

Matching Metal Alloy Construction Ensures Consistent Temperature



Many varieties of thermocouple connectors are available from Watlow®. Watlow's broad offering includes benefits such as high impact strength, fast installation and high temperature capabilities.

Listed below are the various connectors and systems from which to choose:

- Standard thermocouple connectors
- Quick-attach thermocouple connectors
- High temperature connectors
- Three-pole connectors for RTD applications
- Miniature thermocouple connectors

Watlow's standard line of connectors are lightweight, rugged and accurate and feature a clamping mechanism that is unique in the industry.

This easy-to-use clamping connection will replace traditional screw and wire wrap. This device allows a straight-in application, which squeezes the wire and forms a tight connection assuring a clean, strong signal.

Features and Benefits

ASTM color coded

- Ensures easy identification

Compensated alloys

- Provides accuracy in readings

Glass-filled thermoplastic

- Provides high impact strength

Captive cap screws

- Ensures a secure connection

Connection hardware

- Eliminates several components

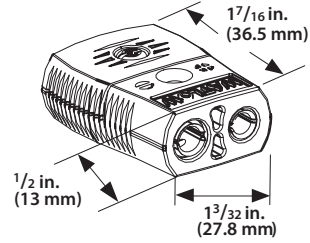
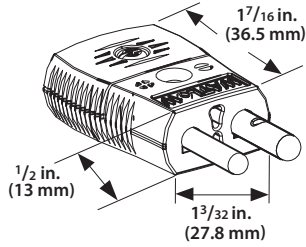
Meets requirements for ASTM E1129

- Ensures adequate pin spacing, dimensions and contact resistance

Rated to 425°F (215°C)

- Fits high-temperature applications

"S" SERIES Standard Connectors 425°F (215°C)



Ordering Information

Part Number

| ① ② | ③ | ④ | ⑤ | ⑥ ⑦ |
|-----|-------|-------------|------------|------------|
| | Style | Calibration | Name Plate | Color Code |
| SC | | | | |

| ③ | Style |
|-----|---------------|
| M = | Male (plug) |
| F = | Female (jack) |

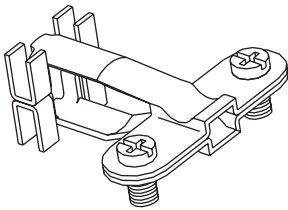
| ④ | Calibration |
|-----|-----------------|
| E = | Type E |
| J = | Type J |
| K = | Type K |
| S = | Type S / Type R |
| T = | Type T |
| U = | Uncompensated |

| ⑤ | Name Plate |
|-----|---|
| W = | With Watlow name |
| N = | Without name label (For J and K calibration only) |

| ⑥ ⑦ | Color Code |
|------|-----------------------|
| AT = | ASTM E 230 color code |

Cable Clamp Style for Male or Female

Part Number: SAC-220

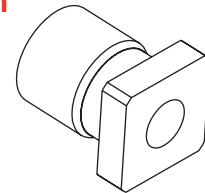


Crimp/Brass Style

Ordering Information

Part Number

| ① ② ③ | ④ ⑤ ⑥ |
|-------|-------|
| | Style |
| SAB | |



| ④ ⑤ ⑥ | Calibration |
|-------|-------------|
| 040 = | 0.040 in. |
| 063 = | 0.063 in. |
| 090 = | 0.090 in. |
| 125 = | 0.125 in. |
| 188 = | 0.188 in. |
| 250 = | 0.250 in. |
| 30M = | 3.0 mm |
| 60M = | 6.0 mm |

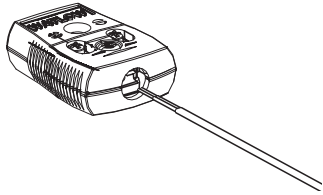
Quick Attach Thermocouple Connectors, 425°F (215°C)

Watlow's time-saving thermocouple connectors are quick and convenient to use because there are no loose parts and there is no need to remove caps or wrap wires around terminal screws. Stripped wire ends are simply inserted into a plug or jack then tightened with two terminal screws.

Thermocouple connectors accept solid or stranded wires up to 16 gauge, are available in Type J, K and T calibrations and are ASTM E 230 color-coded. The connector is made with high-impact strength, 425°F (215°C) rated glass filled thermoplastic with matching thermocouple materials. Other features and specifications are identical to standard Watlow "S" SERIES quick-disconnect connectors.

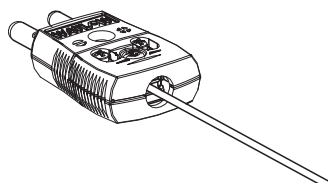
Step 1

Simply insert stripped wires into connector



Step 2

Tighten two terminal screws



Ordering Information

Part Number

| | | | | | |
|-----------|--------------|--------------------|-------------------|-------------------|-----------------|
| ① ② | ③ | ④ | ⑤ | ⑥ ⑦ | ⑧ ⑨ ⑩ ⑪ |
| SK | Style | Calibration | Name Plate | Color Code | Assembly |
| | | | W | AT | ASSY |

| ③ Style | |
|---------|---------------|
| M = | Male (plug) |
| F = | Female (jack) |

| ④ Calibration | |
|---------------|--------|
| J = | Type J |
| K = | Type K |
| T = | Type T |

| ⑤ Name Plate | |
|--------------|------------------|
| W = | With Watlow name |

| ⑥ ⑦ Color Code | |
|----------------|-----------------------|
| AT = | ASTM E 230 color code |

| ⑧ ⑨ ⑩ ⑪ Assembly | |
|------------------|---------------------------------|
| ASSY = | Comes with cap assembly on body |

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