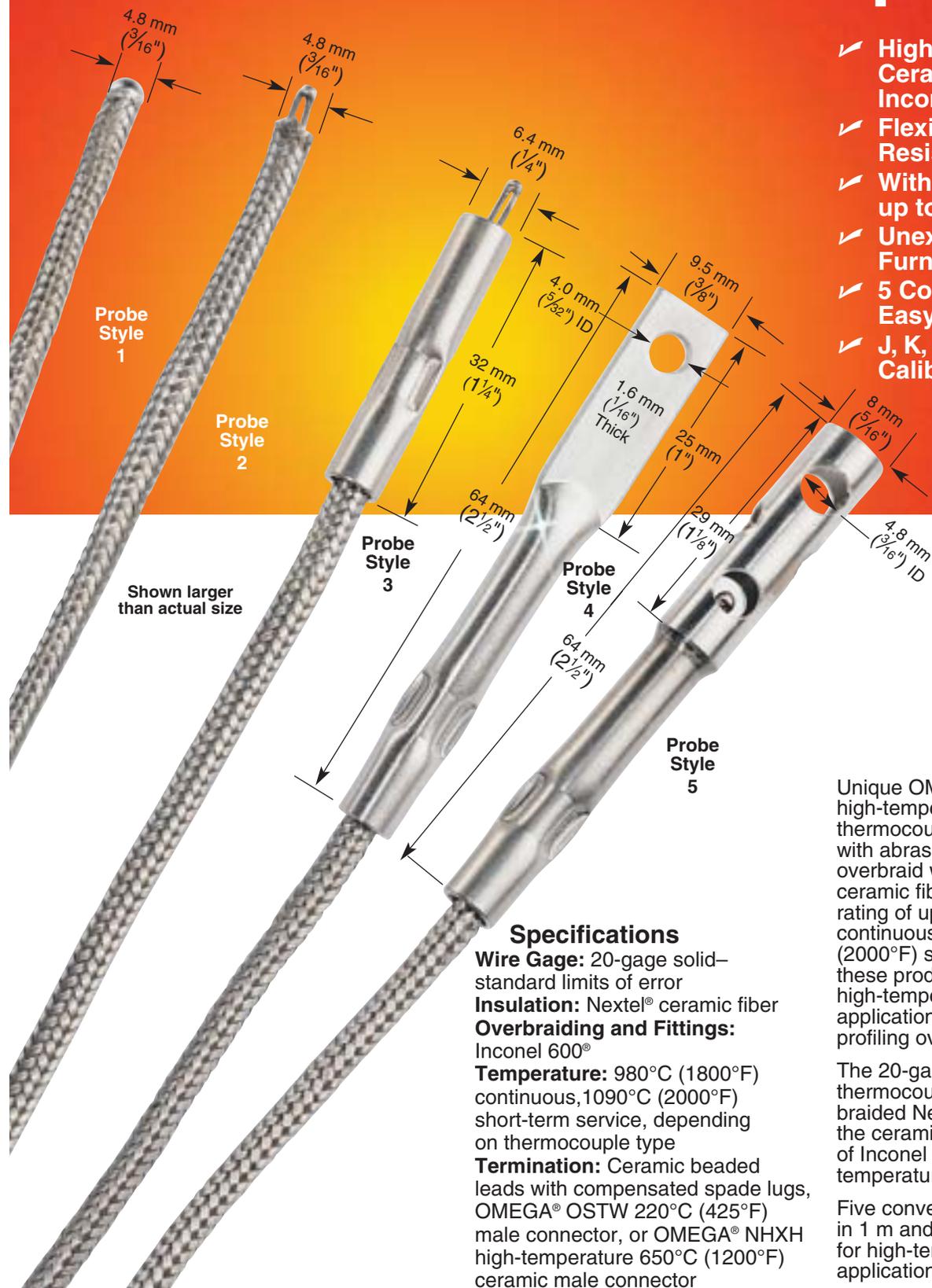


# Hi-Temperature Inconel Overbraided Ceramic Fiber Insulated Thermocouples



- ✓ High-Temperature Ceramic Insulation with Inconel Overbraid
- ✓ Flexible, Abrasion Resistant
- ✓ Withstand Temperatures up to 1090°C (2000°F)
- ✓ Unexcelled Oven and Furnace Profiling
- ✓ 5 Convenient Styles for Easy Application
- ✓ J, K, E, or N Thermocouple Calibrations

XCIB Series Starts at **\$35**



### Specifications

**Wire Gage:** 20-gage solid—standard limits of error  
**Insulation:** Nextel® ceramic fiber  
**Overbraiding and Fittings:** Inconel 600®  
**Temperature:** 980°C (1800°F) continuous, 1090°C (2000°F) short-term service, depending on thermocouple type  
**Termination:** Ceramic beaded leads with compensated spade lugs, OMEGA® OSTW 220°C (425°F) male connector, or OMEGA® NHXH high-temperature 650°C (1200°F) ceramic male connector

Unique OMEGA® family of high-temperature types J, K, E, or N thermocouples are double-protected with abrasion-resistant Inconel overbraid with high-temperature ceramic fiber insulation. A temperature rating of up to 980°C (1800°F) continuous service and 1090°C (2000°F) short-term service makes these products ideal for many high-temperature measurement applications. They are unexcelled for profiling ovens and furnaces.

The 20-gage solid conductor thermocouple wires are insulated with braided Nextel® ceramic fiber. Over the ceramic fiber is a rugged overbraid of Inconel 600®—a tough, high-temperature, high nickel-content alloy.

Five convenient styles are available in 1 m and 3 m (3' and 10') lengths for high-temperature measurement applications.

### Style 1

Style 1 is a grounded junction thermocouple with the Inconel overbraid welded to form a smooth rounded tip for all general purpose applications.

### Style 2

Style 2 is a general purpose, bead welded, exposed junction thermocouple.

### Style 3

Style 3 is an exposed, bead welded junction thermocouple with an Inconel collar to clamp the probe to a surface, or to secure it into a hole or any fabrication.

### Style 4

Style 4 is grounded. It can be bolted to a surface, or the Inconel eye can hook the thermocouple to a conveyor flight. Ungrounded units and special hole sites are available. Contact Sales department for more information.

### Style 5

Style 5 has an Inconel air hood to protect the exposed beaded wire junction. This design can be clamped to a surface, hooked to a conveyor flight, or bolted to a surface by using the through hole at the open end of the hood.



**MOST POPULAR MODELS HIGHLIGHTED!**

## To Order (Specify Model Number)

Model Number	Probe Style	Termination Type	Price 1 m (3')	Price 3 m (10')	Model Number	Probe Style	Termination Type	Price 1 m (3')	Price 3 m (10')
XCIB-(*)-1-1-(**)	1	1	\$43	\$57	XCIB-(*)-4-1-(**)	4	1	\$48	\$62
XCIB-(*)-1-2-(**)		2	35	49	XCIB-(*)-4-2-(**)		2	46	60
XCIB-(*)-1-3-(**)		3	38	52	XCIB-(*)-4-3-(**)		3	49	63
XCIB-(*)-1-4-(**)		4	40	54	XCIB-(*)-4-4-(**)		4	46	60
XCIB-(*)-1-5-(**)		5	35	54	XCIB--(*)-4-5-(**)		5	46	60
XCIB-(*)-1-6-(**)		6	35	49	XCIB--(*)-4-6-(**)		6	46	60
XCIB-(*)-1-7-(**)		7	38	52	XCIB--(*)-4-7-(**)		7	49	63
XCIB-(*)-2-1-(**)	2	1	43	57	XCIB-(*)-5-1-(**)	5	1	51	65
XCIB-(*)-2-2-(**)		2	35	49	XCIB-(*)-5-2-(**)		2	51	65
XCIB-(*)-2-3-(**)		3	38	52	XCIB-(*)-5-3-(**)		3	54	68
XCIB-(*)-2-4-(**)		4	40	54	XCIB-(*)-5-4-(**)		4	49	63
XCIB-(*)-2-5-(**)		5	35	54	XCIB-(*)-5-5-(**)		5	51	63
XCIB-(*)-2-6-(**)		6	35	49	XCIB-(*)-5-6-(**)		6	51	65
XCIB-(*)-2-7-(**)		7	38	52	XCIB-(*)-5-7-(**)		7	54	68
XCIB-(*)-3-1-(**)	3	1	46	60	<i>* Specify thermocouple Type: J: Iron-Constantan, K: CHROMEALLOM<sup>®</sup>-ALOMEGA<sup>®</sup>, E: CHROMEALLOM<sup>®</sup>-Constantan, N: OMEGALLOY<sup>®</sup>-NICROSIL-NISIL</i> Use prefix of "CAL-" for assemblies to be supplied with calibration data at specified temperatures. Check Sales department for pricing. ** Specify length in feet: 3' or 10' standard. Price per additional 1', up to 50': \$3.60. Price per additional 1', over 50': \$3.00. Note: Available with silica insulation. Change "XCIB" in model number to "XSIB". No extra charge. Ordering Example: XCIB-K-1-3-10, XCIB Type K probe, probe style 1 with termination Type 3 m (10') length, \$52.				
XCIB-(*)-3-2-(**)		2	40	54					
XCIB-(*)-3-3-(**)		3	43	57					
XCIB-(*)-3-4-(**)		4	44	58					
XCIB-(*)-3-5-(**)		5	40	58					
XCIB-(*)-3-6-(**)		6	40	54					
XCIB-(*)-3-7-(**)		7	43	57					

**Termination Types**

1. Ceramic beaded leads with compensated spade lugs.

2. Type OSTW male standard thermocouple connector to 220°C (425°F).

3. Type NHXH male ceramic connector to 650°C (1200°F).

4. Nextel<sup>®</sup> insulated leads with compensated spade lugs.

5. Stripped leads.

6. SMPW mini-male connector to 220°C (425°F) max.

7. SHX mini-male ceramic connector to 650°C (1200°F) max.



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