

# SPACE CAPABILITIES



**MICRO-COAX<sup>®</sup>**  
*Leading the way in transmission line solutions.*



At Micro-Coax, we've supplied high-reliability products for in-orbit spaceflight applications for over three decades. Our long track record in the microwave transmission line arena means you can count on us to deliver proven solutions to your most demanding satellite designs. Some of our products include UTIFLEX® Flexible Microwave Cables, Semi-Rigid Products and Cable Integrated Components.

## NASA Certified

- Micro-Coax assemblers are trained and certified to complete hand soldering operations in accordance with NHB 5300.4 (3A-2)

## Clean Room Assembly Processes

- Class 100 clean room environment for the construction of spaceflight assemblies and components
- Class 1000 clean room for inspection, x-ray, and packaging
- Assembly and component packages are purged and backfilled with nitrogen before being heat-sealed

## Multipaction Resistant

- Many custom and standard connector designs are available for multipaction-sensitive applications
- Custom connector designs for multipaction applications are designed in accordance with NASA and ESTEC recommendations

## Radiation Resistance

- UTIFLEX cable assemblies for spaceflight applications are offered with carbon-loaded Tefzel® jacket
- Standard cable designs are proven to resist up to 30 Mrads of radiation

## Minimized Passive Intermodulation Interference

- Cable & connector materials and finishes are carefully selected to minimize effects due to passive intermodulation

## Excellent Thermal Stability

- Micro-Coax offers a wide selection of cables which optimize loss and phase stability versus temperature

## Ultra Low Weight

- Micro-Coax has teamed with DuPont to offer cable constructions built with Aracon® Metal Clad Fiber. Our ultra light cable constructions can weigh up to 35% less with no sacrifice in electrical or mechanical performance

## Non-Outgassing Materials

- Micro-Coax spaceflight cable assemblies are manufactured with parts and materials with a maximum Total Mass Loss (TML) of 1% or Collectible Volatile Condensable Material Level of 0.1% when tested per ASTM E-595

## Time to Market

- Micro-Coax offers rapid development and prototyping using advanced electromagnetic and CAD solids modeling tools



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