

Overview

The AUTOMATE® Mini-FAKRA connector series, the latest in automotive interconnect technology, is a space-conscious, high-performance interface central to the next generation of vehicle applications. Supporting up to 20 Gbps data transmission, AUTOMATE connectors reduce installation space requirements by up to 80% compared to previous FAKRA products. Color coded housings provide visual guidance during the assembly process and mechanical keying options prevent mis-mating of connectors.

This compact solution is available in a quad-port configurations in a variety of standard key codes. These connectors are intermateable with all industry standard options.

Features and Benefits

- Compact, modular housing
- Multiport configuration
- Saves installation space by up to 80%
- Low engagement and disengagement forces
- Impact resistance

Applications

- 360-degree surround view cameras
- ECUs and Compute modules
- Autonomous vehicles
- Advanced Driver Assistance Systems (ADAS)
- GPS navigation
- 3D instrument cluster
- High bandwidth infotainment
- Remote start and vehicle controls
- V2X communication

Amphenol RF

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

Ordering Information



AUTOMATE Type B Mini-FAKRA PCB Connectors

Part Number	Description
FMB4NxRP-PCB-1	AUTOMATE Type B Mini-FAKRA Quad-Port PCB Right-Angle Plug

*Note: See Key Code Chart on reverse side for all available codes.
Contact factory for mating assembly information.*

AUTOMATE Type B Mini-FAKRA Cable Mount Connectors

Part Number	Description
FMB4NxSJ-C01W0	AUTOMATE Type B Mini-FAKRA Quad-Port PCB Straight Plug RG-174, RG-188, RG-316

Custom Solutions

AUTOMATE Cable Assemblies – Application specific solutions designed per customer requirements

AUTOMATE Sealed Solutions – Increased protection for harsh environment applications

Contact Amphenol RF sales for additional information

AUTOMATE® Type B is intermateable with TE's MATE-AX® series.

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Technical Specifications

Electrical

Impedance	50Ω Nominal
Frequency Range	DC – 15 GHz (20 Gb/s Data Throughput)
Return Loss	≥20 dB, DC – 6 GHz ≥15 dB, 6 – 9 GHz
Test Voltage	750 VRMS
Working Voltage	60 VDC
Current Rating	≤3A DC
Center Contact Resistance	<15mΩ
Outer Contact Resistance	<7.5mΩ

Mechanical

Mating Cycles	25 Cycles Min
Engagement Force	≤50N
Disengagement Force	≤5N

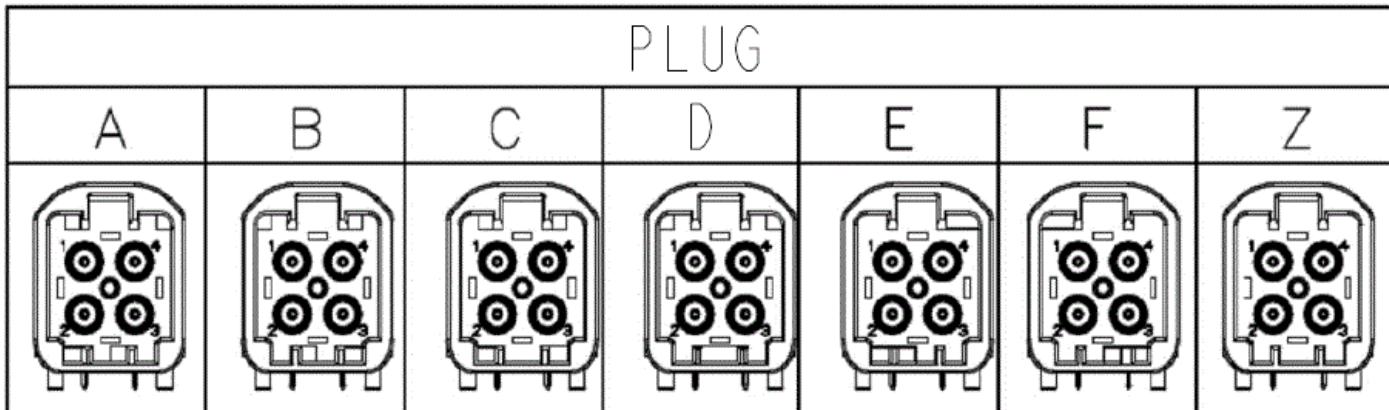
Environmental

Temperature Range	-40°C to +105°C
RoHS	Compliant with exemption 6C

Materials

	PCB	Cable
Body	Zinc Alloy, Matte Tin Finish	N/A
Outer Contact	Brass, Matte Tin Finish	Phosphor Bronze, Matte Tin Finish
Center Contact	Brass, Gold Finish	Spring Copper Alloy, Gold Finish
Housing	Nylon	PBT
Insulator	LCP	PTFE

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



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