

Nextel®-Covered Flexible Thermocouple Elements

High Temperature

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

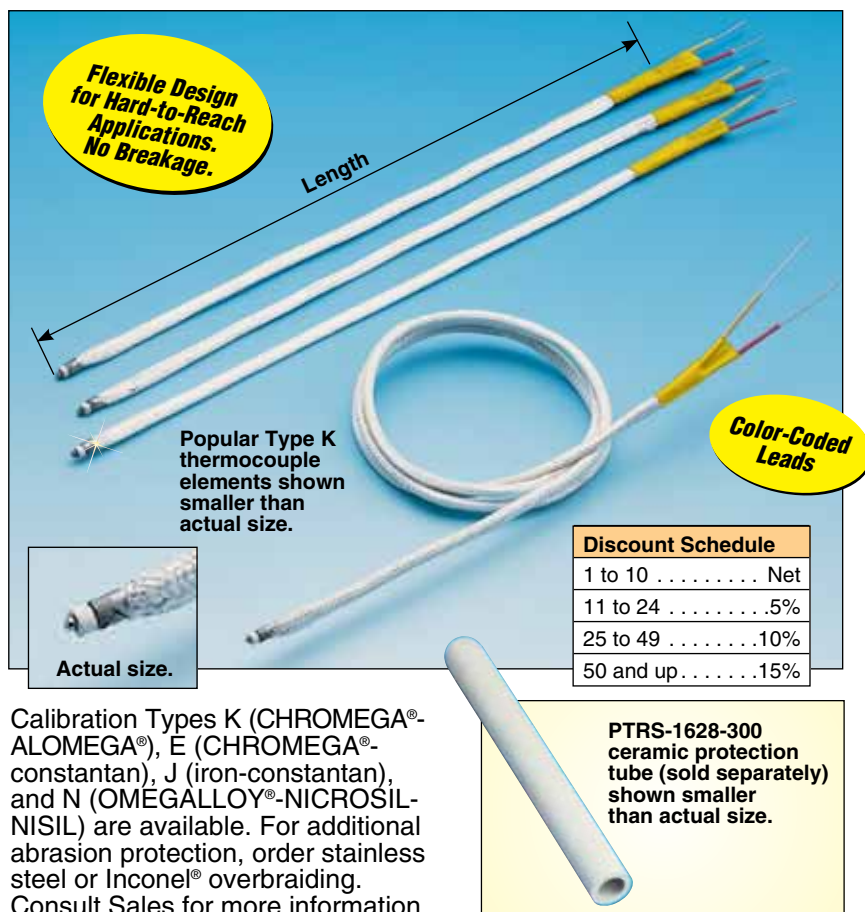
XC Series



- ✓ 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® 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") stripped end termination.



Calibration Types K (CHROMEALOMEGA®, E (CHROMEALOMEGA®-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.

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)

Model No.	Thermocouple Type	AWG	Temperature Range
XC-14-K-12	K	14	0 to 1090°C (32 to 2000°F)
XC-20-K-12	K	20	0 to 980°C (32 to 1800°F)
XC-24-K-12	K	24	0 to 870°C (32 to 1600°F)
XC-14-J-12	J	14	0 to 590°C (32 to 1100°F)
XC-20-J-12	J	20	0 to 480°C (32 to 900°F)
XC-24-J-12	J	24	0 to 370°C (32 to 700°F)
XC-14-E-12	E	14	0 to 650°C (32 to 1200°F)
XC-20-E-12	E	20	0 to 540°C (32 to 1000°F)
XC-24-E-12	E	24	0 to 430°C (32 to 800°F)
XC-14-N-12	N	14	0 to 1090°C (32 to 2000°F)
XC-20-N-12	N	20	0 to 980°C (32 to 1800°F)
XC-24-N-12	N	24	0 to 980°C (32 to 1800°F)

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-R-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.