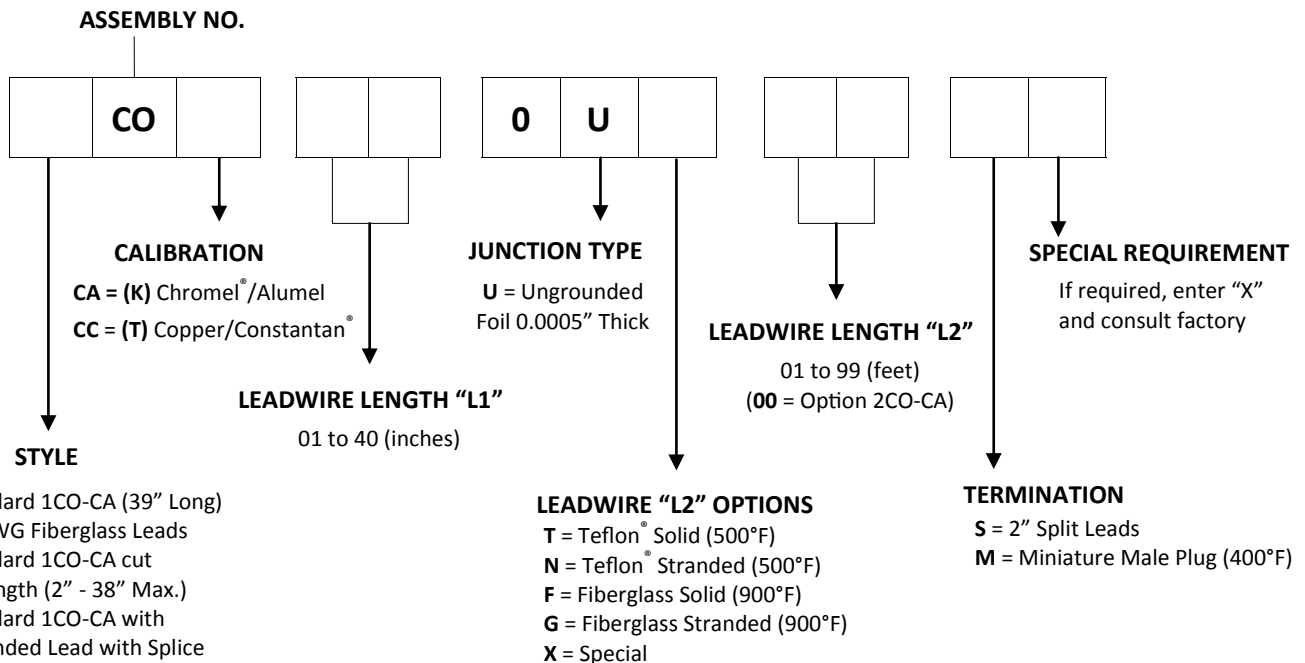
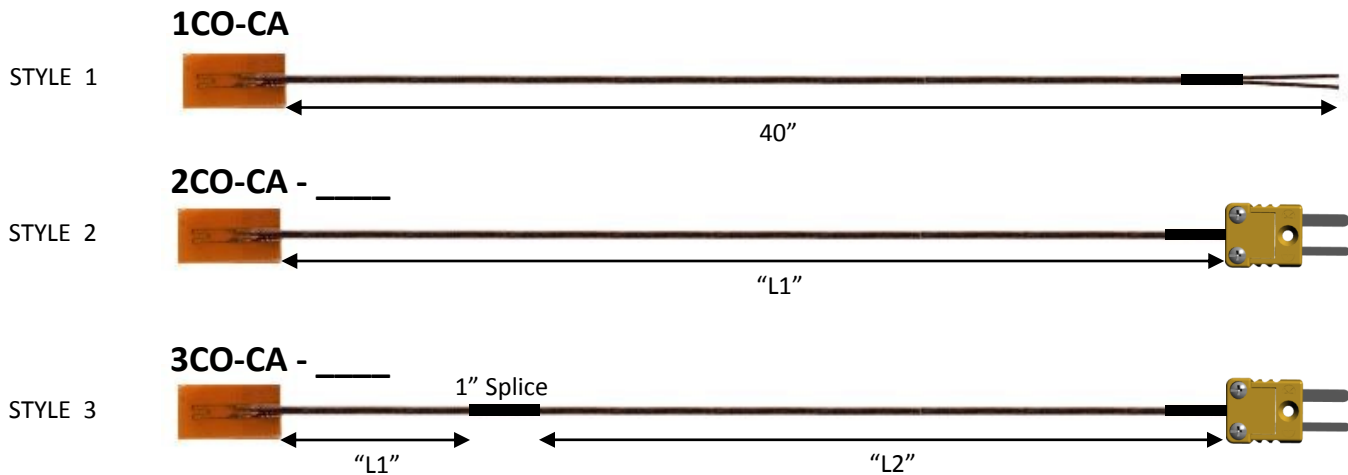


CEMENT-ON THERMOCOUPLES

1CO-CA STYLE

- IDEAL FOR FLAT OR CURVED SURFACES
- USED ON HOT BAR SEALERS & BAND SEALERS
- FAST RESPONSE TIME
- LOW THERMAL MASS



1CO-CA Cement-On Foil Thermocouple

Designed for very quick response and easy installation with conventional thermal or chemical adhesives such as phenolic, epoxies, acrylics, or pressure sensitive adhesives. They feature rugged fiberglass insulated lead wires. Select an adhesive to suit the maximum expected operation temperature. Solvent release adhesives are not recommended. Epoxy adhesives, especially those suitable for use at 500°F, are generally most satisfactory. Constructed with 30 AWG fiberglass insulated leads. These versatile thermocouples can be used for a wide variety of surface temperature measurements including flat or curved surfaces. Type "K" typically in stock. Consult factory on other available calibration types.

CEMENT-ON THERMOCOUPLES

1CO-CA STYLE

The 1COCA Cement-On Thermocouple is ideal for good thermal contact and fast response. The junction provides for a extremely low thermal inertia plus maximum thermal coupling to the mounting surface. Thermocouple grade materials are used throughout the foil and leads for accuracy. Errors caused by thermal conduction between junction and leads are negligible, since the length to thickness ratio of the foil junction portion ranges from 500:1 to 2000:1.

The butt bonded junction produces thermocouples with no increase in thickness or mass at the junction. Location of the junction is definite and concise, essentially a short line, not spread out. The butt bonded foil is an intimate thermal layer at the sensing surface. The ultra thin foil sensor is embedded in a paper-thin laminate of glass-reinforced, high-temperature polymer and are intended for ungrounded surface application by adhesive bonding. They are also available with PSA Silicon peel away adhesive for easy installation. Thin and flexible, they can be bonded to flat or curved surfaces.

The polymer used in the laminate has been selected for maximum heat resistance and electrical properties. Glass-reinforced polyimide polymer and Kapton® polyimide film outer layers make it possible to obtain a life of many thousands of hours at 500°F, hundreds of hours at 600°F, tens of hours at 700°F, and short time excursions to 800°F.

The 1COCA Cement-On Thermocouples are designed for easy installation with conventional reactive or pressure-sensitive adhesives. Select adhesive to suit the maximum expected operating temperature. Avoid solvent release adhesives that may not produce a void free bond. Epoxy adhesives, especially those suitable for continuous use at 500°F, are generally satisfactory. This design features 30 AWG fiberglass insulated lead wires suitable for the maximum use temperatures.

Lamination Size	0.37" x 0.75" nominal
Foil Thickness	0.0005" nominal
Lead Dimensions	#30 AWG (0.010" dia.) Fiberglass Insulated Fiberglass Over-braid
Temperature Range*	-320 to +500°F: Continuous +600°F: 600 Hours +700°F: 10 Hours

*The high temperature limit varies with environmental conditions and lifetime requirements.