



FAKRA II SMB connectors, with 360° rotation and secondary locking latch deliver easy cable routing between antennas and multi-media units while meeting the USCAR requirements for on-boards telematic systems

Molex’s FAKRA II SMB product offering meets both American USCAR and German FAKRA automotive standards. The FAKRA II connector system retains the high-performing, cost-effective RF attributes as the original FAKRA Connector.

The enhanced features offered by the FAKRA II connector system demonstrate Molex’s dedication to meet the continued mechanical and environmental requirements of the automotive industry.

For more information on Molex’s extensive FAKRA product offering, visit: www.molex.com/link/fakra.html

Features and Benefits

Connector rotates 360° inside the plastic shroud	Ease-of-routing inside an automobile. Less stress on the cable
Secondary plug locking latch	For enhanced reliability. Meets USCAR and FAKRA specifications
Numerous keying options and color codes	For design flexibility and ease-of-reference
Stamped and formed contacts	Lower selling price versus machined FAKRA connectors
Cable-mount jacks and plugs	Versatility for customer’s design
Mates with FAKRA I PCB jacks and plugs	Backward compatibility to existing components minimizes additional costs

Specifications

Reference Information

Packaging: Bulk, contact on reel
Mates With: FAKRA of same key/color (see table back)
Designed In: mm
RoHS: Yes
Halogen Free: Yes

Electrical

Frequency: DC to 6 GHz
Impedance: 50Ω
VSWR: 1.3 to 6 GHz max.
Contact Resistance: 5 milliohms max.
Dielectric Withstanding Voltage: 1000 Vrms
Insulation Resistance: 5000 Megohms min.

Mechanical

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

Physical

Housing: Nylon 66
Body: Brass
Contact: Phosphor Bronze
Plating:
Contact Area — Gold/Tin
Body — Nickel
Operating Temperature: -40 to +105°C

FAKRA II SMB Connector System

73403 FAKRA II SMB Cable Plugs and Jacks




FAKRA II Jacks



FAKRA II Plug

FAKRA II SMB Connectors Key Code / Color by Application

	A	B	C	D	E	F	G	H	I	J	K
Coding											
Color	Black	White	Blue	Bordeaux Violet	Green	Brown	Gray	Violet	Beige	Curry Yellow	Water Blue
RAL	RAL 9005	RAL 9003	RAL 5005	RAL 4004	RAL 6002	RAL 8011	RAL 7031	RAL 4003	RAL 1001	RAL 1027	RAL 5021
Device or application	DAB / Radio without phantom support	DAB / Radio with phantom support	GPS	GSM / Mobile phone	TV1	TV2	Remote control / Keyless entry	Radio controlled parking heating	Bluetooth	Radio with IF	Neutral coding

Applications

Telematic Applications

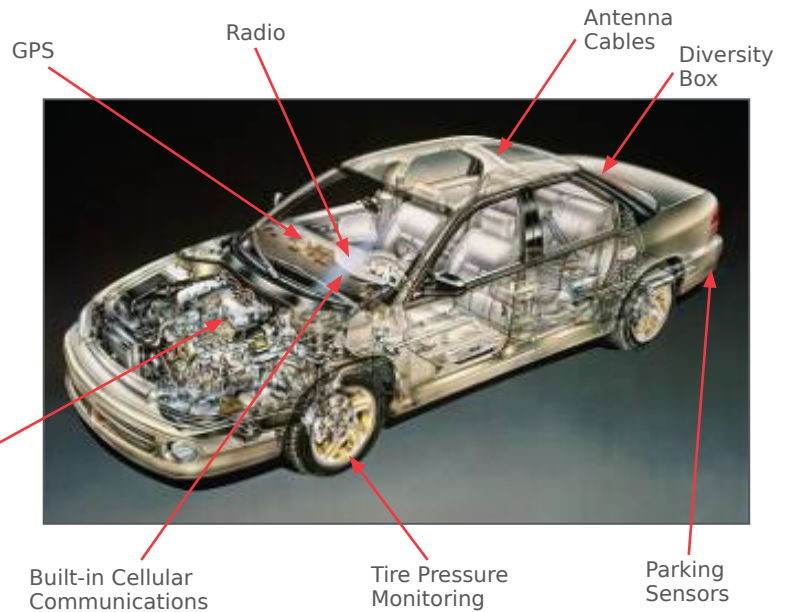
- GPS
- Radio
- Television
- Cell Phones
- WiFi
- Bluetooth
- Keyless Entry

Other Markets

- SDARS
- Smart Grid



Satellite Radio Antenna with FAKRA II Connectors



Ordering Information

Cable Plugs Order No.	Description	Cable Jack Order No.	Description	Keying Option	Color
73403-5740	FAKRA II Cable Plug with RG174/316 Cable	73403-5760	FAKRA II Cable Jack with RG174/316 Cable	A	Black
73403-5741		73403-5761		B	White
73403-5742		73403-5762		C	Blue
73403-5743		73403-5763		D	Bordeaux Violet
73403-5744		73403-5764		E	Green
73403-5745		73403-5765		F	Brown
73403-5746		73403-5766		G	Gray
73403-5747		73403-5767		H	Violet
73403-5748		73403-5768		I	Beige
73403-5749		73403-5769		J	Curry Yellow
73403-5750		73403-5770		K	Water Blue
73403-5751		73403-5771		L	Carmine Red
73403-5752		73403-5772		M	Pastel Orange
73403-5753		73403-5773		N	Pastel Green