

Avionics RF Assemblies

Low Loss, Low Frequency RF Cable Assemblies



Left to Right: 310801 to N Plug, 311201 to TNC 90 Plug, 311501 to N Bulkhead Jack, 311601 to Size 1, 352001 to Modified Size 1, 3C058A to Size 5

HIGH PERFORMANCE / PROVEN RELIABILITY

At Carlisle Interconnect Technologies (CarlisleIT), we understand how critical it is in today's highly competitive market for aircraft manufacturers and operators to control cost. Lightweight and high-performance are the keys to reducing operational expenses. That is why CarlisleIT continues to design and manufacture both standard RF cables/cable assemblies and low PIM assemblies with design features that maximize system integrity and minimize cost of ownership.

KEY FEATURES

- » Up to 75% lighter than Mil-C-17 standard cables
- » Bend radii ranges between .75 – 2 inches
- » -55° to 200° temperature range
- » Multi-layered shielding provides superior protection against EMI/RFI
- » Minimal Insertion Loss
- » Meets or exceeds FAR Part 25 Burn/Smoke requirements
- » Product ID marker tape with identification every 3-4 inches.
- » Low PIM assemblies made with non-ferromagnetic properties to reduce multi-frequency interference

BENEFITS

- » Easier to install (smaller, lighter, more flexible)
- » Built to your specifications
- » Just-in-time delivery
- » Tested to meet system specifications and test data is shipped with assembly
- » Test data is retained for future orders
- » Expert Termination

SUPPORTED SYSTEMS / FREQUENCIES

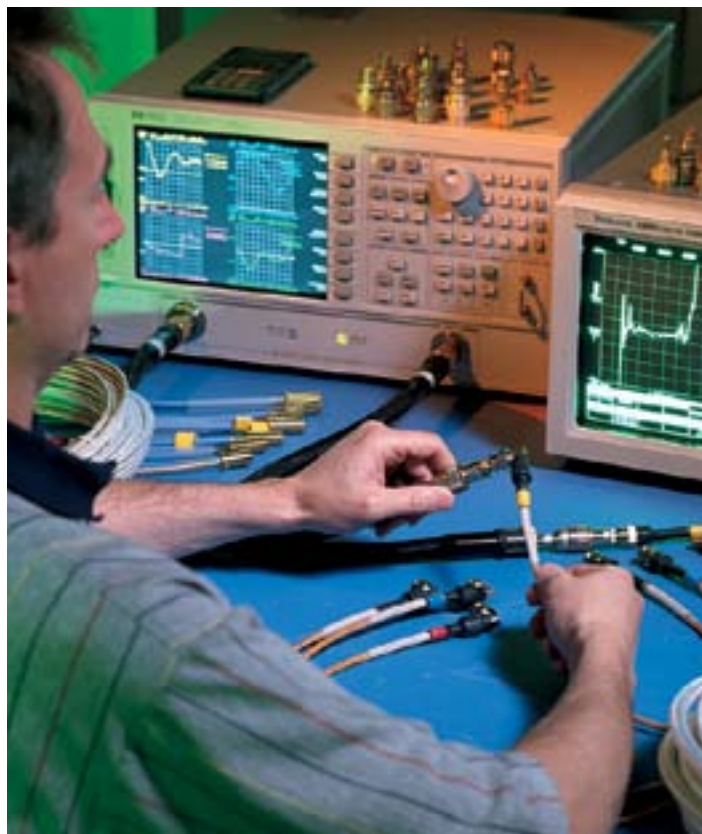
- » HF / 2 - 30 (MHz)
- » Marker Beacon / 75 (MHz)
- » VOR / LOC/108 - 118 (MHz)
- » VHF / 118 - 156 (MHz)
- » Glide Slope / 329 - 335 (MHz)
- » TCAS / 1030, 1090 (MHz)
- » DME / 960 - 1220 (MHz)
- » GPS / 1575 (MHz)
- » SATCOM / 1559, 1660 (MHz)
- » XM, Wi-Fi / 2200 - 2400 (MHz)
- » Radar Altimeter / 4200 - 4400 (MHz)
- » MLS / 5030 - 5091 (MHz)
- » IFE - KU Band / 10.7 - 12.75 GHz

High Performance / Proven Reliability

QUALITY ASSURANCE

Each Avionics RF Cable assembly is tested on our network analyzers to maintain high quality and ensure reliability. Insertion Loss, Phase Matching, Time Delay and VSWR are measured to verify performance and to meet your exact assembly requirements.

RF Assembly electrical profiles are documented and a certificate of compliance is included with each ship-set. Profiles are archived in our database to ensure repeatability. Individual, phase-matched cables can be remanufactured rather than replacing an entire ship-set.



Test & Measurement



Heat Shrink Wrapping



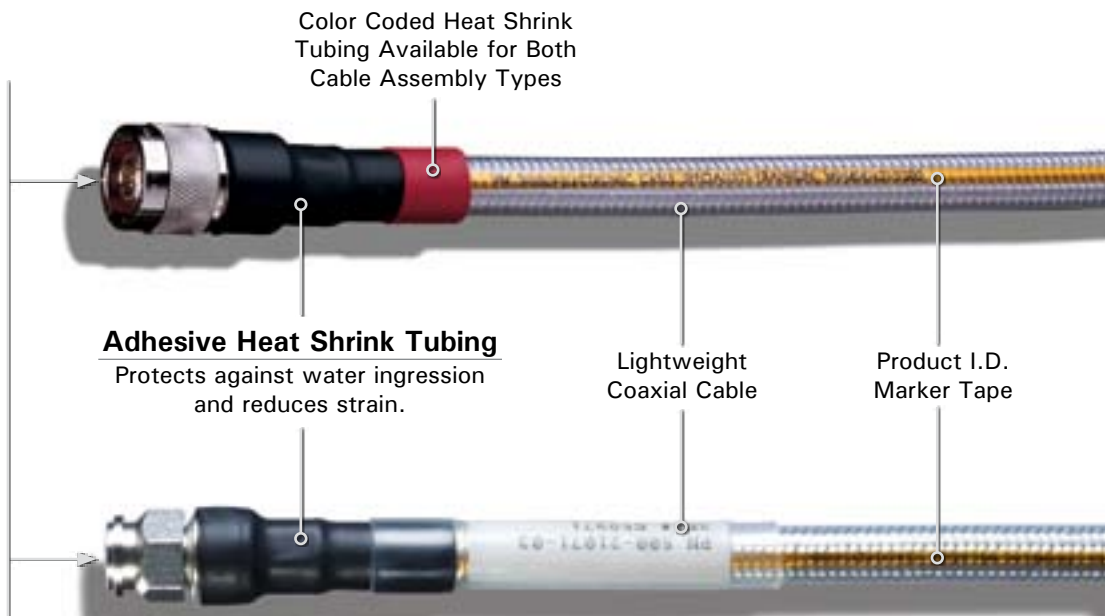
Termination

Standard CarlisleIT RF Cable Assemblies

CarlisleIT Standard Heavy Duty Connectors are made from corrosion resistant materials and seal out moisture.

Low PIM CarlisleIT RF Cable Assemblies

CarlisleIT Low PIM Connectors are made from non-ferromagnetic materials. They are corrosion resistant and seal out moisture.



Standard RF and Low PIM Cable Assemblies Offer Low Loss & Low VSWR Performance