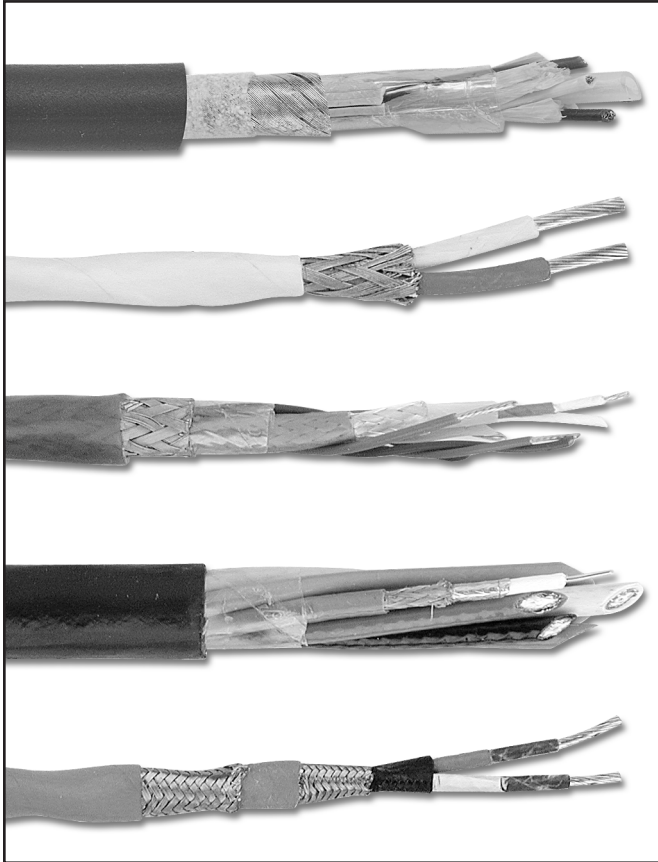


Flight Test Cables



Construction Options

Typical flight test cable materials:

Conductors: Stranded or solid copper; high-strength copper alloy; copper-clad steel.
Nickel, silver, tin, or 27% nickel plating.

Insulation: ETFE; FEP; LTE;* PFA; PTFE; composite mica/glass.
*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 or high-strength copper alloy braid, either flat or round wires.
Nickel, silver, or tin plated.
Custom combinations of shield types available for enhanced shielding and crosstalk resistance.

Jackets: ETFE; FEP; PFA; PTFE; glass braid.
PTFE jackets available with our unique **Seamless Wrap** PTFE tape (see page 2 for details).
Color: Orange with optional white stripe.

Almost any wire or cable in this catalog can be supplied as a Flight Test cable, with industry-standard orange jacket for identification.

As a leader in aerospace wire and cable, we can apply our technical and manufacturing expertise to your most demanding applications especially in severe environments and high temperatures.

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

Our expertise in sensor cable design helps ensure that sensor data is transmitted cleanly to monitoring or recording equipment.

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

We have a full range of thermocouple cables designed to the new SAE AS5419 specification.

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

Please contact your Thermax representative with your specific requirements.