



# AccuClave® Series Autoclave Thermocouple System

NEW! Easy & convenient online traceability - calibration & manufacturing information

## 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** (patent pending) 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. Simply log on to [www.tewire.com](http://www.tewire.com) and click **TRAC**. See complete information on the back of this page.



**AccuClave®**  
Thermocouple Assembly



**AccuClave®-X**  
Extension Cable

### Applications

- Autoclaves
- Composites

### Available Options

- J or K calibration, Class 1 Special Limits
- Custom constructions available

### Product Specifications

#### AccuClave®

- 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)
- Conforms to ASTM E230, IEC 584, ANSI MC96.1 and BAC 5621
- Traceability code (**TRAC**) permanently laser etched on connector

#### AccuClave®-X

- 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 PFA outer jacket
- Available configurations - male to female, male to male, female to female
- Conforms to ASTM E230, IEC 584, ANSI MC 96.1 and BAC 5621
- Traceability code (**TRAC**) permanently laser etched on connector

## TE Wire & Cable

The most trusted name in thermocouple wire since 1941

888-4TE-WIRE (888-483-9473)

International 201-845-9400

Fax 201-291-1190 Fax

[www.tewire.com](http://www.tewire.com)



A Marmon Wire & Cable/Berkshire Hathaway Company

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## AccuClave® Series Standard Products

AccuClave® Jacket	Gauge	Calibration	Standard Lengths
FEP (TE/D) or PFA (HTE/D)	24 AWG	J & K Class 1/Special limits	0.9 m (3 feet), 4.6 m (15 feet), 9.1 m (30feet)
FEP (TE/D) or PFA (HTE/D)	28 AWG	J & K Class 1/Special limits	0.9 m (3 feet), 4.6 m (15 feet), 9.1 m (30feet)

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](http://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 & Cable'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. They are available in J or K Class 1/Special Limits. BAC 5621 compliant.

The AccuClave® Series provides a major advantage when used in autoclaves and other applications where long thermocouple runs and multiple thermocouples are required. The rugged AccuClave®-X Extension Cable spans the wire runs between instrumentation systems and AccuClave® thermocouples. When required the short, inexpensive AccuClave® thermocouple can simply be unplugged and replaced with a new AccuClave® thermocouple - no need to replace the AccuClave®-X Extension Cable. In doing so you spend less time, less in materials, and have less down time.

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

The AccuClave® thermocouple assembly is patent pending.

## Introducing **TRAC** - Traceable Records of AccuClave Calibration - an exclusive TE Wire & Cable feature

Now all AccuClave® and AccuClave®-X products have a traceability code permanently laser etched on their connectors. To retrieve information regarding a specific product, log on to [www.tewire.com](http://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 1)	± 1.1°C(2.0°F) or ± 0.4%
K	KK (Class 1)	± 1.1°C(2.0°F) or ± 0.4%

\*whichever is greater

### Nominal Wire Dimensions

Conductor Size		Insulation		Outer Diameter	
AWG	MM	inches	MM	inches	MM
24	0.51	.010	.25	.040 x .080	1.0 x 2.0
28	0.32	.010	.25	.032 x .066	.81 x 1.7

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 - ANSI MC96.1; ASTM E230; Boeing BAC5621; GE ST2155; AMS 2750D; NIST; MIL STD 45662A; MIL STD 105, IEC-584 & many others. TE Wire & Cable's calibration laboratory is ISO/IEC 17025:2005 accredited by A2LA. AccuClave® is a registered trade mark of TE Wire & Cable.

**Note:** Minimum order quantities may apply to custom orders.



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thermocouple wire since 1941

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