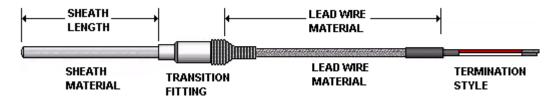
Style TL1

Mineral Insulated Thermocouple with Lead Wires



Ordering Information Part Number

Optional

① TL1	2 Calibration	3 Sheath Diameter	Sheath Length (whole In.)	© Sheath Length (Frac.in.)	(7) Junction	8 Transition fitting	9 Lead wire material	Lead wire Length (In.)	Termination Style	Special Features	Attached Fitting	Insertion Length (whole in.)	Insertion Length (Frac.in.)
TL1													

Lead wire material

(2)	Calibration
J	Type J
K	Туре К
Т	Туре Т
E	Type E
w	Type J (special limits)
X	Type K (special limits)
Υ	Type T (special limits)
Z	Type E (special limits)

		(fractional in.)
	Α	0
	В	1/8"
	С	1/4"
	D	3/8"
	E	1/2"
I	F	5/8"
	G	3/4"
1	Н	7/8"

Sheath Length (whole in.) Specify in Inches

Α	Fiberglass (800°F)			See next page	
В	Fluoropolymer (400°F)		1 3	Amakad Fililian (antiquel)	
С	Polyimide (500°F)		13	Attached Fitting (optional)	
D	PVC (220°F)		Note	See next page	
E	High temperature fiberglass (1200°F)		14	Insertion length (in.)	
F	Fiberglass with stainless steel braid (800°F)		Note	See next page	
G	Fluoropolymer with stainless steel braid (400°F)		(15)	Insertion Length	
Н	Fiberglass with armor cable (800°F))	(fractional in.)	
J	Fluoropolymer with armor cable (400°F)		Note See next page		
K	Polyimide with armor cable (500°F)				
L	High temp. fiberglass w/ armor cable (1200°F)	1	See n	ext page for optional	
М	Fiberglass with stainless steel braid with armor cable (800°F)	ш		ned fittings	
w	Fluoropolymer with stainless steel braid with armor cable (400°F)	ш	& special features (Fields 12,13,14,&15)		
х	High temp fiberglass w/ ss steel braid (1200°F)				
Note	Wire gauge based on sheath diameter		For 90) degree bend see	

(12)	Special features (optional)				
Note	See next page				
13	Attached Fitting (optional)				
Note	See next page				
14)	Insertion length (in.)				
Note	See next page				
15	Insertion Length (fractional in.)				
Note	See next page				

	71 (-1
Υ	Type T (special limits)
Z	Type E (special limits)
3	Sheath Diameter
A	.032" (0.8mm)
В	.040" (1mm)
C	.059" (1.5mm)
D	.062" (1.6mm) (1/16")
E	.079" (2mm)
F	.092" (2.3mm)
G	.118" (3mm)
Н	.125" (3.2mm) (1/8")
J	.156" (4mm)
K	.177" (4.5mm)
L	.188" (4.6mm) (3/16")
М	.236 (6mm)
N	.250" (6.4mm) (1/4")
Р	.314" (8mm) (5/16")
Q	.375" (9.5mm) (3/8")
Note	Sizes for reference only (standard tolerances apply)
Note	For other diameters consult factory
	Shooth Material

7	Junction
G	Grounded (Single)
U	Ungrounded (Single)
E	Exposed (Single)
R	Exposed & Recessed (Single)
w	Grounded (Dual)
х	Ungrounded & Isolated (Dual)
Υ	Ungrounded Common (Dual)
Z	Exposed & Isolated (Dual)
Note	Ungrounded & Isolated (option "X") only available in .156"OD & larger
8	Transition Fitting

Note		Over 600" contact factory
006"-600"		Specify in Inches
10		Lead wire length (ln.)
Note	W	re gauge based on sheath diameter

For 90 degree bend see	
special features section of	r
next page	

Note	For other diameters consult factory				
4	Sheath Material				
F	304 SS				
Н	316 SS				
М	INCONEL (600)				
N	446 SS				
P	310 SS				
Q	Hastelloy X				
R	Pyrosil D				

8	Transition Fitting			
1	3/8"OD X 1.25" w/ spring (standard)			
2	1/4"OD X 1.25" w/ spring			
3	3/16"OD X 1" w/ spring			
4	3/8"OD X 1.25" (no spring)			
5	1/4"OD X 1.25" (no spring)			
6	3/16"OD X 1" (no spring)			
7	7/16"OD X 2" (no spring)			
8	3/8"OD X 2" (no spring)			
Note	500°F epoxy standard			
Note	See special features on next page for ceramic potting			

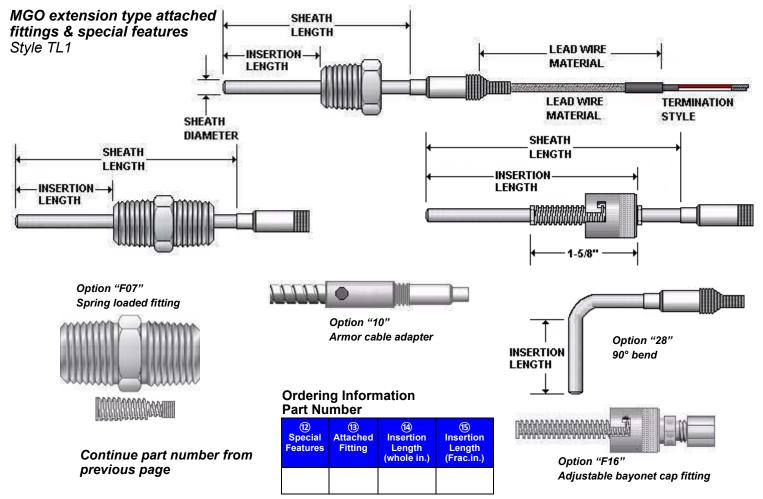
Α	2" stripped leads (bare ends)
В	2" stripped leads w/ spade lugs
С	Standard male plug (400°F)
D	High temp male Plug (660°F)
E	Max temp male Plug (800°F)
F	Ceramic male plug (1200°F)
G	Solid pin plug (400°F)
Н	Standard female jack (400°F)
J	Miniature male plug (400°F)
K	Miniature female jack (400°F)
L	2" stripped leads w/ #6 Ring terminals
N	Standard 3 pin plug w/ ground wire (400°F)
Р	Dual molded male plug (400°F)
z	Dual molded female jack (400°F)
w	2" stripped leads w/ pin terminals
Q	2" stripped leads w/ wire ferrules
х	Extra long lead wire length (beyond 2" stripped leads) (specify extra long lead wire length below)

006"-240" Specify in Inches

- Solid wire is standard on MGO extension thermocouples
- For stranded wire see next page special features

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006"-240"



12	Special features (Optional)	
Note	Leave blank for no special features	
47	Stranded conductor (Lead wire)	
04	Flat tip probe	
07	Cable clamp	
08	Bx Connector	
09	Mating connector	
10	Armor cable adaptor	
11	International IEC 584-3 color coded leads	
12	British color coded leads	
13	German color coded leads	
14	Japanese color coded leads	
15	Reverse polarity color coded leads	
16	French color coded leads	
18	Moisture protection boot on connector	
19	High temp ceramic potting (1200°F)	
21	Fluoropolymer coated armor cable (FEP Fluoropolymer)	
24	Fluoropolymer covered probe	
25	Free spinning fitting (held on probe by a crimp ring)	
28	90 degree bend	
30	45 Degree bend	

13	Attached Fitting (Optional)	
Note	Leave blank for no attached fitting	
F01	1/8"npt single thread	
F02	1/4"npt single thread	
F03	3/8"npt single thread	
F04	1/2"npt single thread	
F05	3/4"npt single thread	
F06	1/2"npt x 1/2"npt double thread	
F07	1/2"npt double thread spring loaded	
F08	1/2"npt x 1/2"npt double thread spring loaded w/oil seal	
F09	1/2"npt x 3/4"npt double thread	
F10	3/4"npt x 3/4"npt double thread	
F11	Fixed bayonet cap assembly	
F14	1/2"npt x 1"npt double thread	
F15	1"npt single thread	
F16	Adjustable 7/16"ID bayonet cap fitting(1/8"OD & 3mm OD)	
F17	Adjustable 12.5mm ID double slot bayonet cap fitting (1/8"OD & 3mm OD)	
F18	1/8"npt compression fitting (Brass)	
F19	1/8"npt compression fitting (Stainless steel)	
F20	1/4"npt compression fitting (Brass)	
F21	1/4"npt compression fitting (Stainless steel)	
F22	1/2"npt compression fitting (Brass)	
F23	1/2"npt compression fitting (Stainless steel)	
F28	1" circular mounting flange	
Note	For other fittings not shown contact factory	

Note	See pg.68-69 for attached fitting illustrations
001"-144"	Specify in Inches
4	Insertion Length (in.) (optional)

(15)	Sheath Length (fractional in.)
Α	0
В	1/8"
С	1/4"
D	3/8"
E	1/2"
F	5/8"
G	3/4"
Н	7/8"



Option "19" High temp ceramic potting

SOUTHWEST HEATER AND CONTROLS