

Audio Cables

When your high-end speaker or interconnect cable requirements call for the latest high-performance materials, Thermax/CDT should be your first choice. Our experience in commercial aircraft cabin communications and in-flight entertainment systems means we have the knowledge to design audio cables that deliver clean, clear signals.

We can apply our technical and manufacturing expertise to your most demanding applications.

Put our expertise to work for you in the design of audio cables that provide controlled or optimized impedance and capacitance.

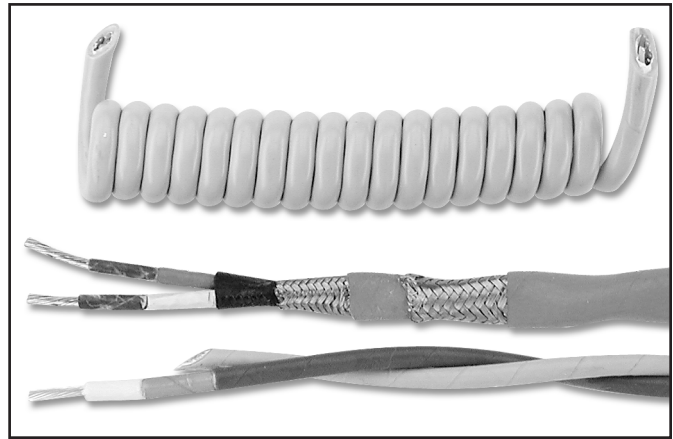
We also offer constructions with reduced inductance in order to minimize signal loss, thereby maintaining signal integrity even over long cable runs.

Our low-noise designs are especially suited to wired microphone applications. Besides providing excellent shielding, the design of these cables minimizes triboelectric noise produced by cable movement.

Audio cables can be supplied with our unique LTE expanded PTFE dielectric for increased signal speed and light weight (see page 3 for details).

The material options listed on this page represent typical choices for high-performance audio cables.

Please contact your Thermax representative with your specific requirements.



Construction Options

Typical interconnect and speaker cable materials:

Conductors: Stranded or solid copper or OFHC copper.
Silver or tin plated.

Insulation: FEP; LTE;* PTFE; PVC; polyethylene; polypropylene.
*LTE is our proprietary expanded extruded PTFE dielectric with enhanced performance such as a dielectric constant of 1.38, and velocity of propagation up to 85% (see page 3 for more details).

Shields: Aluminum/Mylar foil; copper braid, either flat or round wires (silver or tin plated); silver-plated copper Strip Braid or Spiral Strip. Custom combinations of shield types available for enhanced shielding and crosstalk resistance.

Jackets: PVC, available in various durometers and custom matte finishes. PVC is the standard material for audio cables because of its great flexibility, but other jacket materials can be supplied as well.

Typical microphone cable materials:

Conductors: Stranded or solid copper or OFHC copper.
Silver or tin plated

Insulation: LTE;* polyethylene; polypropylene; TPR.
*LTE is our proprietary expanded extruded PTFE dielectric with enhanced performance such as a dielectric constant of 1.38, and velocity of propagation up to 85% (see page 3 for more details).

Low-Noise Insulation: Semiconductive PVC or PTFE tape.

Shields: Aluminum/Mylar foil; copper braid, either flat or round wires (silver or tin plated); silver-plated copper Strip Braid or Spiral Strip. Custom combinations of shield types available for enhanced shielding and crosstalk resistance.

Jackets: PVC, available in various durometers and custom matte finishes. PVC is the standard material for audio cables because of its great flexibility, but other jacket materials can be supplied as well.