

# Sealed FAKRA Connector System

**molex**

FAKRA RF Connectors offer a sealed, inline solution for automotive cameras, radio antennas, keyless entry or any application requiring an IP69K rating, along with a mechanical key feature and color coding to ensure a proper connection



Mated Sealed FAKRA Connector System

## Features and Benefits

### IP69K rating

Appropriate for exterior automotive devices or other applications requiring a robust seal against powerful water ingress

### Designed for automotive telematics applications

Meets USCAR 17 specifications

### Primary latch and ISL (with or without 7.00mm clip slot)

For enhanced reliability. Meets USCAR and FAKRA specifications

### Color Coded and keyed shrouds

Prevents mis-mating and helps guide proper connection

### Cable-mount jacks and plugs

Versatility for customer's design including in-line connections

### Numerous keying options and color codes

For design flexibility and ease-of-reference to specific applications



### Mates with original FAKRA PCB jacks and plugs

Backward compatibility to existing components minimizes additional costs (sealing requires both plug and jack from sealed family)

### Frequency DC to 6 GHz

Ideal for wireless and GPS applications

### Stamped-center contacts

Enables ease-of-assembly with Molex Hand Crimp Tool

## Applications

### Automotive

- Camera
- Wi-Fi
- GPS
- AM/FM radio
- Infotainment
- RFID tags

### Commercial Vehicle

- Construction equipment

### Home Appliance

### Smart Phones and Mobile Devices

- Radio antenna



Construction Equipment



Auto GPS and Infotainment

# Sealed FAKRA Connector System



## Specifications

### REFERENCE INFORMATION

Packaging: Bulk, Contact on Reel  
Mates With: FAKRA of Same Key/Color  
Designed In: Millimeters  
RoHS: Yes  
Halogen Free: Yes

### ELECTRICAL

Voltage (max.): 335V rms  
Frequency Rating: DC to 6 GHz  
Nominal Impedance: 50 Ohms  
Contact Resistance:  
Center Contact (max.): 20 milliohms  
Outer Contact (max.): 10 milliohms  
Dielectric Withstanding Voltage: 800V rms  
Insulation Resistance (min.): 5000 Megohms

### MECHANICAL

Retention Force of Latched Housing: > 110N  
Mating Force (max.): 25N  
Unmating Force (max.): 25N  
Durability (min.): 50 Cycles

### PHYSICAL

Housing: Nylon 66  
Body: Brass  
Contact: Phosphor Bronze  
Plating:  
Contact Area — Gold/Tin  
Body — Nickel  
Operating Temperature: -40 to +85°C

## Ordering Information

Series No.	Description	Key	Color
73403	FAKRA Sealed Cable Plug and Jack	A	Black
		B	Cream White
		C	Blue
		D	Bordeaux Violet
		E	Green
		F	Brown
		G	Gray
		H	Violet
		I	Beige
		K	Curry Yellow
		Z	Water Blue
		L	Carmin Red
		M	Pastel Orange
		N	Pastel Green

[www.molex.com/link/fakra.html](http://www.molex.com/link/fakra.html)

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