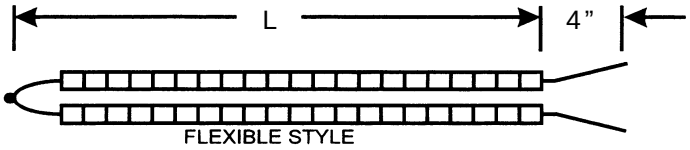
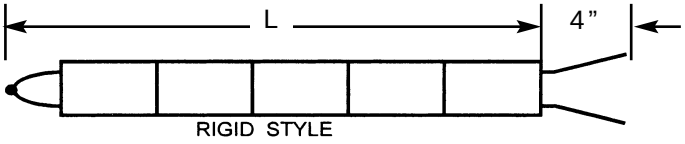
Specialty

Bore Wire Thermocouple with Ceramic Insulators

ALF



ALR



*Bead Dia. = Specify I.D. of Protection Tube



Thermocouple Elements Product Specifications & Options

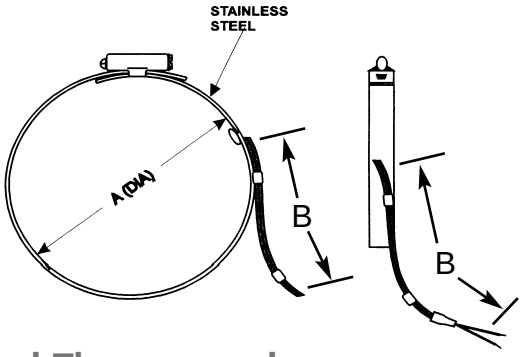
To order: For each item required, specify the **product** name along with appropriate **codes** or **measurements** from each of the columns below.

Product	Sensor	Gauge (AWG)	Probe Length	Connection	*Bead Dia. (in.)	Special
ALF **ALR**	1. **J** 2. **K** 3. **T** 4. **R** 5. **S**	**8"** **14"** **20"** SP - **Special**	L=**Specify (in.)**	**B**-Butt **T**-Twist	* See note above	**D**-Duplex

Toll Free: (800) 567-8686 Tel: 905 477-2133 Fax: (905) 477-4219 Website: www.alphacontrols.com

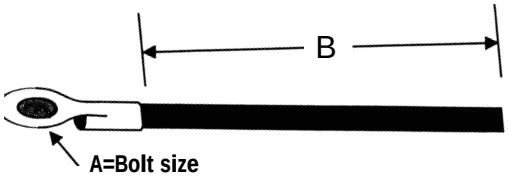
Pipe Clamp Thermocouples

A600



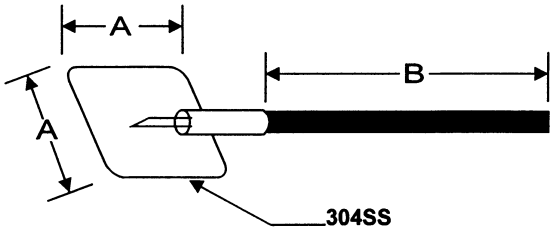
Ring Terminal Thermocouples

A700



Weld Pad Thermocouples

A800



Thermocouple Product Specifications & Options

To order: For each item required, specify the **product** name along with appropriate **codes** or **measurements** from each of the columns below.

Product	Type	Pipe Clamp Diameter (A)	Lead Length (B)	Termination	Leads	Options
A600	1. **J** 2. **K** 3. **T** 4. **RTD**	Specify (in.)	Specify (in.)	**1**-Strip Leads **2**-Spade lugs **3**-Standard plug **4**-Standard jack **5**-Mini plug **6**-Mini jack	**F**-Fiberglass **S**-Fiberglass stranded **FB**-Fiberglass Stainless overbraid **H**-Stainless armor **P**-PVC solid **PS**-PVC stranded **T**-Teflon solid **TT**-Teflon stranded	**U**-Ungrounded **C**-NIST certified **SP**-Special
Product	**Type**	**"A" (Bolt Size)**	**Lead Length**	**Termination**	**Leads**	**Options**
A700	1. **J** 2. **K** 3. **T**	**#8** **#10** **1/4"**	B=Specify (in.)	**1**-Strip Leads **2**-Spade lugs **3**-Standard plug **4**-Standard jack **5**-Mini plug **6**-Mini jack	**F**-Fiberglass **S**-Fiberglass stranded **FB**-Fiberglass Stainless overbraid **H**-Stainless armor **P**-PVC solid **PS**-PVC stranded **T**-Teflon solid **TT**-Teflon stranded	**U**-Ungrounded **C**-NIST certified **SP**-Special
Product	**Type**	**Weld Pad Size A x A**	**Lead Length**	**Termination**	**Leads**	**Options**
A800	1. **J** 2. **K** 3. **T**	**1"** **1 1/2"** **SP**-Special	B=Specify (in.)	**1**-Strip Leads **2**-Spade lugs **3**-Standard plug **4**-Standard jack **5**-Mini plug **6**-Mini jack	**F**-Fiberglass **S**-Fiberglass stranded **FB**-Fiberglass Stainless overbraid **5**-Mini jack **P**-PVC solid **PS**-PVC stranded **T**-Teflon solid **TT**-Teflon stranded	**U**-Ungrounded **C**-NIST certified **SP**-Special (i.e. curved to pipe dia.)

Toll Free: (800) 567-8686 Tel: 905 477-2133 Fax: (905) 477-4219 Website: www.alphacontrols.com

Averaging RTD



Used to detect "average" temperatures in systems where point measurements are inadequate.

1 PRODUCT TYPE

R 7	• 200°C (392°F) Max. • Stainless Steel Case

2 CASE DIAMETER

1	• 0.188"
2	• 0.250"

3 CASE FITTING

0	• None
1	• 1/2" x 1/2" NPT
2	• 1/2" NPT
3	• 3/4" NPT

4 NUMBER OF LEADWIRES

2	• 2 Leadwires
3	• 3 Leadwires
4	• 4 Leadwires

5 ELEMENT TYPE

R 7	• Platinum (Characterized) • 100.0 Ω+/-0.5% at 0°C • 0.00385 Ω/Ω/°C • Element length = Case Length

6 CASE LENGTH

• Specify Case length in inches
• Example: 10' 6" = 126

7 LEADWIRE LENGTH

• Specify Leadwire length in inches
• Example: 36.0" = 036

PRODUCT NUMBER

R 7					—				—			
1	2	3	4	5		6				7		

Surface Mount RTD



To measure and/or control temperature changes on the surfaces of solids.

1 PRODUCT TYPE

R 4	• Surface mount RTD

2 BODY MATERIAL

1 0	• Silicone Rubber • 232°C (450°F) Max. • 0.050" thick; 0.080" over leads
2 0	• Polymide Film • 260°C (500°F) Max. • 0.025" thick; 0.050" over leads
3 0	• Polymide Ribbon • 260°C (500°F) Max. • 0.008" thick; 0.050" over leads

3 NUMBER OF LEAD WIRES

2	• 2 Leadwires
3	• 3 Leadwires
4	• 4 Leadwires

4 ELEMENT TYPE

P C	• Platinum • 100.0 Ω+/-0.5% at 0°C • 0.00385 Ω/Ω/°C

5 ELEMENT TYPE (CONT.)

P F	• Platinum • 100.0Ω +/-0.5% at 0°C • 0.00391 Ω/Ω/ °C
C B	• Copper • 10.0 Ω+/-0.5% at 25°C • 0.00427 Ω/Ω/ °C
N A	• Nickel • 120.0 Ω+/-0.5% at 0°C • 0.00672 Ω/Ω/ °C

5 BODY LENGTH

• Specify Body length in inches x 100
• Example: 2.0" = 0200

6 BODY WIDTH

• Specify Body width in inches x 1000
• Example: 0.345" = 0345

7 LEADWIRE LENGTH

• Specify Leadwire length in inches
• Example: 36.0" = 036

PRODUCT NUMBER

R 4				—				—				—			
1	2	3	4		5				6				7		

Stator Winding RTD



To detect temperatures in the windings, airstreams, and gasstreams of motors, generators, and auxiliary equipment.

1 PRODUCT TYPE

R 1	• Class F • 155°C (311°F) Max. • Epoxy Glass • 3000 Volts Dielectric
R 5	• Class H • 180°C (356°F) Max. • Polymide • 2000 Volts Dielectric

2 BODY THICKNESS

1 0	• 0.030"
2 0	• 0.050"
3 0	• 0.078"

3 NUMBER OF LEAD WIRES

2	• 2 Leadwires
3	• 3 Leadwires
4	• 4 Leadwires

4 ELEMENT TYPE

P C	• Platinum • 100.0 Ω+/-0.5% at 0°C • 0.00385 Ω/Ω/°C
P F	• Platinum • 100.0Ω +/-0.5% at 0°C • 0.00391 Ω/Ω/ °C
C B	• Copper • 10.0 Ω+/-0.5% at 25°C • 0.00427 Ω/Ω/ °C
N A	• Nickel • 120.0 Ω+/-0.5% at 0°C • 0.00672 Ω/Ω/ °C

5 BODY LENGTH

• Specify Body length in inches x 100
• Example: 12.0" = 1200

6 BODY WIDTH

• Specify Body width in inches x 1000
• Example: 0.345" = 0345

7 LEADWIRE LENGTH

• Specify Leadwire length in inches
• Example: 36.0" = 036

PRODUCT NUMBER

R					—				—				—			
1	2		3	4		5				6				7		

Toll Free: (800) 567-8686 Tel: 905 477-2133 Fax: (905) 477-4219 Website: www.alphacontrols.com