTOR
3/8 HEX
MAX PANEL

2X SOLDER
RG405 COAX CABLE
WWW.FAIRVIEWMICROWAVE.COM
FAVXXXXXXXXX
LABEL SEE NOTE 1
5/16 HEX
2.92mm MALE CONNECTOR



RECOMMENDED MOUNTING HOLE FOR REFERENCE ONLY

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: CABLES 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 ITEM P/N AND DESCRIPTION.

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

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] = ±.6 [15] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

Fairview Microwave
 an INFINITI® brand

Website: www.FairviewMicrowave.com
 Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
 SCALE NONE
 SHEET 1 OF 1

DESCRIPTION: 2.92MM MALE TO 1.85MM FEMALE BULKHEAD USING RG405 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	KGLEBOVA	FMCA100197

REV A

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FM DS Rev-D4 Alt2b