



AccuConnect™

Multi-circuit extension cable harnesses for Autoclave Thermocouple Systems reduces setup time

AccuConnect™ Assemblies are innovative, multi-circuit thermocouple extension cable harnesses that you use to improve cable connectivity in autoclave applications. AccuConnect can be supplied as 6, 12 or 24 cables terminated with a multi-pin connector on one end with free-floating, independent male or female connections at the opposite end. The AccuConnect design provides assured accuracy and long term use.



Product Benefits

- Ready to use cable harness assemblies reduce setup time / downtime by up to 90%!
- [TRAC System](#) provides the easiest traceability in the industry! ([View demo](#))
- Available in both type J and type K thermocouple cable assemblies.

Applications

- Thermocouple cable connections can be made on composite parts typically using tool thermocouples or lead/lag thermocouples while they are prepared for the autoclave process. Once the parts are placed into the autoclave, the corresponding AccuConnect cable harness can be quickly connected to its part thermocouple significantly reducing setup time. ([Learn more](#) in this case study found in *High-Performance Composites*, March 2012.)

QuickQuote

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TE Wire & Cable is an ISO 9001-2008 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, ANSI MC 96.1, ASTM E 230, 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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*The most trusted name in
thermocouple wire since 1941*

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Specifications

- **Temperature:** Insulation and connectors rated for surveys for up to 200°C.
- **Tolerance:** $\pm 2^{\circ}\text{F}$ (1.1°C) for up to 200°C (400°F).
- **Available in:** Type: J or type K thermocouple cable assemblies.
- **BAC 5621 compliant** and ease of traceability for NADCAP audits.
- **Jacket:** Extruded FEP, optional PFA.
- **Two ends:** One has 6, 12 or 24 cables terminated with a multi-pin connector; the other free floating cable end has independent male or female plugs.
- **Pins and plugs:** Individually numbered for circuit identification.
- **Cable length:** Specified by customers.

Advantages/Performances

TE Wire and Cable assures the following performance characteristics when AccuConnect assemblies are used following [AccuConnect Handling Guidelines](#). WE STAND BY OUR PRODUCTS!

- Survey cycles: 100 cycles (or more) based on proper handling between cycles.
- Calibration: Maintain Type J and K special limit tolerance.
- Mechanical: The cable and connectors maintains adequate mechanical integrity.
- Connector break force: Typical value of 20 lb (9 kg) to pull an individual wire from the connector.

Time/Cost Saving Examples

Case Study: Thermocouple innovation shortens autoclave setup for stringers/frames. ATK Aerospace Structures (Clearfield, Utah) trials a thermocouple system from TE Wire & Cable LLC (Saddle Brook, N.J.) called AccuConnect, which cuts thermocouple setup time from 2.5 hours to 20 minutes.

[Learn More.](#)

Whitepaper: How can you save \$3,000/month per autoclave?

[Download Whitepaper.](#)



TE Wire & Cable LLC

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