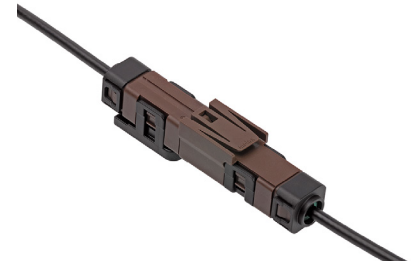


Sealed FAKRA Connector System

molex

Custom FAKRA RF Connectors offer a sealed, inline solution for automotive cameras, radio antenna, keyless entry or any application requiring an IP69K rating, along with 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
Glow Wire Compliant: Yes or No

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

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