

Water Blue FAKRA Jack to FAKRA Jack Right Angle Cable Using LMR-100 Coax

The FAKRA jack to RA FAKRA jack cable using LMR-100 coax, part number FMCA1346Z, from Fairview Microwave is in-stock and ships same day. This Fairview FAKRA to FAKRA cable assembly has a jack to jack gender configuration with 50 ohm flexible LMR-100A coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1346Z FAKRA jack to FAKRA jack cable assembly operates to 4 GHz. The right angle FAKRA interface on the LMR-100A cable allows for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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		4	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω /1000ft [Ω /Km]
Jacket Spark			2,000	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Max.)	0.2	0.2	0.3	0.4	0.6	dB/ft
	0.56	0.72	0.89	1.15	2	dB/m

Mechanical Specifications

Cable Assembly

Cable

Cable Type	LMR-100A
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape



Configuration:

- FAKRA Jack
- FAKRA Jack Right Angle
- LMR-100A

Features:

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

Applications:

- General Purpose
- Laboratory Use

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Shield Layer 2	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2
Type	FAKRA Jack	FAKRA Jack
Configuration	Straight	Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Brass, Nickel	Brass, Nickel
Body Material & Plating	Plastic	Plastic

Environmental Specifications

Temperature

Operating Range -40 to +80 deg C

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA1346Z - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA1346Z-12 = 12 inches long cable
 FMCA1346Z-100cm = 100 cm long cable

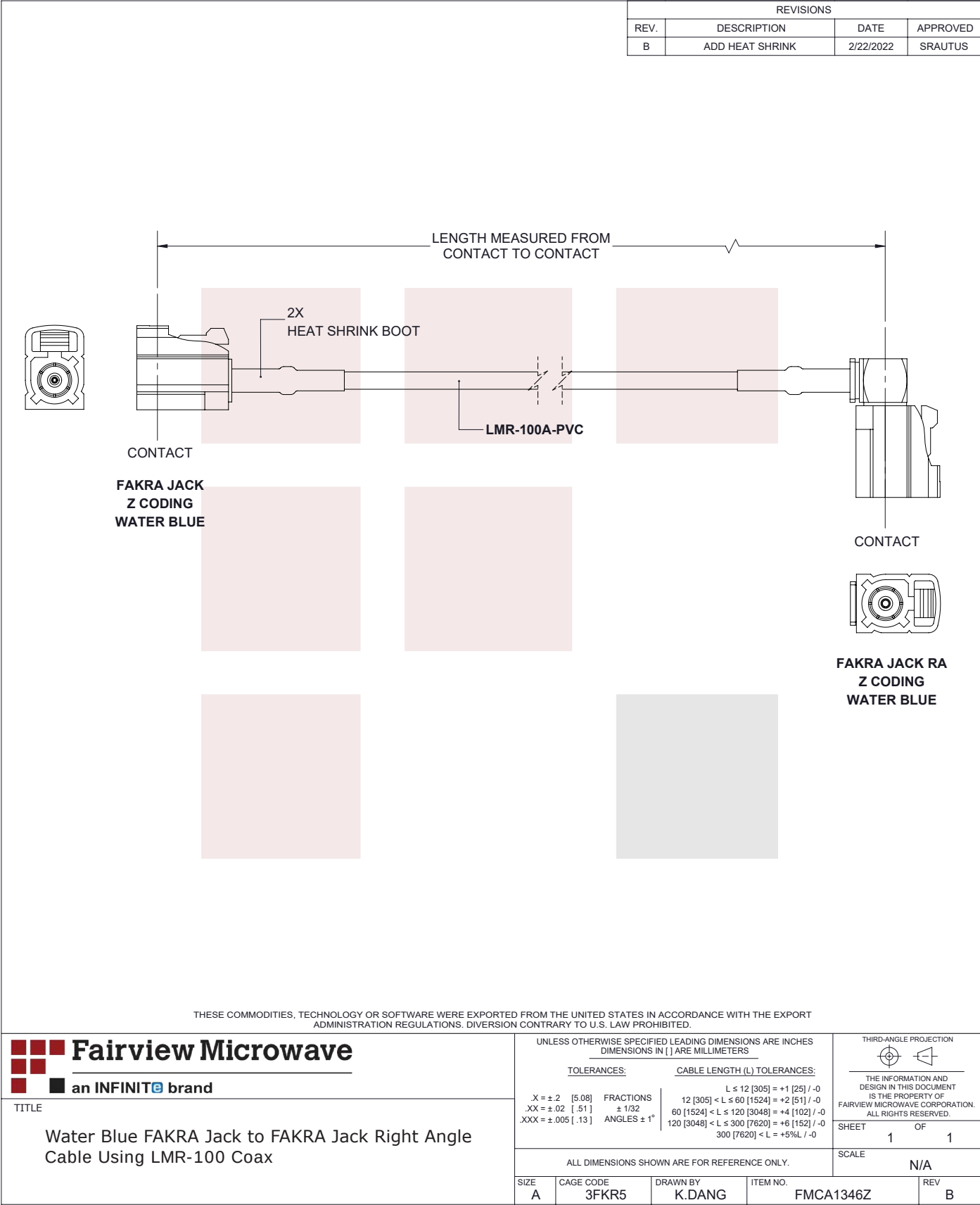
Water Blue FAKRA Jack to FAKRA Jack Right Angle Cable Using LMR-100 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Water Blue FAKRA Jack to FAKRA Jack Right Angle Cable Using LMR-100 Coax FMCA1346Z](#)

URL: <https://www.fairviewmicrowave.com/fakra-jack-ra-fakra-jack-cable-lmr100-coax-fmca1346z-p.aspx>

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