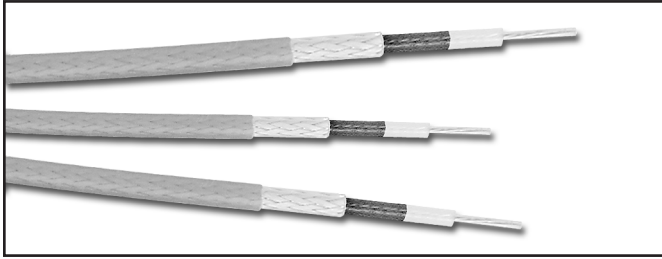# Low-Noise Coaxial Cables

Construction Options

Jacket: Tape wrapped PTFE; extruded jacket or our unique *Seamless Wrap* PTFE tape optional.

Shield: Nickel- or silver-plated copper.

Dielectric: Tape wrapped PTFE with semiconductive inner and outer PTFE tape.

Center Conductor: Nickel or silver-plated stranded copper.

Options: Wide variety of options for conductor and shield materials and plating and configurations of low-noise layering available.

Thermax Low-Noise cables minimize triboelectric noise generated by cable movement, as well as providing superior shielding to protect signals from external interference.

These cables are ideal for use with piezoelectric accelerometers or other sensitive transducers, or other applications with low-power signals and/or electrically noisy environments.

They are also used in airborne EVM (Engine Vibration Monitoring) systems, with approvals from many major aerospace manufacturers.

The cables shown below are just a few examples of our low-noise coaxial cable expertise. Many other combinations of materials and construction can be used to produce a low-noise cable that will fulfill your needs; please contact your Thermax representative with your requirements.

Low-Noise Coaxial Cable—Dimensions, Materials, and Weights

Thermax P/N	Conductor AWG / Diameter Stranding / Material	Dielectric Diameter Material	Shield Diameter AWG / Material	Jacket Diameter Material	Weight	Impedance
RGU-404	30 .012 (.30) 7/38 SPCW	.034 (.86) Extruded PTFE	.052 (1.32) 38 SPC	.075 (1.91) Extruded FEP	6.1 (9.1)	50Ω
50-742TFSXE	34 .0075 (.19) 7/42 SPCA	.022 (.56) Extruded PTFE	.034 (.86) 40 SPC	.048 (1.22) Extruded FEP	3.0 (4.5)	50Ω

Dimensions in inches (mm). Weights in pounds/1000 feet (Kg/1000 M). All values are nominal unless otherwise indicated. **NPC:** Nickel-plated copper. **SPC:** Silver-plated copper. **SPCA:** Silver-plated high-strength copper alloy. **SPCW:** Silver-plated copper-covered steel (copperweld).

Eastern USA: (888) 761-7800 • Western USA: (800) 423-5873
Asia: (818) 701-0565 • Other International: (203) 284-9610

Thermax www.thermaxcdt.com 23