

Overview

Amphenol RF's series of IP-67 rated sealed FAKRA SMB connectors are available in straight, right angle, and low profile configurations. These connectors are tested to automotive industry standards and utilize both internal and external o-rings and adhesive heat shrink tubing in order to prevent dust and water ingress. Sealed FAKRA are ideal for applications exposed to harsh environmental elements.

These connectors utilize a modified SMB connector embedded within a plastic housing, which is designed with a mechanical key feature and multiple color codes for easy identification and a proper connection.

These FAKRA connectors meet the specific mechanical and environmental requirements of the automotive industry (USCAR-17) and accommodate RG-58, RG-174, RG-188, RG-316 and DACAR 462 cables.

Features and Benefits

- IP-67 rated to prevent dust and water ingress
- Color coded and mechanically keyed housings to prevent mis-mating
- Rugged, impact resistant body and housing

Applications

- 360 Degree Surround View Cameras
- Advanced Driver Assistance Systems (ADAS)
- GPS
- Wi-Fi
- Wireless Remote
- RFID
- Asset Tracking
- Antennas
- Telematics



Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

For more information visit www.amphenolrf.com
or call 800.627.7100

Sealed FAKRA Product Series

IP-67 Rated Automotive Interconnect Solution



Ordering Information

Sealed FAKRA Plug for RG-174/188/316 and DACAR 462 Cable

Part Number	Description	Mounting Clip Provision
2FA1-NXSP-C01E1	Single Straight	Without
2FA1-NXSP-C01E6	Single Straight	With

Sealed FAKRA Jack for RG-174/188/316 and DACAR 462 Cable

Part Number	Description	Mounting Clip Provision
3FA1-NXSJ-C01E0	Single Straight	Without
3FA1-NXSJ-C01E6	Single Straight	With
3FA1ENXSJ-C01ES	Single Straight Low Profile	Without
3FA1ENXRJ-C01ER	Single Right Angle	Without

Sealed FAKRA Plug for RG-58

Part Number	Description	Mounting Clip Provision
2FA1-NXSP-C04E1	Single Straight	Without

Sealed FAKRA Jack for RG-58

Part Number	Description	Mounting Clip Provision
3FA1ENXSJ-C04E0	Single Straight	Without
3FA1ENXSJ-C04ES	Single Straight Low Profile	Without
3FA1ENXRJ-C04E3	Single Right Angle	Without

FAKRA/USCAR MECHANICAL CODING

	Jack	Plug	RAL	Color
A			9005	Jet Black
B			9001	Cream
C			5005	Signal Blue
D			4004	Claret Violet
E			6002	Leaf Green
F			8011	Nut Brown
G			7031	Blue Grey
H			4003	Heather Violet
I			1001	Beige
K			1027	Curry
L			3003	Carmine
M			2003	Pastel Orange
N			6019	Pastel Green
Z			5021	Water Blue

Amphenol® RF

Technical Specifications

Electrical

Impedance	50 Ω Nominal
Frequency Range	DC - 3 GHz
VSWR	DC - 2 GHz: 1.4 Max
	2 - 3 GHz: 0.5 Max
Dielectric Withstanding Voltage	800 VRMS Min

Mechanical and Environmental

Durability	100 Cycles Min
Temperature range	-40°C to +85°C
RoHS	Compliant
Ingress Protection Rating	Sealed to IP67 in the mated position

Materials

Body	Zinc Diecast
Insulator	PTFE
Housing	PPE + PS (Color per table)
Ferrule	Copper, Nickel plated, Silicone Rubber
O-Ring	Hydrogenated Nitrile
Shrink Tubing	Polyolefin, Adhesive lined

*Technical specifications are typical and may vary by specific part number or design. See component drawing for additional details.

Consult factory for OEM specification compliance.

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