FEATURES & BENEFITS
Available as AFI-75 for DC-3 GHz 75 Ohm systems and AFI-50 for DC-6 GHz 50 Ohm systems
Proprietary configuration that allows for industry leading misalignment/"float"
Innovative float system of .030” [0.8 mm] radial and .040” [1.0 mm] axial
In-line or Dual-row versions available

APPLICATIONS
Military / Aerospace
Cable Modem Termination Systems (CMTS)
Internet (Routers and Switches)
Telecommunications
Amphenol RF introduces the AFI connector interface as a solution for blind mate 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. This industry-leading float results in a maximum misalignment allowed by the system of .030" [0.8 mm] radial and .040" [1.0 mm] axial. The interface is available in both 75 Ohm and 50 Ohm configurations.

### AFI - 50 Ohm Specification

**Electrical**
- Impedance: 50 Ω
- Frequency Range: DC to 6 GHz
- VSWR (Straight Connectors): -25dB @ 1GHz
- RF leakage: -70 dB
- Power Handling: 95 WATTS

**Mechanical**
- Engagement Force: 0.5 - 5 lbs. max
- Disengagement Force: 0.5 lbs. min
- Connector Durability: 100 mating cycles

**Environmental**
- Temperature Range: -65°C to +165°C

### AFI - 75 Ohm Specification

**Electrical**
- Impedance: 75 Ω
- Frequency Range: DC to 3 GHz
- VSWR (Straight Connectors): -25dB @ 1GHz
- RF leakage: -70 dB
- Power Handling: 95 Watts

**Mechanical**
- Engagement Force: 0.5 - 5 lbs. max
- Disengagement Force: 0.5 lbs. min
- Connector Durability: 100 mating cycles

**Environmental**
- Temperature Range: -65°C to +165°C

### Need AFI Custom I/O Solutions?

Amphenol RF offers two interconnect solutions for both board to board and I/O applications. The proprietary AFI interface solves packaging design issues with its industry leading float which compensates for mechanical misalignment in stacked PCB's and daughter board/mother board applications. The MCX based solution is utilized for I/O or PCB cabled applications with flexible mounting configurations that solve the toughest packaging design constraints.

Please contact your local sales representative for AFI custom solutions.