thermo sensors corporation

A Leading Manufacturer of Quality Thermocouple and RTD Assemblies Since 1972

Address: P.O. Box 461947 Garland, TX 75046
Phone: 972-494-1566 **Toll Free:** 1-800-889-5478
Website: www.thermosensors.com

Thermocouple Wire

This section has been developed to serve as a guide in the selection of wires to accomplish most all temperature measuring requirements. Featured is a large selection of thermoelements, insulation materials and constructions. Should you need assistance, Thermo Sensors' sales personnel are anxious to help you in selecting the wire to give optimum performance in your application.



Thermo Sensors' thermocouple and extension wires are known for their quality performance and reliability. Careful attention is given to the proper selection and matching of conductors to ensure conformance to standard limits of error as defined in ANSI C96.1. Unless otherwise specified, all wire will be furnished to standard limits of error. Many of the wires are available with special limits of error and must be specified when ordering.

Bare Thermocouple Wire

Base Metal - Matched Pairs

ANSI Calibration	Type of Wire	Wire Size		Approx Ft / #	Catalog Number
		AWG	Inches		
J	Iron/Constantan	8	.128	10	B8J
		14	.064	43	B14J
		20	.032	175	B20J
		24	.020	440	B24J
		30	.010	1760	B30J
K	Chromel/Alumel	8	.128	10	B8K
		14	.064	40	B14K
		20	.032	162	B20K
		24	.020	420	B24K
		30	.010	1685	B30K
E	Chromel/Constantan	8	.128	10	B8E
		14	.064	40	B14E
		20	.032	162	B20E
		24	.020	420	B24E
		30	.010	1685	B30E
T	Copper/Constantan	14	.064	40	B14T
		20	.032	162	B20T
		24	.020	420	B24T

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Noble Metal - Matched Pairs*

ANSI Calibration	Type of Wire	Wire Size		Approx Ft / #	Catalog Number
		AWG	Inches		
R	Platinum-13% Rhodium (+) VS Platinum (-)	24	.020	309 282	B24R
R	Platinum-10% Rhodium (+) VS Platinum (-)	24	.020	302 282	B24S
R	Platinum-30% Rhodium (+) VS Platinum-6% Rhodium (-)	24	.020	345 294	B24B
*Sold as Matched Pairs Only					

Iron / Constantan - Type J - Individual Conductors

Positive					Negative				
ANSI Calibration	Type of Wire	Wire Size AWG	Approx. ft /#	Catalog Number	ANSI Calibration	Type of Wire	Wire Size AWG	Approx. ft /#	Catalog Number
JP	Iron	8	23	B8JP	JP	Constantan	8	20	B8JN
		14	91	B14JP			14	80	B14JN
		20	365	B20JP			20	323	B20JN
		24	926	B24JP			24	818	B24JN
		30	3740	B30JP			30	3290	B30JN

Chromel / Alumel - Type K - Individual Conductors

Positive					Negative				
ANSI Calibration	Type of Wire	Wire Size AWG	Approx. ft /#	Catalog Number	ANSI Calibration	Type of Wire	Wire Size AWG	Approx. ft /#	Catalog Number
KP	Chromel	8	20	B8KP	KN	Alumel	8	20	B8KN
		14	80	B14KP			14	80	B14KN
		20	331	B20KP			20	331	B20KN
		24	838	B24KP			24	838	B24KN
		30	3370	B30KP			30	3370	B30KN

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Chromel / Constantan - Type E - Individual Conductors

Positive					Negative				
ANSI Calibration	Type of Wire	Wire Size AWG	Approx. ft /#	Catalog Number	ANSI Calibration	Type of Wire	Wire Size AWG	Approx. ft /#	Catalog Number
EP	Chromel	8	20	B8EP	EN	Constantan	8	20	B8EN
		14	80	B14EP			14	80	B14EN
		20	331	B20EP			20	331	B20EN
		24	838	B24EP			24	838	B24EN
		30	3370	B30EP			30	3370	B30EN

Copper / Constantan - Type T - Individual Conductors

Positive					Negative				
ANSI Calibration	Type of Wire	Wire Size AWG	Approx. ft /#	Catalog Number	ANSI Calibration	Type of Wire	Wire Size AWG	Approx. ft /#	Catalog Number
TP	Copper	14	80	B14TP	TN	Constantan	14	80	B14TN
		20	322	B20TP			20	331	B20TN
		24	815	B24TP			24	838	B24TN

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