



**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-board telematics systems'**

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

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.

**FAKRA II SMB Connector System**

**73403** FAKRA II SMB Cable Plugs and Jacks



FAKRA II SMB Jacks



FAKRA II SMB Plug

**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 to specific applications
Machined contact versions available	Use industry-standard indent-crimp terminal tools (Daniels AFM8) providing ease-of-use without additional tooling investment. Ideal for low-volume applications
Stamped-center contact versions available	Use special crimp dies and are ideal for bench-top or pneumatic crimping machines. Provide the most cost-effective FAKRA connector. Ideal for high-volume applications
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

**Specifications**

**Reference Information**

Packaging: Bulk, contact on reel  
Mates With: FAKRA of same key/color (see table on page 2)  
Designed In: mm  
RoHS: Yes  
Halogen Free: Yes

**Electrical**

Frequency: DC to 6 GHz  
Impedance: 50 Ohms

VSWR: 1.3 to 6 GHz max.  
Contact Resistance: 5 milliohms max.  
Dielectric Withstanding Voltage: 1000V RMS  
Insulation Resistance: 5000 Megohms min.

**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 +105°C

Coding	A	B	C	D	E	F	G	H	I	K	Z
											
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

### Ordering Information

Order No. Cable Plugs	Order No. Cable Jacks	Contact Style	Cable	Keying Option	Color		
73403-6260	73403-6280	Machined (low-volume applications)	RG174/316	A	Black		
73403-6261	73403-6281			B	Cream White		
73403-6262	73403-6282			C	Blue		
73403-6263	73403-6283			D	Bordeaux Violet		
73403-6264	73403-6284			E	Green		
73403-6265	73403-6285			F	Brown		
73403-6266	73403-6286			G	Gray		
73403-6267	73403-6287			H	Violet		
73403-6268	73403-6288			I	Beige		
73403-6269	73403-6289			K	Curry Yellow		
73403-6270	73403-6290			Z	Water Blue		
73403-6271	73403-6291			L	Carmine Red		
73403-6272	73403-6292			M	Pastel Orange		
73403-6273	73403-6293			N	Pastel Green		
73403-5740	73403-5760			Stamped (high-volume applications)	RG174/316	A	Black
73403-5741	73403-5761					B	Cream 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	K	Curry Yellow				
73403-5750	73403-5770	Z	Water Blue				
73403-5751	73403-5771	L	Carmine Red				
73403-5752	73403-5772	M	Pastel Orange				
73403-5753	73403-5773	N	Pastel Green				

## Applications

## FAKRA II SMB Connector System

### Telematic Applications

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

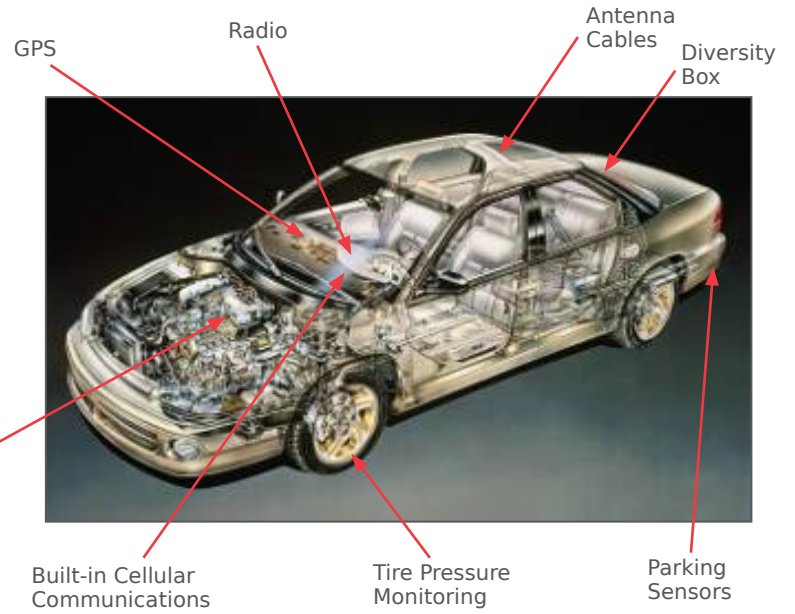
### Other Markets

- SDARS
- Smart Grid



Satellite Radio Antenna with FAKRA II Connectors

Telematics



Built-in Cellular Communications

Tire Pressure Monitoring

Parking Sensors