

A Leading Manufacturer of Quality Thermocouple and RTD Assemblies Since 1972

MGO Thermocouples

Thermo Sensors MGO thermocouple insulation materials feature Cerampak. These MGO thermocouples are recommended where the thermocouple is immersed in liquids, high moisture, corrosive gases, or high pressures.

Cerampak is a densely compacted ceramic which is very versatile. This weldable and flexible material can withstand temperatures from cryogenic to 2300°F as well as pressures from vacuum to 60,000 psi.

A wide variety of design, sheath material and diameter selections are available to suit application conditions. A variety of heads, connectors or flexible leads can be specified for the termination.



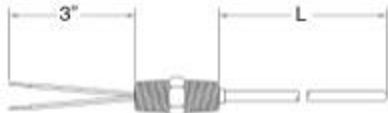
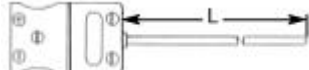
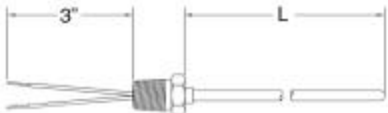





Please refer to our order guide to assist in determining your needs. We can also provide technical design assistance and application suggestions. Give us a call.



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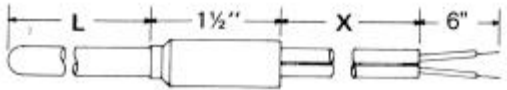
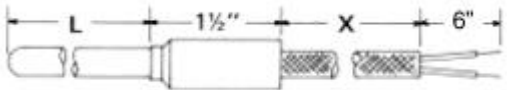
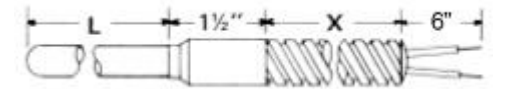
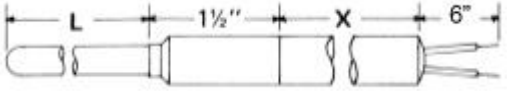
Cold Junction Terminations

Table 4

Connectors / Fittings	Order Code	Connectors	Order Code
 <p>*For longer lengths; replace "3" with desired length.</p>	B3*	 <p>Standard male plug.</p>	M (400 F) HM (800 F)
 <p>1/2" npt x 1/2" npt SS Double threaded bushing brazed to the sheath.</p>	SB	 <p>Standard female jack.</p>	F (400 F) HF (800 F)
 <p>1/2" NPT SS threaded bushing brazed to sheath.</p>	FS4	 <p>Dual male plug.</p>	DM (400 F) HDM (800 F)
 <p>1/2" NPT x 1/2" NPT SS Double threaded bushing spring-loaded to sheath</p>	SBS	 <p>Dual female jack.</p>	DF (400 F) HDF (800 F)
		 <p>Miniature male plug. (for sheath diameters 1/8" maximum)</p>	TM (400 F) HTM (800 F)
		 <p>Miniature female jack. (for sheath diameter 1/8" maximum)</p>	TF (400 F) HTF (800 F)

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Table 4 continued

Extended Leads / Lead Terminations		Order Code
 <p>20 AWG Wire Extension**</p>	Fiberglass Insulation	TG(X)*
	Polyvinyl Insulation	TP(X)*
	Teflon Insulation	TT(X)*
	Kapton Insulation	TK(X)*
	Polyvinyl Insulation, Twisted, Alum-Mylar Sheilded w/ Drainwire Grounded to the sheath.	TPZD(X)*
 <p>20 AWG Wire Extension Inside Stainless Steel Overbraid**</p>	Fiberglass Insulation	TGS(X)*
	Polyvinyl Insulation	TPS(X)*
	Teflon Insulation	TTS(X)*
	Kapton Insulation	TKS(X)*
 <p>20 AWG Wire Extension inside stainless steel flexible tubing armor.**</p>	Fiberglass Insulation	TGA(X)*
	Polyvinyl Insulation	TPA(X)*
	Teflon Insulation	TTA(X)*
	Kapton Insulation	TKA(X)*
 <p>20 AWG Wire Extension inside polyvinyl covered stainless steel flexible tubing armor.**</p>	Fiberglass Insulation	TGP(X)*
	Polyvinyl Insulation	TPP(X)*
	Teflon Insulation	TTP(X)*
	Kapton Insulation	TKP(X)*

* Replace (X) with desired length in inches.

** Standard conductors are solid. For stranded conductors - Specify by placing "F" in the order code before length. Example: TGSF36. (Not available for "TPZD" option).

*** "DRIP loop" style T/C's are available in armored lead options. Choose head option in the hardware section and add head order code as a suffix to the complete part number.

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Table 4 continued
Terminal Heads

Figure 1 T/C Assembly Without Process Fitting

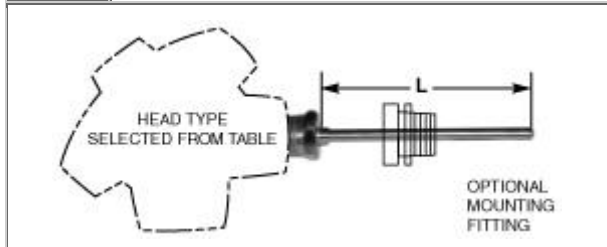


Figure 2 T/C Assembly w/ 1/2" NPT Process Fitting

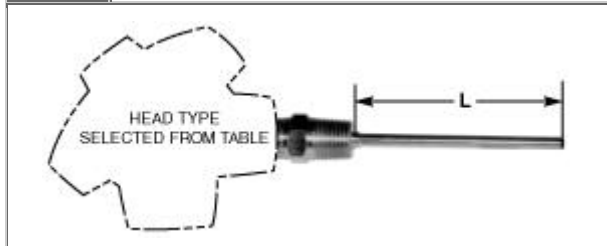
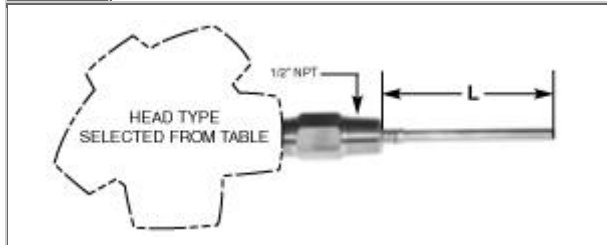


Figure 3 T/C Assembly w/ 1/2" NPT Spring Loaded Fitting



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Table 4 continued

Type of Head	Head Material	Basic Order Code		
		Figure 1	Figure 2	Figure 3
 Industrial Weatherproof Screw Cover Head	Cast Aluminum	100	200	300
 Epoxy Coated Weatherproof Screw Cover Head <small>3/4" Conduit</small>	Cast Iron	102	202	302
 General Purpose Weatherproof Screw Cover Head For Flip Top Style, add suffix "F" to basic order code	Cast Aluminum	104	204	304
 Corrosion Resistant Weatherproof Screw Cover Head <small>1/2" Conduit</small> For Flip Top Style, add suffix "F" to basic order code	Nylon	106	206	306
 CSA / ATEX / FM Approved Explosion Proof Head meets NEC Class I Div I Groups B, C, D Class II Div I, Groups E, F, G NEMA 4X, 7, 9, II2G, Ex d, IIC, Gb, II2 D, Ex tb, IIIC Db, IECEx	Cast Aluminum	108	208	308
	316 Stainless Steel	110	210	310