

## White FAKRA Jack to FAKRA Jack Right Angle Cable 48 Inch Length Using LMR-100 Coax

The FAKRA jack to RA FAKRA jack 48 inch cable using LMR-100 coax, part number FMCA1347-48, 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 FMCA1347-48 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]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		9.5 [31.17]		$\Omega$ /1000ft [ $\Omega$ /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.)	1.06	1.12	1.17	1.24	1.51	dB

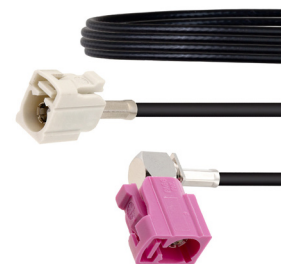
### Mechanical Specifications

#### Cable Assembly

Length*	48 in [121.92 cm]
Diameter	0.37 in [9.4 mm]

#### Cable

Cable Type	LMR-100A
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE



### 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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Number of Shields	2
Shield Layer 1	Aluminum Tape
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

### 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 -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:

**FMCA1347 - xx uu**

cm = Centimeters

<blank> = Inches

Length

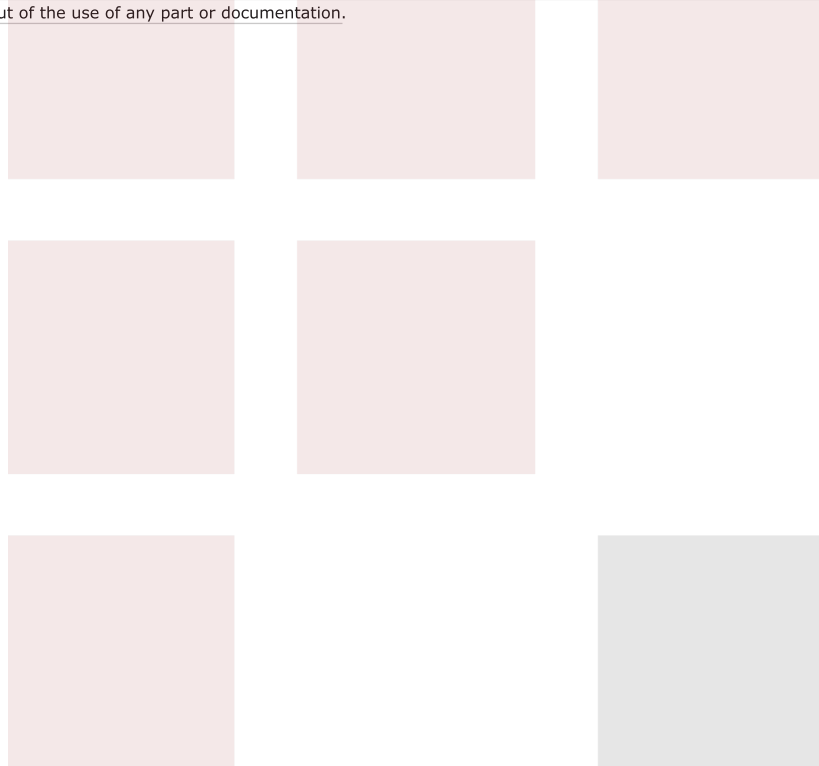
Example: FMCA1347-12 = 12 inches long cable  
 FMCA1347-100cm = 100 cm long cable

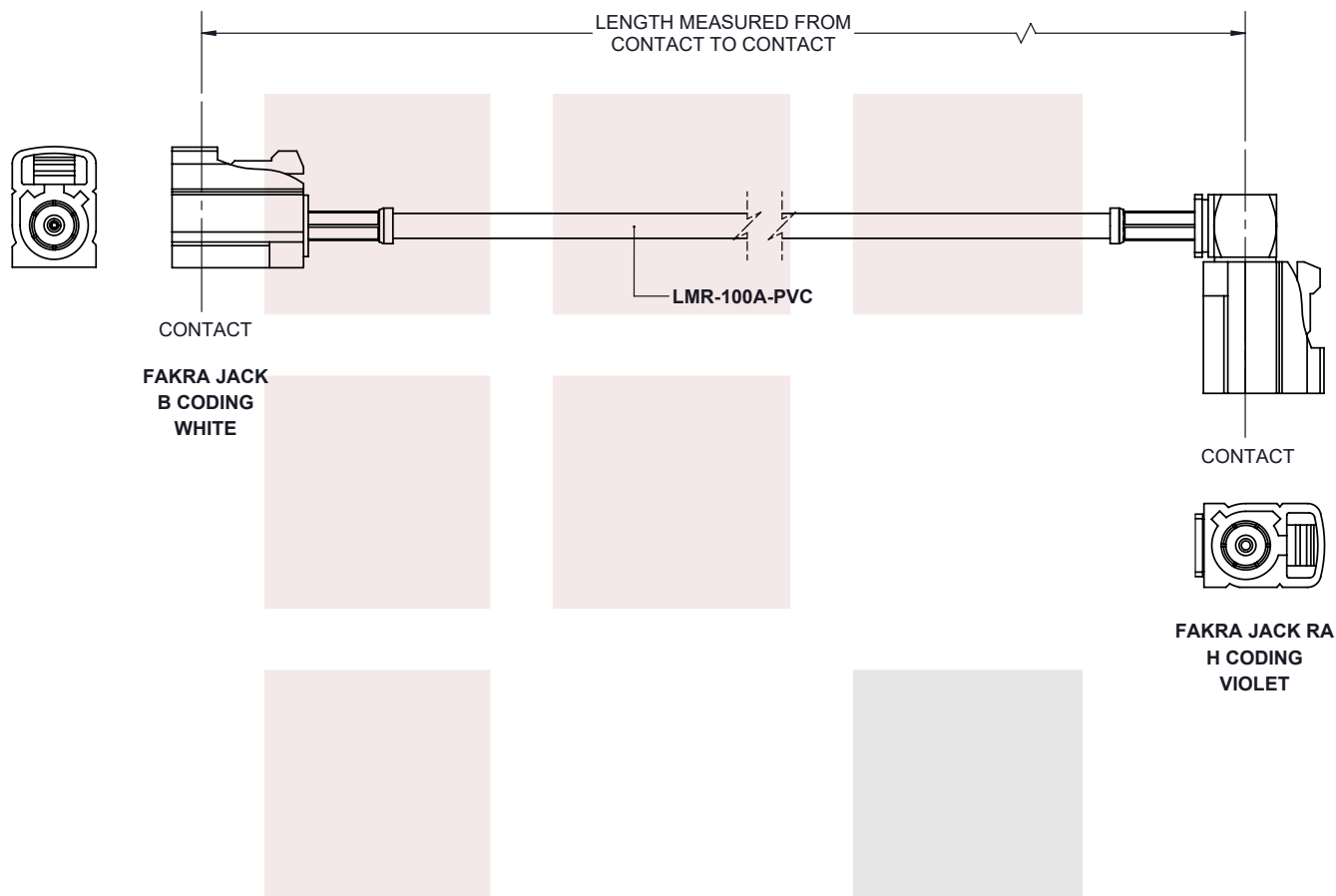
White FAKRA Jack to FAKRA Jack Right Angle Cable 48 Inch Length Using LMR-100 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [White FAKRA Jack to FAKRA Jack Right Angle Cable 48 Inch Length Using LMR-100 Coax FMCA1347-48](https://www.fairviewmicrowave.com/fakra-jack-ra-fakra-jack-cable-lmr100-coax-fmca1347-48-p.aspx)

URL: <https://www.fairviewmicrowave.com/fakra-jack-ra-fakra-jack-cable-lmr100-coax-fmca1347-48-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

<b>Fairview Microwave</b> an INFINITE brand		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 White FAKRA Jack to FAKRA Jack Right Angle Cable 48 Inch Length Using LMR-100 Coax		DWG NO FMCA1347		CAGE CODE 3FKR5		
CAD FILE	09/21/19	SHEET	1 OF 1	SCALE	N/A	SIZE A 7361