Amphenol® RF

Overview

Amphenol RF offers a number of 50 ohm panel mount SMA bulkhead jacks fully tested to IP67 specifications in the mated and unmated condition. These connectors are designed on a variety of industry-standard flexible and semi-rigid cable types and available in the straight crimp configuration. They feature a threaded coupling mechanism for secure mating.

The front mount bulkhead SMA jack can be fastened inside of a panel or enclosure to provide additional security for sensitive systems and feature a threaded coupling mechanism for secure mating. This is aided by a tamper resistant design and the flexibility of the micro-coax cables.

Features and Benefits

- Waterproof IP67 rated
- Reliable electrical performance up to 6 GHz
- Threaded coupling mechanism for secure mating
- Vibration and tamper resistant design
- Ideal for applications with space constraints

Applications

- Antennas
- Base Stations
- Drones
- Test and Measurement Equipment
- Industrial Automation and Inspection
- Bluetooth and Cellular technology
- WLAN

Ordering Information

IP67 SMA Front Mount Bulkhead Jacks

Part Number	Description	Max Panel Thickness
132397	Straight Crimp Front Mount Jack Bulkhead, 1.13 mm	6.350" [10.25 mm]
901-10796	Straight Crimp Front Mount Jack Bulkhead, 0.81 mm	0.118" [3.0 mm]
901-10797	Straight Crimp Front Mount Jack Bulkhead, 1.32 mm	0.118" [3.00 mm]
901-10798	Straight Crimp Front Mount Jack Bulkhead, 1.37 mm	0.118" [3.00 mm]
901-10799	Straight Crimp Front Mount Jack Bulkhead, RG-178	0.118" [3.00 mm]
901-10812	Straight Crimp Front Mount Jack Bulkhead, RG-178	0.197" [5.00 mm]
901-10813	Straight Crimp Front Mount Jack Bulkhead, RG-316DB	0.289" [7.35 mm]
901-10814	Straight Crimp Front Mount Jack Bulkhead, RG-402	0.142" [3.60 mm]
901-10816	Straight Crimp Front Mount Jack Bulkhead, RG-58	0.190" [4.83 mm]

IP67 SMA Rear Mount Bulkhead Jacks

Part Number	Description	Max Panel Thickness
901-10793	Straight Crimp Rear Mount Jack Bulkhead, 0.81 mm	0.118" [3.00 mm]
901-10794	Straight Crimp Rear Mount Jack Bulkhead, 1.37 mm	0.118" [3.00 mm]
901-10795	Straight Crimp Rear Mount Jack Bulkhead, RG-178	0.118" [3.00 mm]

IP67 RP-SMA Front Mount Bulkhead Jacks

Part Number	Description	Max Panel Thickness
901-10808	Straight Crimp Front Mount Jack Bulkhead, 0.81 mm	0.118" [3.00 mm]
901-10809	Straight Crimp Front Mount Jack Bulkhead, 1.32 mm	0.118" [3.00 mm]
901-10810	Straight Crimp Front Mount Jack Bulkhead, 1.37 mm	0.118" [3.00 mm]
901-10811	Straight Crimp Front Mount Jack Bulkhead, RG-178	0.118" [3.00 mm]

IP67 RP-SMA Rear Mount Bulkhead Jacks

Part Number	Description	Max Panel Thickness
901-10800	Straight Crimp Rear Mount Jack Bulkhead, 0.81 mm	0.197" [5.000 mm]
901-10801	Straight Crimp Rear Mount Jack Bulkhead, 1.32 mm	0.197" [5.000 mm]
901-10802	Straight Crimp Rear Mount Jack Bulkhead, 1.37 mm	0.197" [5.000 mm]
901-10803	Straight Crimp Rear Mount Jack Bulkhead, RG-178	0.157" [4.000 mm]

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Technical Specifications

Electrical

Impedance	50Ω
Frequency Range	DC - 6 GHz
Voltage Rating	333 V RMS Max Continuous
Dielectric Withstanding Voltage	1000 VRMS Min
VSWR (Return Loss)	Varies
Insulation Resistance	5000 MΩ Min
Center Contact Resistance	3.0 mΩ Min
Outer Contact Resistance	2.0 mΩ Min

Environmental

Temperature Range	−65°C to +165°C
RoHS Compliance	Compliant with Excemption 6C

Mechanical

Mating Cycles	500 Min
Coupling Mechanism	Threaded

Materials

Body	Brass, Nickel Plating
Contact	Beryllium Copper, Gold Plating
Hex Nut	Brass, Nickel Plating
Lock Washer	Brass, Nickel Plating
Insulator	PTFE, Natural
Ferrule	Copper, Nickel Plating
Gasket	Silicone Rubber, Red
O-Ring	Silicone Rubber, Blue

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