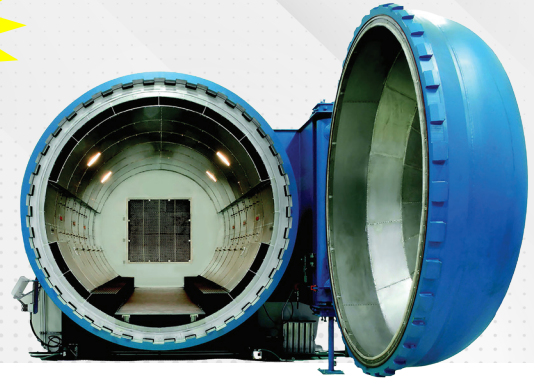


AccuFlex™

Low Profile, Flat Thermocouple Cable Assemblies

AccuFlex assemblies help make composite field repairs easy

The most trusted name in thermocouple wire since 1941



Overview

AccuFlex™ Thermocouple Assemblies are innovative, ultra-low-profile flat thermocouple solutions engineered for composite repair and autoclave processing applications. Developed as part of the AccuClave pre-assembled thermocouple family, **AccuFlex™** was inspired by the need for extremely small cross-section thermocouple wire used in field repairs of aircraft composite structures—such as flight control surfaces—where minimal surface mark-off is critical after trimming.

Traditionally, 36-gauge round wire was used to minimize post-repair visibility. However, this small-diameter wire is fragile, costly, difficult to handle, and exhibits very high electrical resistance—potentially compromising temperature measurement accuracy.

AccuFlex™ solves these challenges through a proprietary flat-wire design:

- Equivalent cross-sectional area of 28 gauge wire
- Same height as 36 gauge wire (0.005")
- Six times lower resistance than standard 36 gauge wire
- Nearly imperceptible mark-off after trimming

The assembly consists of a matched pair of J or K calibration, special-grade flat thermocouple conductors, laminated between durable polyimide tape layers. At its thickest point, the laminated profile is less than 0.012"—four times thinner than a typical insulated 28-gauge round wire pair—and measures ¼" wide.

Each assembly features:

- Injection-molded ASTM standard pin configuration connector
- Precision welded, low-mass flat tc junction for fast response time
- Available in multiple lengths
- Maximum temperature rating: 260°C / 500°F

Key Benefits

- Ultra-low profile for composite repair applications
- Improved accuracy through reduced electrical resistance
- Faster thermal response
- Durable laminated construction
- Ideal for aerospace MRO, composite layups, and autoclave cure cycles

AccuFlex™ delivers the performance of larger-gauge thermocouples in a compact, trim-friendly profile—ensuring reliable temperature measurement without compromising surface integrity.

Applications

- Autoclaves
- Composites
- Food, drug, biotech
- Environmental chambers



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Autoclave Extension Cable Assembly

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TE Wire & Cable

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Product Specifications

- **Temperature:** Up to 500 ° F (260 ° C).
- **Available in:** Type J or type K thermocouple cable assemblies.
- **BAC 5621 compliant.**
- **Gauge:** Flat thermocouple wire, equivalent to 28-gauge, laminated between layers of rugged polyimide tape. The thickest point is less than 0.012 inch, which is four times thinner than a 28 gauge round wire thermocouple wire.
- **Grade:** Special limits.
- **Two ends:** One end is terminated with an injection molded ASTM standard pin configuration thermocouple connector; the other end is a welded thermocouple junction.
- **Cable length:** Specified by customers.

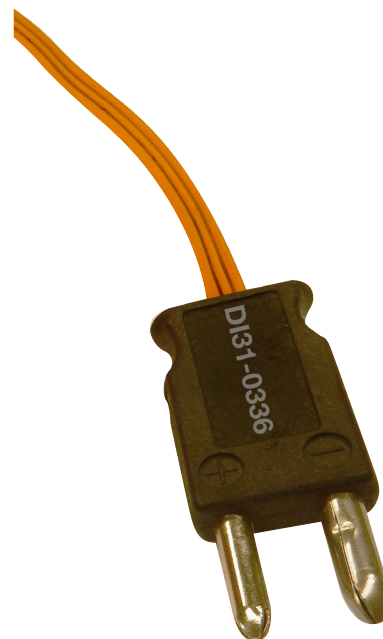
Applications

- Field repair of aircraft, automotive and other composite assemblies.
- Autoclave applications requiring a seal between vacuum bag and instrumentation. The AccuFlex™ flat, low-profile cross section makes this seal quick and easy.
- Applications where thermocouple measurements require installation through narrow spaces and openings yet require the low resistance advantage of larger gauge wire.

Traceable Records



All **AccuClave®** and **AccuClave®-X** products have a traceability code permanently etched on their connectors. To retrieve information regarding a specific product, visit www.tewire.com and click on **TRAC**, located on page headers. Enter the 8-character **TRAC** code appearing on your connector. Correction factor calibration data will appear for each temperature for which the wire was calibrated. In addition you will be able to determine the part number, product description, calibration date, production date, and the TE Wire & Cable manufacturing work order code.



TE Wire & Cable is an ISO 9001:2015 Certified company.

TE Wire & Cable's calibration laboratory is ISO/IEC 17025:2005 accredited by A2LA.

AccuClave® is a registered trademark of TE Wire & Cable, LLC.

Many TE Wire & Cable products are certified to conform to national and international standards including: ANSI MC96.1; ASTM E230/E230 M, Boeing BAC5621; GE ST2155; AMS 2750 D; MIL STD 45662A; MIL STD 105, IEC-584 and many others.

Note: Minimum order quantities may apply to custom orders.

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