

Overview

Amphenol RF offers a fixed length FAKRA to AMC4 cable assembly product series. This assembly combines the automotive industry standard FAKRA connector with the ultraminiature AMC4 connector on the flexible 1.13 mm micro coax cable. This combination allows for easy connect and disconnect and is ideal for automotive and IoT applications where space constraints exist.

The FAKRA connector is color coded and mechanically keyed to prevent mis-mating during the installation process. The AMC4 connector features an ultra-low profile (0.6 mm height off the board with a mated height of 1.4 mm) and an extremely small board footprint (2 mm x 2 mm). These connectors can be terminated with any other AMC4 or similarly keyed FAKRA, respectively. Standard FAKRA to AMC4 cable assemblies are available in the universal Z code which has the versatility to mate with all other key codes.

Automotive applications include interior driver facing cameras which increase vehicle safety, dedicated short range communication (DSRC) such as V2X and V2V technology and advanced driver assistance systems (ADAS). In the IoT ecosystem, this cable assembly offers a space saving solution within compact infrastructure which makes it ideal for back panels, smart boxes or modules and remote control access, in addition to high volume cable harnesses and large multi-connector panels.

Features and Benefits

- Ideal for space conscious designs
- Designed for automotive and IoT applications
- Universally keyed and color coded housing

Applications

- Interior driving facing cameras
- Dedicated Short Range Communication (DSRC)
- Advanced Driver Assistance Systems (ADAS)
- Smart Boxes or Modules
- Remote Control Access
- Wireless Module Antenna Connections

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

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



Ordering Information

FAKRA Straight Plug to AMC4 Right Angle Plug on 1.13 mm Micro Cable

Part Number	Cable Length
095-820-124-05Z	50 mm
095-820-124-10Z	100 mm
095-820-124-15Z	150 mm
095-820-124-20Z	200 mm
095-820-124-25Z	250 mm
095-820-124-30Z	300 mm

Amphenol® RF

Technical Specifications (Connectors)

Electrical		FAKRA	AMC4
Impedance		50 Ω	
Frequency Range		DC - 6 GHz*	
Voltage Rating		335 Volts RMS Continuous	60 Volts RMS Continuous
VSWR*	DC - 2 GHz	1.4 Max.	1.3 Max.
	2 - 3 GHz	1.5 Max.	1.3 Max.
	3 - 6 GHz	-	1.45 Max.
Dielectric Withstanding Voltage		200 VRMS	

Mechanical		FAKRA	AMC4
Mating Cycles		100 Min.	30 Min.

Environmental		FAKRA	AMC4
Temperature Range**		-40°C to +105°C	-40°C to +85°C
RoHS		Compliant with Exemption 6C	

Materials		FAKRA	AMC4
Body		Zinc Alloy, Nickel Plating	Copper Alloy, Gold Plating
Contact		Brass, Gold Plating	Copper Alloy, Gold Plating
Insulator		PTFE, Natural	High Temperature Engineering Plastic

Note: Technical specifications are typical and may vary by specific part number. See component drawing.

*VSWR: 1.75 Max @ 3 GHz for cable assembly

**Temperature Range: -40°C to +85°C for cable assembly

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