

Aircraft Entertainment System Cables

As commercial aircraft entertainment systems become increasingly sophisticated, the technology of the cables used in the systems is an important factor in clean signal delivery.

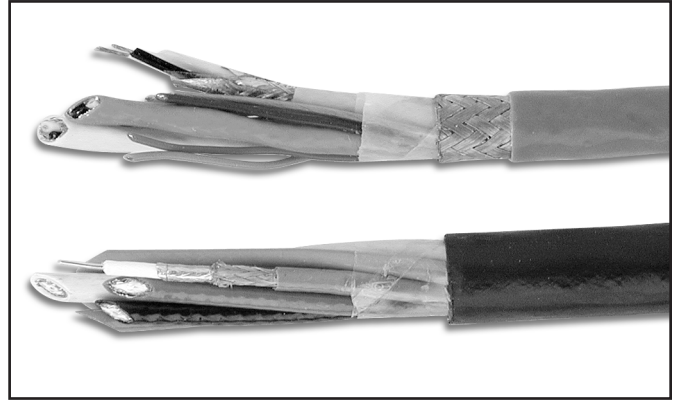
Thermax aircraft entertainment system cables are custom designs that are composed of materials that best suit not only the electrical and electronic characteristics of the specific system, but meet safety and reliability requirements as well.

These cables typically include coaxial and/or high-speed twisted-pair twinaxial data cables (such as the MaxFlite cables shown on pages 4 and 5), along with other component wires for power and signal transmission.

The data-transmission cable components can also be supplied with our unique LTE expanded PTFE dielectric for increased data speed and light weight (see page 3 for details).

The material options listed on this page represent typical choices for in-flight environments.

Please contact your Thermax representative with your specific requirements.



Construction Options

Component wires:

Conductors: Tin-plated stranded copper. Also available in high-strength copper alloy. Nickel or silver plating available for higher temperature rating than tin plating.

Insulation: Extruded FEP, PTFE, composite types, and ETFE available depending on application.

Coaxial cables:

Light weight, low-loss types with LTE expanded extruded PTFE dielectric for velocity of propagation up to 80%; 50 or 75 ohm impedance (see pages 13 for standard types).

Silver-plated copper shield, with extruded FEP jackets; other jacket materials available.

Twisted-pair data cables:

Conductors: 24 AWG (19/36) silver-plated high-strength copper alloy conductors.

Primary Insulation: LTE expanded extruded low-density PTFE, or other insulation types.

Shield: 38 AWG nickel-plated copper.

Jacket: Extruded FEP, PTFE, composite types, and ETFE available depending on application.

These cables can include our MaxFlite (100 Base-T Ethernet) data cables—see page 4 for details.

Cabling:

Component wires and cables are cabled together and jacketed with FEP, ETFE, or high-density polyurethane.

Identification:

As required, including permanent laser marking.