Sealed FAKRA Connector System

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.

Features and Benefits

**IP69K rating**
Appropriate for exterior automotive devices or other applications requiring a robust seal against powerful water ingress.

**Primary latch and ISL (with or without 7.00mm clip slot)**
For enhanced reliability. Meets USCAR and FAKRA specifications.

**Designed for automotive telematics applications**
Meets USCAR 17 specifications.

**Color Coded and keyed shrouds**
Prevents mis-mating and helps guide proper connection.

**Numerous keying options and color codes**
For design flexibility and ease-of-reference to specific applications.

**Frequency DC to 6 GHz**
Ideal for wireless and GPS applications.

**Stamped-center contacts**
Enables ease-of-assembly with Molex Hand Crimp Tool.

**Cable-mount jacks and plugs**
Versatility for customer’s design including in-line connections.

**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).

**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
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

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<th>Description</th>
<th>Key</th>
<th>Color</th>
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www.molex.com/link/fakra.html

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