

## MCX Plug to FAKRA Code / Water Blue Jack Cable RG-316 Coax

The MCX plug to FAKRA Code / Water Blue jack cable using RG-316 coax, part number FMCA1357, from Fairview Microwave is in-stock and ships same day. This Fairview MCX to FAKRA cable assembly has a plug to jack gender configuration with 50 ohm flexible RG316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1357 MCX plug to FAKRA jack cable assembly operates to 3 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	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Operating Voltage (AC)			250	Vrms
Jacket Spark			2,000	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.11	0.16	0.23	0.38	0.58	dB/ft
	0.36	0.52	0.75	1.25	1.9	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

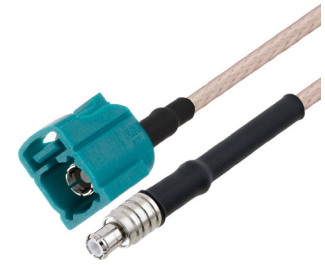
### Mechanical Specifications

#### Cable Assembly

Weight 0.026 lbs [11.79 g]

#### Cable

Cable Type RG316  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.102 in [2.59 mm]



### Configuration:

- MCX Plug
- FAKRA Jack
- RG316

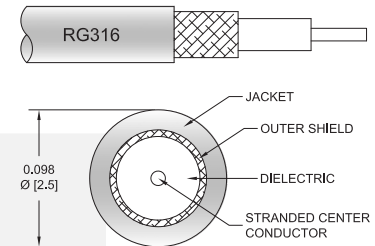
### Features:

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket

### Applications:

- General Purpose
- Laboratory Use

### Cable Diagram:



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**Connectors**

Description	Connector 1	Connector 2
Type	MCX Plug	FAKRA Jack
Configuration	Straight	Straight
Specification	CECC 22220	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Phosphor Bronze, Gold
Contact Plating Spec.	30 µin minimum	
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating		Brass, Nickel
Body Material & Plating	Brass, Nickel	Plastic
Body Plating Spec.	100 µin minimum	

**Environmental Specifications**
**Temperature**

Operating Range -40 to +85 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA1357 - xx uu**

 cm = Centimeters  
 <blank> = Inches

Length

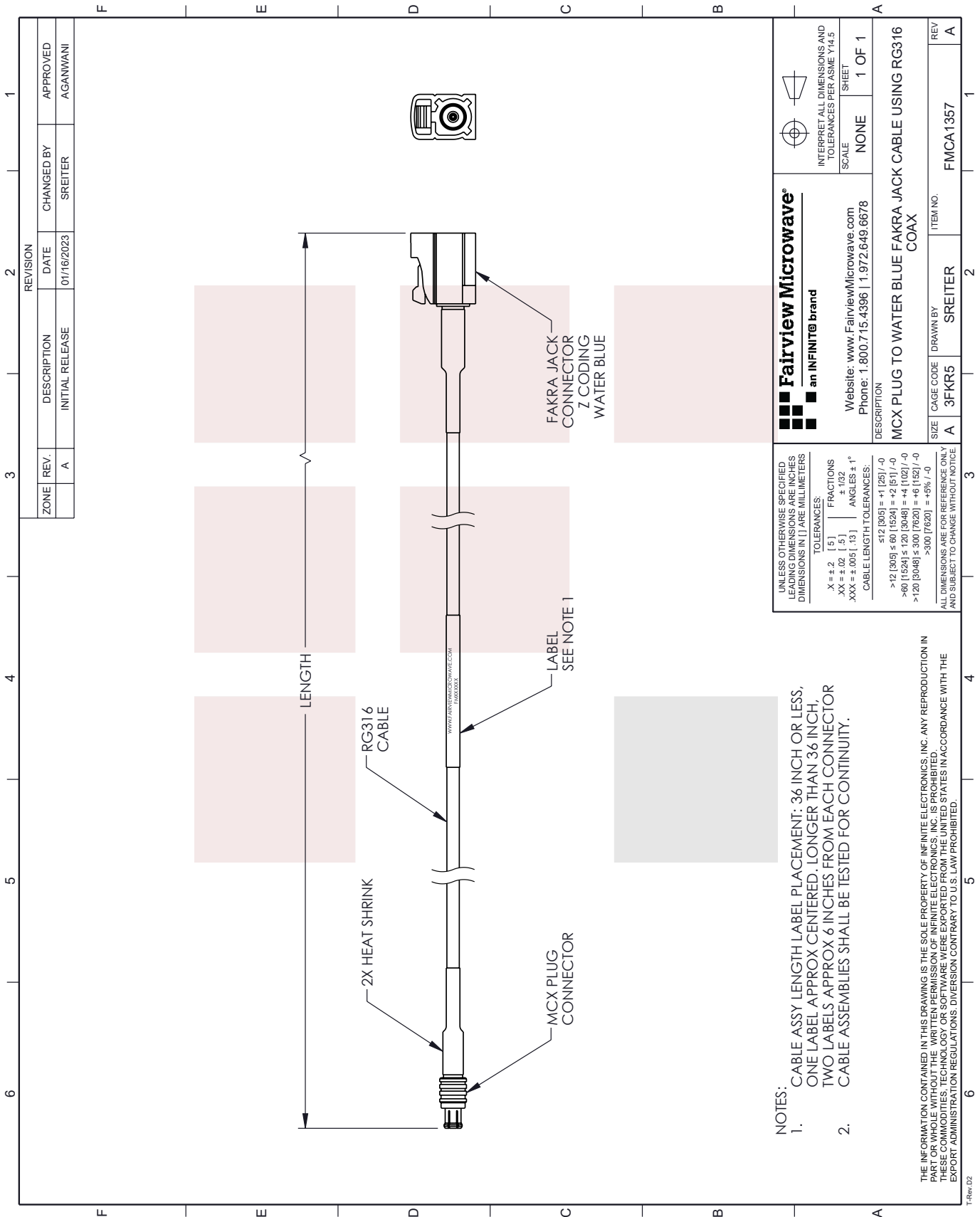
 Example: FMCA1357-12 = 12 inches long cable  
 FMCA1357-100cm = 100 cm long cable

MCX Plug to FAKRA Code / Water Blue Jack Cable RG-316 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: [MCX Plug to FAKRA Code / Water Blue Jack Cable RG-316 Coax FMCA1357](#)

URL: <https://www.fairviewmicrowave.com/mcx-plug-to-fakra-jack-cable-rg-316-coax-fmca1357-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.



- NOTES:
- CABLE ASSY LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROX CENTERED, LONGER THAN 36 INCH, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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

TOLERANCES:  
 .X = ±.2 [ .5 ] FRACTIONS  
 .XX = ±.02 [ .5 ] ±.132  
 .XXX = ±.005 [ .13 ] ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 ≤12 [305] = +1 [25] / -0  
 >12 [305] ≤ 60 [1524] = +2 [51] / -0  
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0  
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

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<b>Fairview Microwave<sup>®</sup></b> an INFINIT <sup>®</sup> brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET
Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678	SCALE: NONE	SHEET: 1 OF 1
DESCRIPTION: MCX PLUG TO WATER BLUE FAKRA JACK CABLE USING RG316 COAX		
SIZE: A	CAGE CODE: 3FKR5	ITEM NO.: FMCA1357
DRAWN BY: SREITER	REV: A	