

FAKRA Code Z / Water Blue Jack to SMA Male Cable RG-174 Coax



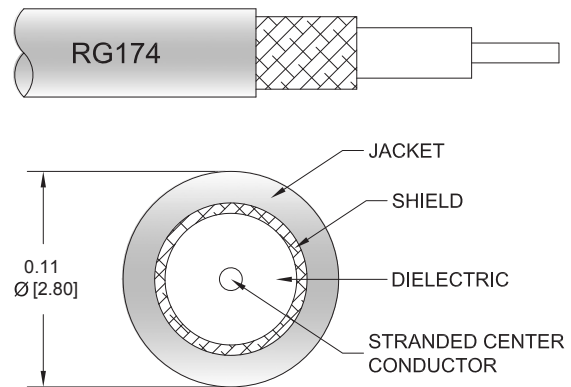
FMCA10060

Configuration

- Connector 1: FAKRA Jack
- Connector 2: SMA Male
- Cable Type: RG-174
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

The FAKRA Code / Water Blue jack to SMA male cable using RG174 coax, part number FMCA10060, from Fairview Microwave is in-stock and ships same day. This Fairview FAKRA to SMA cable assembly has a jack to male gender configuration with 50 ohm flexible RG-174 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA10060 FAKRA jack to SMA male cable assembly operates to 1 GHz.

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		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency				MHz	
FMCA10060	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.14	0.21	0.32	dB/ft	
			0.28	0.45	0.7	1.05	dB/m	
FMCA10060-12	12 Inch	Insertion Loss (Typ.)	0.44	0.49	0.57	0.67	dB	0.256
FMCA10060-24	24 Inch	Insertion Loss (Typ.)	0.52	0.63	0.78	0.99	dB	0.323
FMCA10060-36	36 Inch	Insertion Loss (Typ.)	0.61	0.77	0.99	1.31	dB	0.39
FMCA10060-48	48 Inch	Insertion Loss (Typ.)	0.69	0.9	1.2	1.63	dB	0.457
FMCA10060-72	72 Inch	Insertion Loss (Typ.)	0.86	1.18	1.62	2.27	dB	0.524

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:	0.25 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.256 pounds
Additional Weight per Inch:	0.07833 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.256 lbs [116.12 g]

Cable

Cable Type	RG-174
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]

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Connectors

Description	Connector 1	Connector 2
Type	FAKRA Jack	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Color	WB	
Contact Material and Plating	Phosphor Bronze, Gold	Brass, Gold
Contact Plating Specification		15 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	
Body Material and Plating	Plastic	Brass, Nickel
Body Plating Specification		200 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		200 µin minimum

Environmental Specifications

Operating Range Temperature -40 to +80 deg C

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

Plotted and Other Data

Notes:

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FMCA10060

Typical Performance Data

How to Order

Part Number Configuration:

FMCA10060

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: FMCA10060-12 = 12 inches long cable
FMCA10060-100cm = 100 cm long cable

FAKRA Code Z / Water Blue Jack to SMA Male Cable RG-174 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: [FAKRA Code Z / Water Blue Jack to SMA Male Cable RG-174 Coax FMCA10060](#)

URL: <https://www.fairviewmicrowave.com/fakra-jack-to-sma-male-cable-rg-174-coax-fmca10060-p.aspx>

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