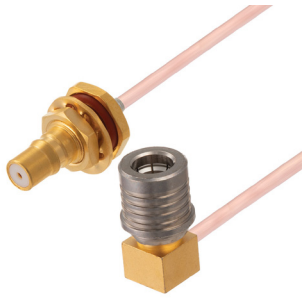
Fairview Microwave
an INFINITE brand

FMCA2930
DATA SHEET

RA QMA Male to QMA Female Bulkhead Cable RG405 Type .086 Coax



The RA QMA male to QMA female bulkhead cable using RG405 type .086 coax, part number FMCA2930, from Fairview Microwave is in-stock and ships same day. This Fairview QMA to QMA cable assembly has a male to female gender configuration with 50 ohm semi-rigid FM-SR086CU-STR 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 FMCA2930 QMA male to QMA female cable assembly operates to 6 GHz. The right angle QMA interface on the FM-SR086CU-STR cable allows for easier connections in tight spaces. Our RF cable assembly with QMA 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.

Configuration:

- QMA Male Right Angle
- QMA Female Bulkhead
- FM-SR086CU-STR

Features:

- Max Frequency 6 GHz
- Shielding Effectivity > -110 dB
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%
RF Shielding	-110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			750	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.5	6			GHz
Insertion Loss (Typ.)	0.22	0.317	0.542			dB/ft
	0.72	1.04	1.78			dB/m

Electrical Specification Notes:
Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Weight	0.038 lbs [17.24 g]

Cable

Cable Type	FM-SR086CU-STR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver

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Dielectric Type	PTFE
Number of Shields	1
Outer Conductor Material and Plating	Copper
Repeated Minimum Bend Radius	0.05 in [1.27 mm]

Connectors

Description	Connector 1	Connector 2
Type	QMA Male	QMA Female
Mount Method		Bulkhead
Impedance	50 Ohms	50 Ohms
Mating Cycles	100	
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating		Brass, Gold
Body Material & Plating	Brass, Gold	Brass, Gold
Coupling Nut Material & Plating	Brass, Nickel	

Mechanical Specification Notes:
Maximum length using the straight semi rigid coax is 5ft. For lenghts greater than 5ft, please contact us

Environmental Specifications

Temperature

Operating Range	-40 to +105 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FMCA2930 - xx uu**

- uu: cm = Centimeters; <blank> = Inches
- xx: Length

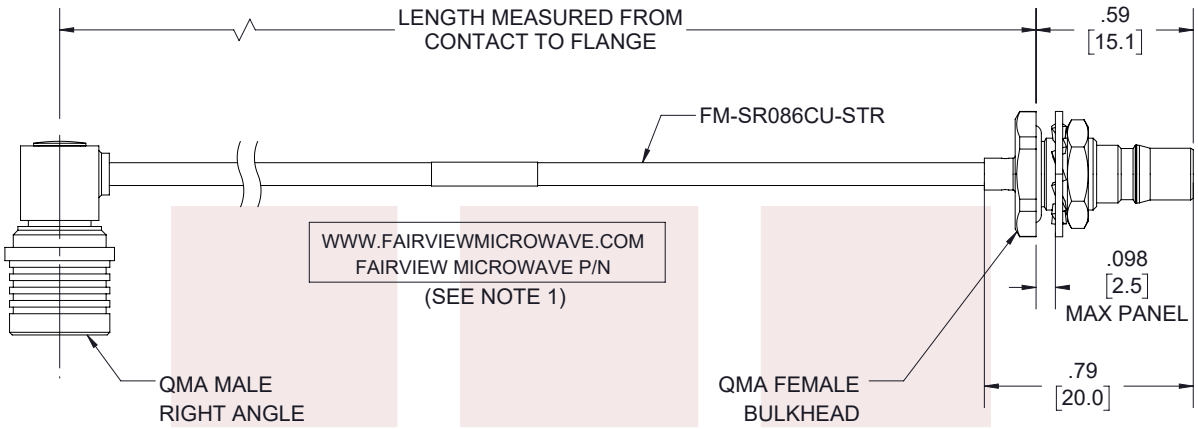
Example: FMCA2930-12 = 12 inches long cable
FMCA2930-100cm = 100 cm long cable

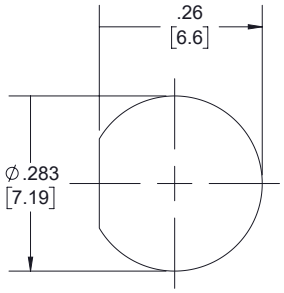
RA QMA Male to QMA Female Bulkhead Cable RG405 Type .086 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: RA QMA Male to QMA Female Bulkhead Cable RG405 Type .086 Coax FMCA2930

URL: https://www.fairviewmicrowave.com/ra-qma-male-to-qma-female-bulkhead-cable-rg405-type-.086-coax-fmca2930-p.aspx

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	07/29/2022	AGANWANI





MOUNTING HOLE

NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED.
   CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END
   6.0" FROM THE FRONT OF THE CONNECTOR.

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TITLE

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

TOLERANCES:

.X = ±.2 [5.08]
.XX = ±.02 [.51]
.XXX = ±.005 [.13]
FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SHEET	OF	SCALE
1	1	N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	PSRINIVAS	FMCA2930	A

T-Rev.D