

Nextel®-Covered Flexible Thermocouple Elements

High Temperature

XC Series



Popular Type K thermocouple elements shown smaller than actual size.

Color-Coded Leads

Flexible Design for Hard-to-Reach Applications. No Breakage.

- ✓ Standard 300 mm (12") Long Thermocouple Elements
- ✓ Available in Type K, E, and J Calibrations
- ✓ Insulation Temperature Rating Up to 1200°C (2200°F)

OMEGA® Nextel ceramic-insulated thermocouples are easy-to-use precise temperature elements manufactured to meet the highest industry standards. The Nextel ceramic insulation is rated for 1200°C (2200°F) continuous use, or 1425°C (2600°F) short term. These highly versatile elements are ideal for many high-temperature applications. If requested, OMEGA can combine these elements with thermowells and industrial heads to produce a complete head and well assembly, available for fast delivery.

Available in 3 wire sizes, 14, 20, and 24 gage, the standard element configuration is 300 mm (12") long, with a general purpose welded bead, an exposed-junction thermocouple, plus a 13 mm (0.5")



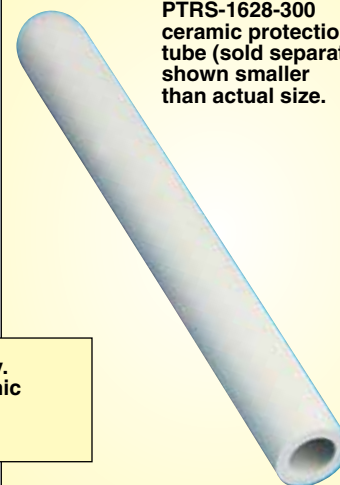
Actual size.

stripped end termination. Calibration Types K (CHROMEGA®-ALOMEGA®), E (CHROMEGA®-constantan), J (iron-constantan), and N (OMEGALLOY®-NICROSIL-NISIL) are available. For additional abrasion protection, order stainless steel or Inconel® overbraiding. Consult Sales for more information.

Complete Your Thermocouple Assembly. A complete selection of OMEGA® ceramic protection tubes and compatible wells are available online.

Discount Schedule	
1 to 10	Net
11 to 24	5%
25 to 49	10%
50 and up	15%

PTRS-1628-300 ceramic protection tube (sold separately) shown smaller than actual size.



To Order

300 mm (12") Long with Insulation, Plus 13 mm (0.5") Stripped Ends Standard (Other Lengths Available)

AWG Wire Size	Type K Temp Range -185 to 1250°C (-300 to 2300°F)	Type E Temp Range -185 to 850°C (-300 to 1600°F)	Type J Temp Range -185 to 750°C (-300 to 1400°F)
14	XC-14-K-12	XC-14-E-12	XC-14-J-12
20	XC-20-K-12	XC-20-E-12	XC-20-J-12
24	XC-24-K-12	XC-24-E-12	XC-24-J-12

To order longer elements, change "-12" to indicate actual length required. Temperature limitation is by type of thermocouple material selected. For a male straight M8 plug add "M8-S-M" to the model number for an additional cost, for a male straight M12 plug add "M12-S-M" to the model number for an additional cost. For a male right-angled M8 plug add "M8-R-M" to the model number for an additional cost, for a male right-angled M12 plug add "M12-S-M" to the model number for an additional cost.

Note: Available with silica insulation. Change the "XC" to "XS", no additional cost.

Ordering Example: XC-20-J-12, 20 AWG thermocouple, Type J, 12" long with Nextel ceramic fiber insulation.