



Ordering Information

Ultraminiature Connectors



Part Number	Description	PCB Footprint	Mated Height
A-1JB	AMC Straight PCB Jack, Surface Mount	3 mm x 3 mm	2.5 mm
A-4JA	AMC4 Straight PCB Jack, Surface Mount	2 mm x 2 mm	1.4 mm
A-2JA	AMMC Straight PCB Jack, Surface Mount	2 mm x 2 mm	1.4 mm

Overview

Amphenol RF ultraminiature product series' (AMC, AMC4 and AMMC) feature low profile PCB connectors with small board footprints. These series utilize the popular snap-on coupling mechanism for secure and easy mating and are available in a variety of connector, adapter and pre-configured cable assembly configurations. Cable assemblies are designed using various micro coax and flexible cable types.

Ultraminiature connectors operate at 50 ohm impedance and provide excellent electrical performance from DC to 6 GHz. These products are ideal for applications with space constraints such as IoT infrastructure and consumer devices.

Features and Benefits

- Easy snap-on/snap-off mating
- Ultra low profile
- Small footprint
- 100% compatible with industry standard options

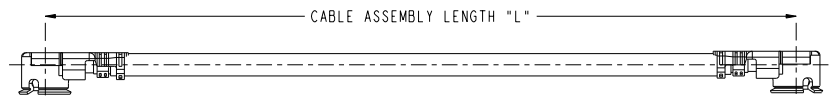
Applications

- RFID
- Notebook Computers
- Remote Measuring Equipment
- Bluetooth
- GPS
- Handheld and Portable Devices

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

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



AMC Cable Assemblies

	A-1PA	-	113-	100	B	2
Series						
A-1PA = AMC Connector Series						
Connector Orientation:						
- = 0° F = 180°						
C = 90° H = 270°						
Cable Type:						
081 = 0.81 mm 137 = 1.37 mm						
113 = 1.13 mm 178 = RG-178						
132 = 1.32 mm						
Assembly Length in mm (Dim L)						
Standard lengths: 050, 100, 150, 200, 250, 300 mm						
Cable Color						
B = Black W* = White N* = Natural (RG-178 Only)						
G* = Gray U* = Blue						
R* = Red E* = Green						
No. of Terminated Ends (1 or 2)						

AMC4/AMMC Cable Assemblies

	U-1PU-	113-	100	B	2
Series					
U-1PU = AMC4 Connector Series					
A-2PA = AMMC Connector Series					
Cable Type:					
081 = 0.81 mm					
113 = 1.13 mm					
Assembly Length in mm (Dim L)					
Standard lengths: 050, 100, 150, 200, 250, 300 mm					
Cable Color					
B = Black					
No. of Terminated Ends (2)					

Amphenol® RF

Technical Specifications

Electrical		AMC	AMC4	AMMC
Impedance			50 Ohm	
Frequency Range			DC - 6 GHz	
Voltage Rating			60 Volts RMS Max Continuous	
Dielectric Withstanding Voltage			200 VRMS Max	
VSWR (Return Loss)	DC - 3 GHz		1.3 (-18 dB) Max	
	3 - 6 GHz		1.4 (-16 dB) Max	
Center Contact Resistance			20 mΩ Min	
Outer Contact Resistance			10 mΩ Min	
Power Handling			14W @ 1 GHz @ 25°	

Environmental	
Temperature Range	-40°C to +90°C

Mechanical	
Mating Cycles	30 Min
Coupling Mechanism	Snap-On

Materials			
Body	Phosphor Bronze, Silver Plating	Copper Alloy, Gold Plating	Phosphor Bronze, Silver Plating
Contact	Phosphor Bronze, Gold Plating	Copper Alloy, Gold Plating	Brass, Gold Plated
Insulator	PBT	High Temperature Engineering Plastic	

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

Compatibility and Cable Options

	PCB Footprint	Mated Height	Compatibility	0.81	1.13	1.32	1.37	RG-178
AMC	3 mm x 3 mm	2.5 mm	Hirose U.FL, IPEX MHF	•	•	•	•	•
AMC4	2 mm x 2 mm	1.4 mm	IPEX MHF4		•			
AMMC	2 mm x 2 mm	1.4 mm	Hirose W.FL, IPEX MHF3	•	•			

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