

AccuClave® Series

Autoclave Thermocouple System

*Easy and convenient online traceability.
Patented AccuClave saves time and money.*

The most trusted name in thermocouple wire since 1941



Product Features

Temperatures up to 260°C/500°F

- Save labor and time during autoclave lay-up, and load and unload cycles.
- Leakproof **AccuClave Thermocouple Assemblies** (patented) are inexpensive and can be easily replaced after one or more uses.
- Rugged **AccuClave®-X Extension Cables** bridge the long runs between thermocouples and instrumentation or jack panels. They remain in place in the autoclave, and can be used time and time again.
- Savings on replacing long length thermocouples pays back the cost of the **AccuClave®-X Extension Cables** in only a few curing cycles.
- Ready to use, matched **AccuClave®** and **AccuClave®-X** assemblies assure accuracy, performance and reliability for higher autoclave yields.
- **AccuClave® Thermocouple Wire** is calibrated every 3000 feet (914 meters).
- Every **AccuClave® Thermocouple** can now be conveniently traced to its calibration data and manufacturing information. For **TRAC AccuClave Tracking**, visit traclookup.tewire.com

Product Specifications

AccuClave

- J, K and T calibration, Class 1 Special Limits
- Standard length 3 feet (0.9 meters)
- Standard construction is flame retardant extruded FEP (+200°C/+400°F continuous). Also available in PFA (+260°C/+500°F continuous).
- Conform to ASTM E230/E230 M, IEC 584, ANSI MC 96.1 and BAC 5621
- Traceability code (TRAC) permanently laser etched on connector

AccuClave-X

- J, K and T calibration, Class 1 Special Limits
- Available in standard lengths of 10, 20, & 30 feet (3.0, 6.1, & 9.1 meters)
- Rugged construction of stranded wire (for flexibility), braided fiberglass jacket, and clear fluoropolymer FEP or PFA outer jacket
- Male-to-female (standard) or male-to-male and female-to-female (available)
- Conform to ASTM E230/E230 M, IEC 584, ANSI MC 96.1 and BAC 5621
- Traceability code (TRAC) permanently laser etched on connector

Applications

- Autoclaves
- Composites

AccuClave® Thermocouple Assembly



AccuClave-X® Extension Cable



888-4TE-WIRE
201-845-9400 intl.



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www.teewire.com



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TE Wire & Cable

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888-4TE-WIRE toll free
(888-483-9473) toll free
201-845-9400 international

AccuClave® Jacket	Gauge	Calibration	Standard Lengths
FEP (TE/D) or PFA (HTE/D)	24 AWG	J, K & T Class I / Special Limits	0.9m (3 feet), 4.6m (15 feet), 9.1m (30 feet)
FEP (TE/D) or PFA (HTE/D)	28 AWG	J, K & T Class I / Special Limits	0.9m (3 feet), 4.6m (15 feet), 9.1m (30 feet)

AccuClave® Series Standard Products

AccuClave®-X Extension Cable products are available in lengths of 10, 20 and 30 feet. Standard products lists are available from TE Wire & Cable, your TE Wire & Cable representative, or check our web site www.tewire.com. Many **AccuClave®** standard products are available for immediate shipment from stock.

About TE Wire & Cable's AccuClave® and AccuClave®-X System

TE Wire's AccuClave Series performance matched thermocouple system is designed to save you time and money, and at the same time provide accuracy, dependability, reliability, compliance, and traceability.

AccuClave Series products are used extensively in autoclaves for the aircraft composite industry and in critical applications where all these factors are essential.

AccuClave® Thermocouple Assemblies feature a connector plug molded on to a single extrusion FEP or PFA thermocouple wire with an exposed, twisted and welded junction on the opposite end. TE Wire & Cable's patented technology eliminates leaks, loose connections and reverse polarity.

AccuClave®-X Autoclave Extension Cable Assemblies provide a major advantage when used in autoclave and other applications where long runs and multiple thermocouples are required. This rugged cable, with heavy duty mechanical connectors on both ends, spans the wire run between instrumentation systems and thermocouples. When required, the thermocouple can be unplugged, thrown away and replaced - no need to replace the **AccuClave®-X** Extension Cable. In doing so you spend less time, less in materials, and have less down time.

AccuClave®-X Extension Cables used with **AccuClave® Thermocouple Assemblies** guarantee accuracy and reliability in autoclave and other applications.

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.

Note: Minimum order quantities may apply to custom orders.

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.

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.

AccuClave® Technical Information

Initial calibration tolerances per ANSI MC96.1 / ASTM E230

TC Wire	Grade Designation	Grade Limits*
J	JJ (Class I)	±1.1°C (2.0°F) or ±0.4%
K	KK (Class I)	±1.1°C (2.0°F) or ±0.4%
T	TT (Class I)	±0.5°C (0.9°F) or ±0.4%

* whichever is greater

Nominal Wire Dimensions

Conductor Size		Insulation		Outer Diameter	
AWG	MM	In.	MM	Inches	MM
24	0.51	0.10	.25	.040 x .080	1.0 x 2.0
28	0.32	0.10	.25	.032 x .066	.81 x 1.7

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