

# The "All-in-One" Surface Thermocouple Fiberglass-Insulated Thermocouple Wire Leads



**High or Low Temperatures!**

**Self-Adhesive or Cement-On!**

**Super-Fast Response All the Time!**

**SA1XL  
5-Pack**

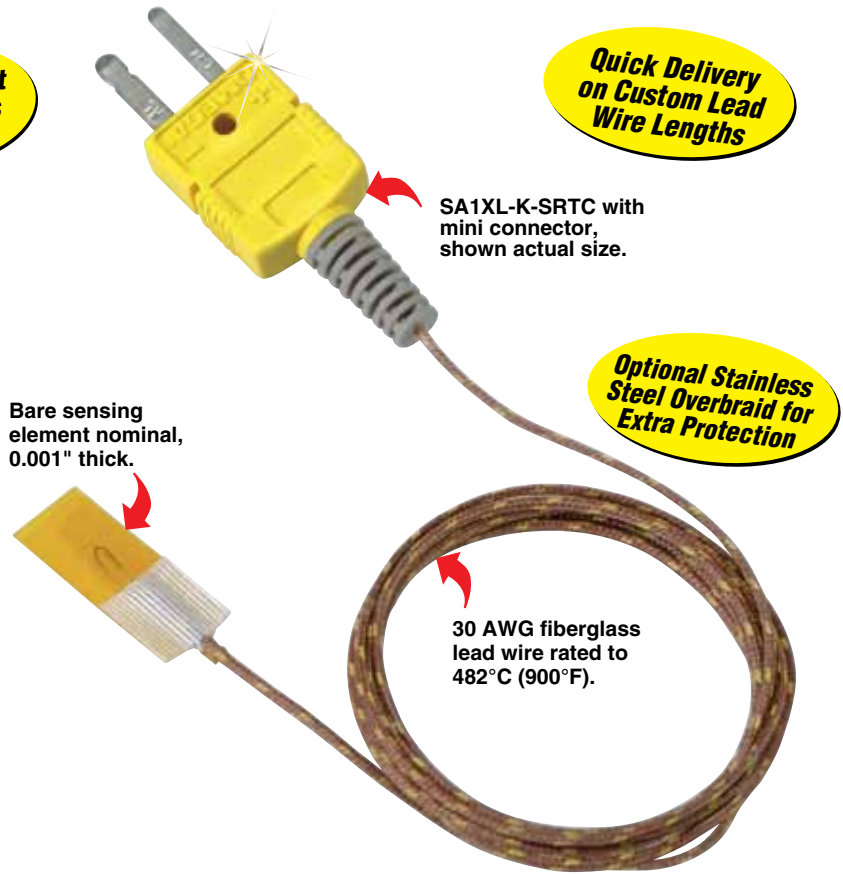
**MEETS OR EXCEEDS  
SPECIAL LIMITS  
OF ERROR (SLE)  
And EN 60584-2:  
Tolerance Class 1**

**Convenient  
Packages  
of 5**

**Quick Delivery  
on Custom Lead  
Wire Lengths**

- ✓ Stocked in 1, 2, and 3 m (40, 80, and 120") Lengths
- ✓ Custom Lead Lengths Available
- ✓ Available in J, K, T, and E Calibrations
- ✓ Stripped Leads Standard (Molded Miniature Connector with Integral Strain Relief Optional)
- ✓ Easy-to-Install Silicone-Based, Self-Adhesive Backing [Rated to 260°C (500°F)]
- ✓ Sensor Rated to 315°C (600°F) When Used as a "Cement-On" (OMEGABOND® Air Set Cements Available—Place Sensor and Encapsulate with OMEGABOND® Air Set Cement)

OMEGA introduces the next generation of our surface-mount fast-response thermocouples. The SA1XL thermocouple achieves response times of less than



0.15 seconds. This thermocouple is constructed using a Polyimide/fiberglass-junction insulation along with a fiberglass-insulated lead wire. The SA1XL can be used as a self-adhering thermocouple for temperatures up to 260°C (500°F) or it can be cemented in place for use at temperatures up to 315°C (600°F).

## Specifications

### Dimensions:

**Patch Length:** 25.4 mm (1.0")

**Patch Width:** 9.5 mm (0.375")

**Strip Length:** 25.4 mm (1.0") with 12.7 mm (0.5") bare wire

**AVAILABLE FROM STOCK IN CONVENIENT 5-PACKS!**

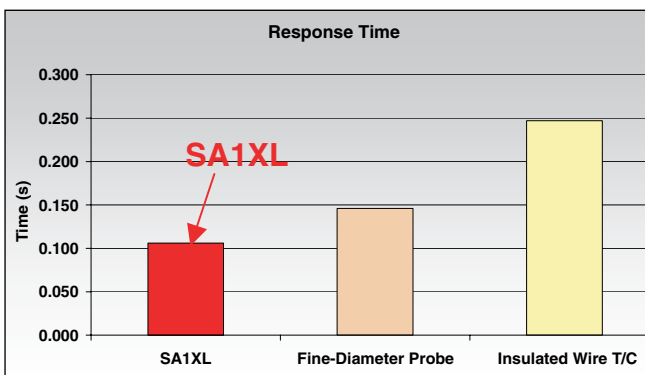




OMEGABOND®, see accessory chart or visit [omega.com](http://omega.com) for additional information.



The self-adhesive mounting strip is ideal for “targeted” placement of the sensor element. Once the element is in place, it can be used “as is”, for applications such as electronic component temperature monitoring during board fabrication. It can also be cemented in place using OMEGABOND® for higher temperatures.



Tests show that the SA1XL temperature sensor is significantly faster than a typical insulated 30 AWG thermocouple or fine-diameter, metal-sheathed probe.

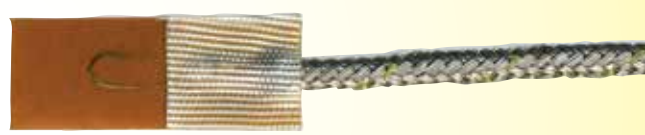
**Accessories**

Model No.	Description
OB-100-16	OMEGABOND® 100 1 lb kit, fast-setting, 2-part epoxy (sets in 8 to 12 min.)
OB-200-16	OMEGABOND® 200 1 lb kit, high temperature, 2-part epoxy
OB-400	OMEGABOND® 400 powder, 8 fluid oz (one part cement; just mix with water)
OB-700	OMEGABOND® 700 powder, 8 fluid oz (one part cement; just mix with water)

Visit [omega.com](http://omega.com) for additional OMEGABOND® products.

**Available with Stainless Steel Overbraid!**

For applications requiring more durable lead wire, OMEGA's SA1XL surface thermocouples are available with Stainless Steel overbraid. Add suffix “-SB” to the model number (5-pack) for lengths greater than 1 m (36”). Visit [omega.com](http://omega.com) for pricing.



Ordering Example: SA1XL-K-72-SB.

**To Order**

Model No.	Description
SA1XL-(*)(**)	5-pack, self-adhesive thermocouple, 1 m (40”), stripped ends
SA1XL-(*)-72(**)	5-pack, self-adhesive thermocouple, 2 m (80”), stripped ends
SA1XL-(*)-120(**)	5-pack, self-adhesive thermocouple, 3 m (120”), stripped ends
SA1XL-(*)-SRTC(**)	5-pack, self-adhesive thermocouple, 1 m (40”), molded SMP male
SA1XL-(*)-72-SRTC15(**)	5-pack, self-adhesive thermocouple, 2 m (80”), molded SMP male
SA1XL-(*)-120-SRTC(**)	5-pack, self-adhesive thermocouple, 3 m (120”), molded SMP male

\* Insert calibration K, J, T or E. \*\* Insert “-SB” for stainless steel overbraid, for additional price.  
 For a male straight M8 plug add “M8-S-M” to the model number, for a male straight M12 plug add “M12-S-M” to the model number.  
 For a male right-angled M8 plug add “M8-R-M” to the model number, for a male right-angled M12 plug add “M12-S-M” to the model number.  
**Ordering Examples:** SA1XL-K-72-SRTC, 5-pack Type K, super-fast, self-adhesive thermocouple, 2 m (80”) fiberglass-insulated leads, with a molded-on miniature connector with strain relief, and OB-400 high-temperature air set cement, 8 fluid oz.  
 SA1XL-K-72-SRTC-SB, 5-pack Type K, self-adhesive thermocouple, 2 m (80”), with SS overbraid.