



## 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 industry-standard Hirose U.FL and IPEX MHF1 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 0.81 mm, 1.13 mm, 1.32 mm and 1.37 mm 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](http://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 Ohm

### AMC Adapters

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

### AMC Jumper Assemblies



	A-1PA-	113-	100	B	2
<b>Series:</b>	AMC Jumper				
<b>Cable Type</b>	081* = 0.81 mm				
	113* = 1.13 mm				
	132* = 1.32 mm				
	137* = 1.37 mm				
	178* = RG-178				
<b>Assembly Length in mm (Dim L)</b>					
<b>Cable Color:</b>	B* = Black      W = White      N* = Natural (RG-178 Only)				
	G = Gray      U = Blue				
	R = Red      E = Green				
<b>No. of Terminated Ends (1 or 2*)</b>					

\* standard configuration options

## Technical Specifications

### Electrical

	AMC PCB Mount Connectors	AMC Jumpers
Impedance	50Ω, nominal	
Frequency Range	DC - 10 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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