



Miniature and Micro-Miniature Coaxial Cables

New England Wire Technologies designs, manufactures and tests a wide range of coaxial cables to meet the needs of medical device and electronics manufacturers. Our custom coaxes are manufactured to meet the particular impedance, capacitance or other exacting electrical requirements requested by our customers and tailored to the needs of the specific application.

New England Wire offers custom options for the center conductor, dielectric, shield and jacket including high strength alloy conductors for superior flex life and foamed dielectrics for reduced size and attenuation. In addition, we have the capability to combine multiple coaxes with other components into larger instrumentation cables. Short lead times and low minimum order quantities make New England Wire the superior choice for custom coaxial cables.

CONDUCTORS:

- Full range of conductor materials including bare copper, plated copper & high strength alloy
- Typically stranded for improved flexibility
- Miniature (24-32 AWG) sizes available
- Micro-Miniature (34-46 AWG) sizes available

DIELECTRIC:

- Selected based on electrical, temperature & size requirements
- Materials include:
 - Polyethylene
 - Polypropylene
 - FEP
 - PFA
 - ETFE
 - NEWcel® High Velocity Foamed Dielectrics

SHIELD:

- Typically designed for high shield coverage to maximize shield effectiveness
- Shielding options include braid, spiral, aluminum foil or a combination thereof

JACKET: Material selected based on application

CUSTOM DESIGN OPTIONS:

- Ultra flexible
- High flex life
- High temperature
- Fluid & chemical resistance
- Sterilization Autoclave
- Low-noise (NEWtral®)
- UL AWM rating
- Biocompatible
- Phthalate, latex, PBA, ADM free
- RoHS compliant
- REACH
- FDA
- ISO10993
- AND More...