



MEAS SILICONE RUBBER SURFACE THERMOCOUPLE

- Fast Response
- Surface Sensing
- Noninvasive, Simple Installation
- Flat, Flexible
- Custom Dimensions

The Silicone Rubber Surface Thermocouple is a flat, flexible, rectangular sensor with a sensing element laminated in silicone rubber. They are used to monitor or measure temperature on round or uneven surfaces. For motor and generator applications, they are commonly used in the end turns of the windings. TE utilizes four standard thermocouple types; J, K, T and E. TE has many sizes available from stock or we can customize to meet your specifications.

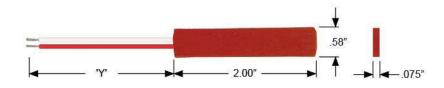
Features

- Temperature Range:
 » -50° to 220°C (-58° to 428°F)
- Thermocouple Type:
- » J, K, T, E
- Optional Adhesive Backing
- Leadwire Options

Applications

- ▲ Electric Motors
- Generators
- HVACR
- Aerospace

Dimensions



'Y' = Leadwire/Cable Length

Performance Specifications

Time Constant:

1.0 second maximum for 63.2% response to change in temperature per ASTM E644

Dielectric Strength:

1,000 Volts RMS at 60 Hz, for one minute, element to outer surfaces, with 1 mA leakage current

Application Temperature Range: -50 to 220°C (-58 to 428°F)

Thermocouple Types: Type J [Constantan/Iron]

Type K Type E Type T [Alumel/Chromel] [Constantan/Copper] [Constantan/Chromel]

Leadwires:

Single Junction: 24 AWG PTFE Insulated, Solid Conductor

Ordering Information

| Silicone Rubber Surface Thermocouple | | | | |
|--------------------------------------|--|--------------------------------------|---|--|
| Model | Temperature Range | | | |
| 420M | Moderate Temperature Range: -50° to 220°C (-58° to 428°F) | | | |
| Model | Thermocouple Type | Junction | Color Code | |
| J K T E | J K T E | Single Single Single Single | Red/White Red/Yellow Red/Blue Red/Purple | [Constantan/Iron] [Alumel/Chromel] [Constantan/Copper] [Constantan/Chromel] |
| Model | Junction Style | | | |
| G U | Grounded Junction (Separate Ground Wire Welded with Junction) Ungrounded Junction | | | |
| Model | Limits of Error | | | |
| A B | Standard Limits of Error Special Limits of Error | | | |
| Model | 'Y' Leadwire Length | | | |
| | Define 'Y' Length in Whole Inches. (120 = 120.0"; 036 = 36.0") | | | |
| Model | 'Y' Leadwire Options | | | |
| N W | No Options, Solid PTFE Leadwires Leadwire Options | | | |
| Model | Leadwire Material | | | |
| А | PTFE | | | |
| Model | Mounting Options | | | |
| 1 2 | Standard, No Adhesive Backing Adhesive Backing | | | |



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