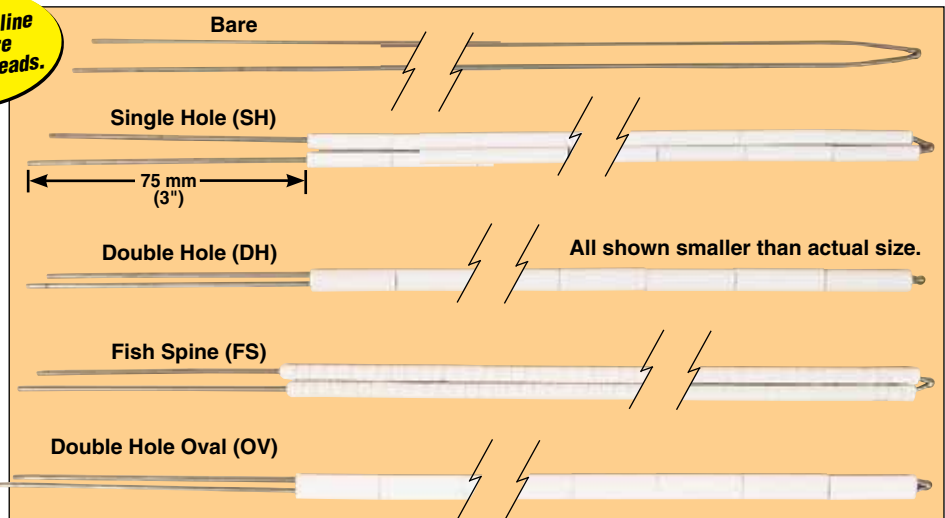


# Thermocouple Elements

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

Visit Us Online  
for Spare  
Insulator Beads.

OMEGA® thermocouples are precise temperature measuring elements and are made of the highest grade materials available. They are carefully assembled according to the highest standards set by the industry. OMEGA's thermocouples are checked against standard temperature-millivolt curves to assure calibration accuracy and are made from material that meets or exceeds both ANSI Special Limits of Error and EN 60584-2: Tolerance Class 1.



Iron-Constantan (J), CHROMEQA®-ALOMEGA® (K), CHROMEQA®-Constantan (E) Thermocouple Wire, Copper-Constantan (T), OMEGALLOY®-NICROSIL-NISIL (N)

To Order						
Base Metal Thermocouples 300 mm (12") Long plus 76.2 (3") Leads Standard						
Type of Element	AWG Wire Size	Insulator Used	Type J Iron-Constantan	Type K CHROMEQA®-ALOMEGA®	Type T Copper-Constantan	Type E CHROMEQA®-Constantan
Bare Wires (No Insulators)	8		Bare-8-J-12	Bare-8-K-12	Bare-8-T-12	Bare-8-E-12
	14	None	Bare-14-J-12	Bare-14-K-12	Bare-14-T-12	Bare-14-E-12
	20		Bare-20-J-12	Bare-20-K-12	Bare-20-T-12	Bare-20-E-12
	24		Bare-24-J-12	Bare-24-K-12	Bare-24-T-12	Bare-24-E-12
With Single Hole Round Insulators	8	SH-1-8	SH-1-8-J-12	SH-1-8-K-12	SH-1-8-T-12	SH-1-8-E-12
	14	SH-1-14	SH-1-14-J-12	SH-1-14-K-12	SH-1-14-T-12	SH-1-14-E-12
	20	SH-1-20	SH-1-20-J-12	SH-1-20-K-12	SH-1-20-T-12	SH-1-20-E-12
	24	SH-1-24	SH-1-24-J-12	SH-1-24-K-12	SH-1-24-T-12	SH-1-24-E-12
With Double Hole Round Insulators	8	DH-1-8	DH-1-8-J-12	DH-1-8-K-12	DH-1-8-T-12	DH-1-8-E-12
	14	DH-1-14	DH-1-14-J-12	DH-1-14-K-12	DH-1-14-T-12	DH-1-14-E-12
	20	DH-1-20	DH-1-20-J-12	DH-1-20-K-12	DH-1-20-T-12	DH-1-20-E-12
	24	DH-1-24	DH-1-24-J-12	DH-1-24-K-12	DH-1-24-T-12	DH-1-24-E-12
With Single Hole Fish-Spine Insulators	8	FS-260-8	FS-260-8-J-12	FS-260-8-K-12	FS-260-8-T-12	FS-260-8-E-12
	14	FS-200-14	FS-200-14-J-12	FS-200-14-K-12	FS-200-14-T-12	FS-200-14-E-12
	20	FS-110-20	FS-110-20-J-12	FS-110-20-K-12	FS-110-20-T-12	FS-110-20-E-12
With Double Hole Oval Insulators	8	OV-1-8	OV-1-8-J-12	OV-1-8-K-12	OV-1-8-T-12	OV-1-8-E-12
	14	OV-1-14	OV-1-14-J-12	OV-1-14-K-12	OV-1-14-T-12	OV-14-E-12
	20	OV-1-20	OV-1-20-J-12	OV-1-20-K-12	V-1-20-T-12	OV-1-20-E-12

† Optional lengths available. When ordering, change the last digits (-12) to show actual length desired in inches and fractions or millimeters. Over 5', consult Sales Department for pricing.

†† For R, S and B thermocouples, with RAT, SAT, BAT series, visit us online.

## Insulator Dimensional Chart

Dimensions: mm (inch)

AWG Wire Size	Single Hole (SH)		Double Hole (DH)		Fish Spine (FS)		Double Hole Oval (OV)		Insulation Temperature Ratings**	
	SH OD (Indv'l)	Well ID*	DH OD	Well ID*	FS OD (Indv'l)	Well ID*	DH OD	Well ID*		
8	6.35 (0.250)	13.33 (0.525)	11.91 (0.469)	12.42 (0.489)	6.60 (0.260)	13.84 (0.545)	11.91 (0.469)	12.42 (0.489)	XC	1200°C (2200°F)
14	4.77 (0.188)	10.16 (0.400)	7.14 (0.281)	7.67 (0.302)	5.08 (0.200)	10.79 (0.425)	7.29 (0.312)	8.43 (0.332)	SH	1600°C (2900°F)
20	3.17 (0.125)	6.98 (0.275)	3.96 (0.156)	4.47 (0.176)	2.80 (0.110)	6.22 (0.245)	4.37 (0.172)	4.87 (0.192)	DH	1600°C (2900°F)
24	1.60 (0.063)	3.81 (0.150)	3.17 (0.125)	3.68 (0.145)	-	-	-	-	FS	1200°C (2200°F)
									OV	1600°C (2900°F)

\*\* Insulation only. Check operating limits of wire.

† XE Nextel braided ceramic sleeving.

\* Recommended minimum well, tube or hole ID

Note: For all bead dimensions, visit us online.

Ordering Example: DH-1-14-K-12, 14 AWG Type K thermocouple, 300 mm (12") long with double hole (DH) type ceramic bead insulators.