

## Low-PIM RF Assemblies



311201 & 310801 Low-PIM Cable Assemblies

### MINIMIZING PIM

There are six components of connector designs that must be evaluated when considering a low-PIM design: Contact design, connector interface, connector internal junctions, cable attachment, materials, and plating.

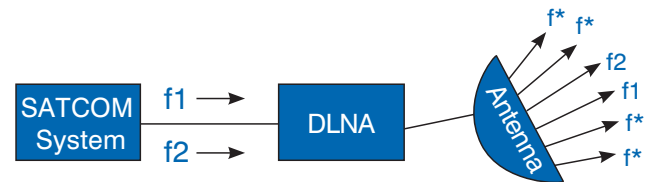
Amphenol CIT application engineering has developed specialized low-PIM cable assemblies for antenna and electronic system installation.

The prevention of PIM only starts with high-performance designs and components. The most common source of PIM is created within the coaxial component terminations. Contamination-free precision assembly technique is essential for low-PIM performance.

Amphenol CIT application and manufacturing engineers have optimized our low-PIM cable and connector products and developed termination procedures for clean, tight-tolerance RF assemblies that will reduce the introduction and effects of PIM into your performance-driven SATCOM systems.

### WHAT IS PIM?

Passive Intermodulation, also known as PIM, is the generation of unwanted signals by passive components with non-linear characteristics. These unwanted signals can effectively block desired signals or cause interference in other systems.



Description	Fits Cable Type
Right-Angle TNC Connector	311201
Straight TNC Connector	311201
Straight N Connector	311201
Bulkhead TNC Jack	311201
ARINC 600 Size 1 Pin	311201
ARINC 600 Size 1 Socket	311201
Right-Angle TNC Connector	310801
Straight TNC Connector	310801
Straight TNC Connector	310701

### SPECIFICATIONS

- » Designed primarily for use in ARINC 781-compliant SATCOM antenna systems
- » Current offerings include RF assemblies with TNC and Type N connectors in various configurations for 310701, 310801, and 311201 cable types
- » Every Amphenol CIT RF cable assembly is fully tested to guarantee electrical and physical integrity, maintain high quality, ensure reliability, and comply with system requirements
- » Proven low-PIM performance during temperature cycling (DO-160E Section 4 Category F2 and Section 5 Category A) and vibration testing (DO-160E Section 8 Category S Curve C)

When performance matters, our low-PIM RF assemblies provide proven performance in demanding applications.