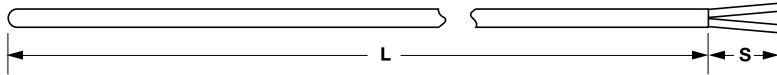# Thermocouples

## Mineral Insulated

### Cut and Stripped
### Style AB



Watlow's Style AB thermocouple allows self termination of the thermocouple. Style AB is simply a section of XACTPAK material, junctioned and stripped and is the most basic of all the mineral insulated thermocouple styles.

Its XACTPAK mineral insulation construction protects the thermocouple from moisture, thermal shock, high temperatures and high pressure.

## Performance Capabilities
- Maximum temperature depends on sheath material, calibration and other variables

## Features and Benefits
### Cold end stripped and sealed with epoxy
- Inhibits moisture penetration

### Dual element style
- Allows two instruments to run from the same element, reducing costs

## Ordering Information

### Part Number

| ① | ② | ③ Sheath O.D. | ④ Special Options | ⑤ Fittings, Weld Pads | ⑥ | ⑦ Sheath Material | ⑧ ⑨ Sheath Length "L" (whole in.) | ⑩ Sheath Length "L" (fract. in.) | ⑪ Junction | ⑫ Calibration | ⑬ Strip Length "S" (whole in.) | ⑭ Strip Length "S" (fract. in.) | ⑮ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | B | | | | 0 | | | | | | | | 0 |

| ③ Sheath O.D. (in.) | |
|---|---|
| B = | 0.020 |
| C = | 0.032 |
| D = | 0.040 |
| E = | 0.063 |
| G = | 0.125 |
| H = | 0.188 |
| J = | 0.250 |

| ④ Special Options | |
|---|---|
| 0 = | No spring loaded and extension leads |
| 1 = | Extension leads only |
| 2 = | Spring loading hardware with extension leads |

| ⑤ Fittings, Weld Pads | |
|---|---|
| 0 = | None |

**Notes:** If required, enter code from pages 54 to 55. If none, enter "0". Weld pads only available for 0.063 in. diameter and larger.

| ⑦ Sheath Material | |
|---|---|
| A = | 304/304L SS |
| C = | 304/304L SS with Teflon® encapsulation |
| E = | 316/316L SS with Teflon® encapsulation |
| F = | 316/316L SS |
| Q = | Alloy 600 (Type K) |

| ⑧ ⑨ Sheath Length "L" (whole in.) |
|---|
| Available lengths: 01 to 99, for lengths over 99 inches contact factory |

| ⑩ Sheath Length (fractional in.) | |
|---|---|
| 0 = | 0 |
| 4 = | $^1/_2$ |

| ⑪ Junction | | | |
|---|---|---|---|
| | Grounded | Ungrounded | Exposed |
| Single | G | U | E |
| Dual* | H | W (isolated) | D (isolated) |

*Only available for 0.063 diameter in alloy 600.

| ⑫ Calibration | | | | |
|---|---|---|---|---|
| | E | J | K | T |
| Standard limits | E | J | K | T |
| Special limits | 2 | 3 | 4 | 8 |

| ⑬ Strip Length "S" (whole in.) |
|---|
| 0, 1, 2 and 3 - 1 in. max. on 0.040 and smaller |

| ⑭ Strip Length "S" (fractional in.) | |
|---|---|
| 0 = | 0 |
| 1 = | $^1/_8$ |
| 2 = | $^1/_4$ |
| 3 = | $^3/_8$ |
| 4 = | $^1/_2$ |
| 5 = | $^5/_8$ |
| 6 = | $^3/_4$ |
| 7 = | $^7/_8$ |

**WATLOW**