



## AccuFlex™

Low profile, flat Thermocouple Cable Assemblies help make composite field repairs easy

AccuFlex™ Assemblies are innovative, low-profile, flat thermocouple cable assemblies. As a recent addition to the AccuClave® autoclave pre-assembled thermocouple series, the design was inspired by the need for very small cross-section thermocouple wire required for the field repair of composites, such as repairing damaged aircraft flight surfaces.



### Product Benefits

- Low profile makes creating a seal between vacuum bag and instrumentation quick and easy.
- Minimal mark-off – 4× thinner than equivalent 28 gauge round cable.
- Ready to use assemblies save setup time, reduce downtime.
- [TRAC System](#) provides the easiest traceability in the industry! ([View demo](#))

### Applications

- Field repair of damaged composites assemblies (aerospace, aircraft, automotive).
- Autoclave applications requiring a quick and easy seal between vacuum bag and instrumentation.
- Applications where thermocouple measurements require fitting through narrow spaces and openings yet require the low resistance advantage of larger gauge wire.

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TE Wire & Cable is an ISO 9001-2015 certified company. Many TE Wire & Cable products are certified to conform to national and international standards including – UL 13 PLTC, UL 1277 TC, UL 2250 ITC, IEEE 383 Flame test, NEC Article 725, NEC Article 336, ASTM E230/E230M, CSA C22.2 No. 239 Type CIC and many more. TE Wire & Cable's calibration laboratory is ISO/IEC 17025: 2005 accredited.

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thermocouple wire since 1941

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### **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.

### **Advantages/ Performances**

The thermocouple is commonly trimmed with the junction left in place after repair. Traditionally, such repairs used very small diameter wires—as low as 36 gauge—so that the blemish remaining after trimming was minimal and nearly unnoticeable. The small gauge wire is fragile, expensive, difficult to handle and has very high resistance. High resistance has the potential of compromising the accuracy of temperature measurement.

AccuFlex is made with flat wire of a cross-section nearly equivalent to a 28 gauge wire, yet has the same height of a 36 gauge wire (0.005") and a resistance 6 times less than 36 gauge standard thermocouple wire. After trimming, the AccuFlex leaves a nearly imperceptible mark-off impression.



## **TE Wire & Cable LLC**

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