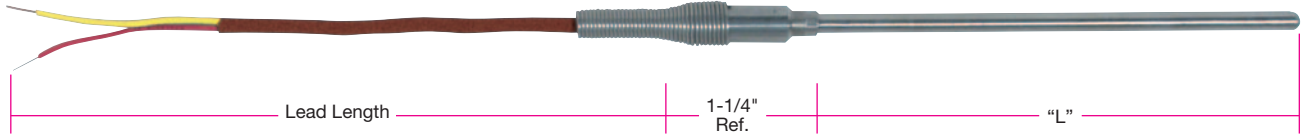




### Style MTA1 — Transition to Lead Wire (Custom Manufactured)



### Ordering Information

Thermocouples are offered with the options listed in the worksheet below. Create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements, and a part number will be assigned.



**Optional Installation Compression Fitting**  
See Box 13

### Design Features

- \* Mineral insulated sheath provides flexibility to form and bend the thermocouple to meet design requirements.
- \* Stainless steel transition with optional Strain Relief Spring
- \* Standard epoxy potting transition provides greater moisture resistance rated to 450°F (232°C). Optional ceramic based potting rated to 1000°F (538°C). Ceramic potting not recommended with Teflon® leads, nor for high humidity applications.

### Ordering Code:

MTA1 -

#### Calibration Code BOX 1

ANSI Standard Tolerances	J	K	E	T	N	R	S	B
Special Tolerances	3	4	5	6	7			

#### Junction BOX 8

	Grounded	Ungrounded	Exposed
Single	G	U	E
Dual, common	4	5	6
Dual, isolated	—	7	8

#### Lead Wire Length BOX 9

In inches **001 to 999**  
12" (012) Standard

#### Number of Conductors BOX 2

2 = Single (Standard)  
4 = Duplex

#### Insulation BOX 3

M = 96% min. MgO (Standard)  
H = 99.4% min. MgO

#### Sheath Material BOX 4

A = Alloy 600  
B = 304 SS  
C = 316 SS

#### Sheath O.D. BOX 5

A = .020" ±.001	K = .375" +.003/- .002
B = .032" ±.001	L = 1.0mm ±.03
C = .040" ±.001	N = 1.5mm ±.03
D = .063" ±.001	P = 2.0 mm ±.03
E = .093" ±.002	Q = 3.0 mm ±.03
F = .125" ±.002	R = 4.5 mm ±.05
G = .188" ±.002	S = 6.0 mm +.07/- .05
H = .250" +.003/- .002	T = 8.0 mm +.07/- .05
J = .313" +.003/- .002	V = 9.0 mm +.07/- .05

#### Sheath Length "L" BOX 6

Whole inches  
**01 to 99**  
For lengths over 99 in. consult TEMPCO.

#### Sheath Length "L" BOX 7

Fractional inches		
0 = 0"	3 = 3/8"	6 = 3/4"
1 = 1/8"	4 = 1/2"	7 = 7/8"
2 = 1/4"	5 = 5/8"	

#### Lead Wire Construction BOX 10

		w/ SS Overbraid	w/ SS Flex Armor
Fiberglass 900°F (482°C)	S	B	A
Teflon 400°F (204°C)	T	D	F

Depending on availability .040" to .125" uses 24 gauge lead wire. Larger than .125" thermocouples use 20 gauge lead wire depending on availability and insulation type.

#### Lead Wire Termination BOX 11

P = Standard Male Plug	F = Miniature Plug with Mating Jack
J = Standard Female Jack	B = Standard—2-1/2 in. Split Leads
K = Std. Plug with Mating Conn.	S = 2-1/2 in. Split Leads with Spade Lugs
D = Miniature Male Plug	C = 2-1/2 in. Split Leads with BX connector and Spade Lugs
E = Miniature Female Jack	X = Other (Specify)

See page 14-9 for Termination Style descriptions

#### Strain Relief Spring BOX 12

O = Not Required  
Y = Required

#### Optional Compression Fitting BOX 13

1 = 1/8" NPT SS	4 = 1/8" NPT Brass
2 = 1/4" NPT SS	5 = 1/4" NPT Brass
3 = 1/2" NPT SS	6 = 1/2" NPT Brass
0 = None Required	

#### Special Requirements BOX 14

H = High temp potting 1000°F (538°C)  
O = Standard Epoxy Potting 450°F (232°C)  
X = Other (Specify)

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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