



**OPERATIONAL PROCEDURE**

**CTL-OP 109**

**Laboratory Procedure  
For Acceptance of Thermocouple Wire**

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## **Laboratory Procedure For Acceptance of Thermocouple Wire**

### **1. PURPOSE**

This Laboratory Procedure establishes procedures for acceptance of thermocouple wire.

### **2. SCOPE**

This procedure applies to acceptance of thermocouple wire used for temperature measurement in conjunction with testing of electrical and similar products.

### **3. RESPONSIBILITY**

Laboratories must ensure that the thermocouple wire purchased is of acceptable accuracy. Laboratory personnel assigned to acceptance of shipments of thermocouple wire are responsible to follow this procedure.

The type of thermocouples utilized must be used within the manufactured specified operating parameters for that type of thermocouple.

Note: Typically, Types J, K and T tolerance class 1 thermocouples are used for CB Scheme testing.

### **4. PROCEDURES:**

4.1 When ordering thermocouple wire, the thermocouple class or special limits requirements shall be specified when placing the purchase order.

4.2 The supplier of the wire shall be required to provide a certificate of compliance with the specification. The certificate of compliance shall include the results of the pre-shipment testing used to establish conformance. As a minimum, the testing shall include one thermocouple taken from the reel of thermocouple wire.

4.3 Alternative 1 - the laboratory may perform testing on incoming thermocouple wire shipments.



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4.4 Alternative 2 - the laboratory may perform testing on individual thermocouples.

4.5 Compliance shall be based on measurements traceable to the International System of Units (SI).

4.6 Certificates of compliance and results of testing shall be retained as part of the laboratory records.

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