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Amphenol® RF

AMC Product Series

Amphenol Micro Coaxial Products



Overview

Amphenol Micro Coaxial (AMC) connectors are low profile (2.5mm mating height) with an extremely small footprint (3mm x 3mm). Their space-saving design makes these connectors an optimal solution for portable and mobile devices. AMC connectors are fully compatible with the Hirose U.FL series.

Standard AMC Jumper Cables are available and in stock at many of the most common distributors. These jumpers offer an AMC right angle plug to AMC right angle plug on industry standard black 0.81mm, 1.13mm, 1.32mm, and 1.37mm Micro-Coaxial Cable. Custom solutions available upon request.

Features and Benefits

- Supports high frequency transmission from DC to 6GHz
- Ideal for applications where space and weight are a concern
- Easy snap on/off mating
- Surface mount allows for higher PC board densities and automated pcb placement

Applications

- Antennas
- Bluetooth
- GPS
- WLAN
- Cellular and Mobile Devices
- Tablets and Notebook Computers


Amphenol RF

Four Old Newtown Road
 Danbury, CT 06810

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

Ordering Information

AMC PCB Connectors

	Part Number	Part Description
	A-1JB	AMC Straight PCB Jack, Surface Mount, 3000 Piece Reel, 50 Ohms

AMC Adapters

Part Number	Part Description
031-6101	MC Plug to TNC RP Jack, Panel Mount, 6GHz, 50 ohm
031-6101-1	AMC Plug to TNC RP Jack, Panel Mount, 3GHz, 50 ohm
031-6109	AMC Plug to BNC RP Jack, Bulkhead, 50 ohm
031-6112	AMC Plug to TNC RP Jack, Bulkhead, 50 ohm
031-6137	AMC Plug to TNC RP Jack, Panel Mount, 50 ohm
031-6208	AMC Plug to TNC Jack, Bulkhead, 50 ohm
901-10097	AMC Plug to SMA RP Jack, Bulkhead, 50 ohm
901-10175	AMC Plug to SMA Jack, Bulkhead, 50 ohm
901-10395	SMA RP Jack to AMC Jack, Bulkhead, 50 ohm

AMC Jumper Assemblies



	A-1PA-	113-	100	B	2
Series:					
AMC Jumper					
Cable Type					
081* = 0.81mm					
113* = 1.13mm					
132* = 1.32mm					
137* = 1.37mm					
178* = RG-178					
Assembly Length in mm (Dim L)					
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*)					

* standard configuration options

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Technical Specifications

Electrical

	AMC PCB Mount Connectors	AMC Jumpers
Impedance	50Ω, nominal	
Frequency Range	DC - 6 GHz	
Contact Resistance	Center Contact: 20 mΩ Max.	
	Outer Contact: 10 mΩ Max.	
Insulation Resistance	500 mΩ Min.	
Operating Voltage	500 VRMS	
DWV	No line or insulation breakdown: 200 VAC for 1 Min	
VSWR	1.3 Max. at DC - 3 GHz, 1.35 Max. at 3 - 6 GHz	1.300 Max. at DC - 3 GHz, 1.400 Max. at 3 - 6 GHz

Mechanical

Durability	30 cycles
Temperature Range	-40° to +90°C
Mating	Demating Force 10N Typical – 20N Max

Materials and Finishes

Connector Body	Phosphor bronze, silver plated (0.76u Min.) over copper (1u Min.)	
Connector Center Contact	Phosphor bronze, gold plated (0.2u min.) over nickel (2-3u)	Phosphor bronze, gold plated (0.076u min.) over nickel (2u Min)
Connector Insulator	PBT	
Cable Jacket	FEP	
Cable Dielectric	FEP	
Cable Center Conductor	Annealed copper wire stranded, silver plated	
Cable Outer Conductor	Annealed copper wire braid, tin plated	

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