



High Temperature Inconel Overbraided Ceramic Fiber Insulated Thermocouples XCIB SERIES



Unique NEWPORT® 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 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 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 3 ft. and 10 ft. lengths for high temperature measurement applications.

Specifications

Wire Gage: 20 gage solid-standard limits of error

Insulation: Nextel® ceramic fiber

Overbraiding & Fittings: Inconel 600®

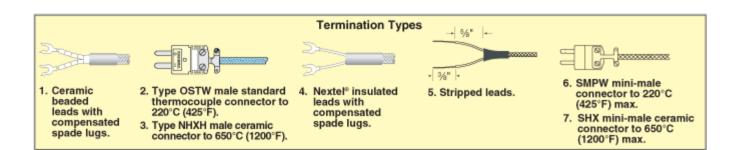
Temperature: $980^{\circ}C$ ($1800^{\circ}F$) continuous, $1090^{\circ}C$ ($2000^{\circ}F$) short-term service, depending on thermocouple type.

Termination: Ceramic beaded leads with compensated spade lugs, OSTW 220°C (425°F) male connector, or NHXH high temperature 650°C (1200°F) ceramic male connector

Probe Style

Style 1	illinini)	A grounded junction thermocouple with the Inconel overbraid welded to form a smooth rounded tip for all general purpose applications.
Style 2	-	A general purpose, bead welded, exposed junction thermocouple.
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Style 3	-	An exposed junction, 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	0	Grounded junction. It can be bolted to a surface, or the Inconel eye can hook the thermocouple to a conveyor flight. Ungrounded junction versions are available. Contact sales for more information.
Style 5	Ť.	Has an Inconel air hood to protect the beaded wire exposed 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.



Model Number	Probe Style	Termination Type		
XCIB-(*)-1-1-(**)		1		
XCIB-(*)-1-2-(**)	1	2		
XCIB-(*)-1-3-(**)	1	3		
XCIB-(*)-1-4-(**)		4		
XCIB-(*)-2-1-(**)		1		
XCIB-(*)-2-2-(**)	2	2		
XCIB-(*)-2-3-(**)	2	3		
XCIB-(*)-2-4-(**)		4		
XCIB-(*)-3-1-(**)		1		
XCIB-(*)-3-2-(**)	3	2		
XCIB-(*)-3-3-(**)		3		
XCIB-(*)-3-4-(**)		4		
XCIB-(*)-4-1-(**)		1		
XCIB-(*)-4-2-(**)	4	2		
XCIB-(*)-4-3-(**)	4	3		
XCIB-(*)-4-4-(**)		4		
XCIB-(*)-5-1-(**)		1		
XCIB-(*)-5-2-(**)	F	2		
XCIB-(*)-5-3-(**)	5	3		
XCIB-(*)-5-4-(**)		4		

* Specify Thermocouple Type: J: Iron-Constantan, K: CHROMEGA®-ALOMEGA®, E: CHROMEGA®-Constantan, N: OMEGALLOY®-NICROSIL-NISIL Use prefix of "CAL-" for assemblies to be supplied with calibration data at specified temperatures. Check Sales Dept. for pricing ** Specify length in feet. 3' or 10' standard Note: Available with Silica insulation. Change "XCIB" in model number to "XSIB". No additional charge.

Part Number	Description	Qt
XCIB-J-1-1-3	J Type Thermocouple, grounded welded thermocouple junction, ceramic beaded leads with spade lugs, 3' length	
XCIB-K-1-1-3	K Type Thermocouple, grounded welded thermocouple junction, ceramic beaded leads with spade lugs, 3' length	
XCIB-J-2-1-3	J Type Thermocouple, exposed thermocouple junction, ceramic beaded leads with spade lugs, 3' length	
XCIB-K-2-1-3	K Type Thermocouple, exposed thermocouple junction, ceramic beaded leads with spade lugs, 3' length	
XCIB-J-4-1-3	J Type Thermocouple, bolt-on thermocouple junction, ceramic beaded leads with spade lugs, 3' length	
XCIB-К-4-1-3	K Type Thermocouple, bolt-on thermocouple junction, ceramic beaded leads with spade lugs, 3' length	

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	(1)	(2)	(3)	(4)		
XCIB-	J - '	- ו	1 -	3		
Option I	Descriptio	ns				
(1) Ther	mocouple	Туре				
E for	r K Type TI - E Type Th r N Type T be Style	iermoco	uple			
Sele 1 for 2 for	Grounded Exposed Exposed Bolt-on Ju	lunction lunction unction	with Co			
4 for	Air Hood	Junction				
4 for 5 for	r Air Hood nination	Junetion				

- 2 for OST Male ConnectoR
- 3 for NHXH Ceramic Connector
- 4 for Nextel Insulated Leads with Spade Lugs
- 5 for Stripped leads
- **6** for SMPW mini-male
- 7 for SHX mini-male ceramic

(4) Length

Select

3 for 3 Feet

10 for 10 Feet

CUSTOM for custom length in feet(whole numbers up to 50' max. For over 50' please consult sales)

NOTE: All combinations may not be valid, check spec sheet for valid part numbers.