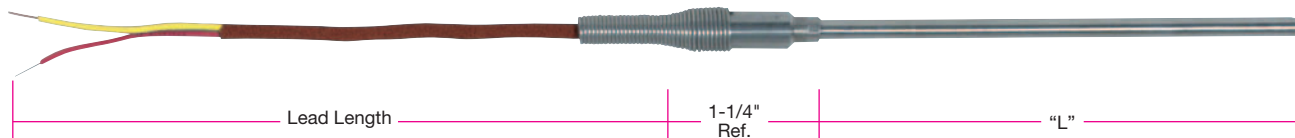




Style MTA1 — Transition to Lead Wire (Custom Manufactured)



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.

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