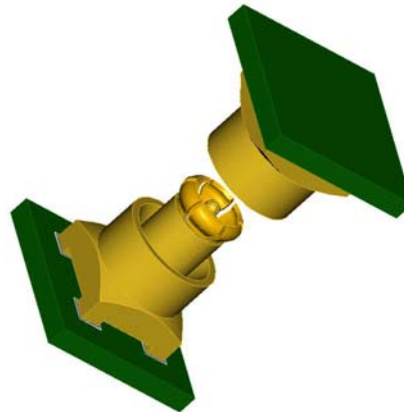


Amphenol® RF

AFI Connectors

Amphenol RF introduces the AFI connector interface as a solution for board-to-board RF applications, especially for the military and broadband marketplaces. The AFI interface utilizes a proprietary configuration that allows for industry leading “float” to compensate for the axial and radial misalignment due to packaging tolerances.

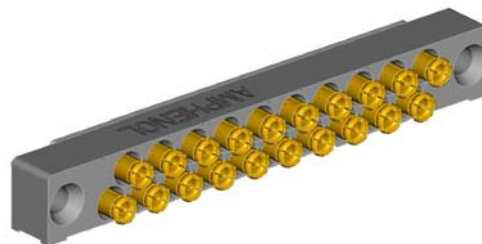


Applications:

- Military-Aerospace
- Broadband
- CMTS
- Internet Switch / Routers
- Telecommunications

Features:

- Available as AFI-75 for DC-3 GHz 75 Ω systems and AFI-50 for DC-6 GHz 50 Ω systems.
- Proprietary configuration that allows for industry leading “float”.
- Industry leading float system of .030” [0,8 mm] radial and .040” [1,0 mm] axial.
- In-line or Dual-row versions available



AFI Connectors

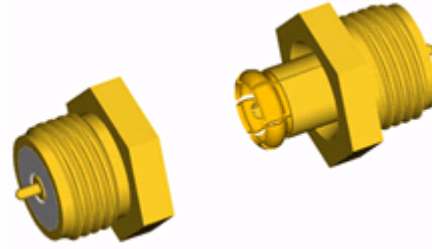
Ordering Information

Part Number Overview

920-1VVX – Y1Z

920: AFI Series
VV: Sequential #
X: Connector Sex
• P (Plug)
• J (Jack)
• A (Adapter)

Y: Impedance
• 5 (50 Ω)
• 7 (75 Ω)
Z: Body Style
• S (Straight)
• A (Right Angle)
• P (PCB)



920-137P-51S
920-138J-51S

Available AFIs

Plugs

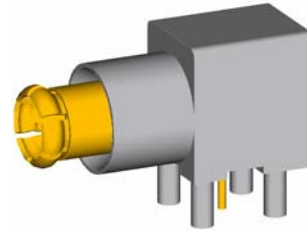
920-123P-71P: AFI-75 Straight Plug for PCB Edge mount
920-132P-71P: AFI-75 Straight Plug for PCB
920-137P-51S: AFI-50 Straight Plug Receptacle Bulkhead
920-140P-71A: AFI-75 R/A Plug for PCB
920-141P-71S: AFI-75 Straight Plug for PCB

Jacks

920-133J-71P: AFI-75 Straight Jack for PCB
920-138J-51S: AFI-50 Straight Jack Receptacle Bulkhead

Adapters

920-112A-71S: AFI-75 Plug to Plug Adapter for Floating Gang Mate
920-139A-51S: AFI-50 Plug to Plug Adapter for Floating Gang Mate
920-144A-51S: AFI-50 Straight Plug to Plug Bullet
920-145A-51S: AFI-50 Jack to MCX Plug Adapter
920-146A-51S: AFI-50 Plug to MCX Jack Adapter



920-140P-71A

Item	Specification	Specification
1. Impedance	50 Ω (Nominal)	75 Ω (Nominal)
2. Frequency Range	DC to 6 GHz	DC to 3GHz
3. V.S. W. R. (Return Loss, Straight Connectors)	1.1 (26.4 dB) DC - 1 GHz 1.2 (20.8 dB) 1 - 3 GHz 1.3 (17.7 dB) 3 - 6 GHz	1.12 (-25dB) DC- 1GHz
4. RF Leakage	-70 dB	-70 dB
5. Power Handling	95 WATTS	95 WATTS
6. Durability	100 cycles	100 cycles
7. Engagement Force	0.5 – 5.0 lb Typical	0.5 – 5.0 lb Typical
8. Disengagement Force	0.5 - 3.0 lb Typical	0.5 - 3.0 lb Typical
9. Temperature Range	-40°C to +80°C	
10. Materials		
Female Body	Nickel over brass, aluminum or zinc diecast	
Male Body	Gold over spring copper alloy	
Pin Contact	Gold over spring copper alloy	
Socket Contact	Gold over spring copper alloy	
Insulator	PTFE, TPX	