

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



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.

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

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