**Temperature Sensing**

**MI Cable Thermocouple Assemblies**

**Style MTA2 Plug or Jack Termination (Custom Manufactured)**

**Design Features**
- Pins are made with matching thermocouple alloys.
- Standard plugs come with hollow pins as standard and solid pins as an option.
- Standard size and miniature plugs and jacks have a 350°F (177°C) continuous and 400°F (204°C) intermittent temperature rating.
- High temperature plugs and jacks are rated for 500°F (260°C) continuous operation and 550°F (288°C) intermittent (brown only).
- Ultra high temperature plugs and jacks are rated for 800°F (427°C) continuous operation and 1000°F (538°C) intermittent (all are reddish-brown in color).
- Dual element available for sheath O.D. of 0.063” to 0.375”.
- 0.020” to 0.250” use crimp insert—0.313” and 0.375” use tube adapters.
- Miniature plugs have solid flat pins.

**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.

**Ordering Code:**

- **MTA2**
- **1**
- **2**
- **3**
- **4**
- **5**
- **6**
- **7**
- **8**
- **9**
- **10**
- **11**
- **12**
- **13**

**Calibration Code**
Box 1
- ANSI Standard Tolerances
  - J = .018” ± .001
  - K = .032” ± .001
  - E = .092” ± .001
  - T = 1.0mm ± .03
  - N = .040” ± .001
  - R = .063” ± .001
  - S = .125” ± .002
  - B = .188” ± .002
- Special Tolerances
  - 3 = .020” ± .001
  - 4 = .032” ± .001
  - 5 = .063” ± .001
  - 6 = .125” ± .002
  - 7 = .188” ± .002

**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
- B = .032” ± .001
- C = .040” ± .001
- D = .063” ± .001
- E = .092” ± .001
- F = .125” ± .002
- G = .188” ± .002
- H = .250” ± .003/-.002
- J = .313” ± .003/-.002
- K = .375” ± .003/-.002
- L = 1.0mm ± .03
- M = 1.56mm ± .03
- P = 2.0mm ± .03
- Q = 3.0mm ± .03
- R = 4.5mm ± .05
- S = 6.0mm ± .07/-.05
- T = 8.0mm ± .07/-.05
- V = 9.0mm ± .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”

**Junction**
Box 8
- Grounded
  - Single
  - Dual, common
  - Dual, isolated
- Ungrounded
  - U
  - 5
- Exposed
  - E
  - 6

**Connector Type**
Box 9
- Standard Plugs and Jacks
  - P = Standard Plug
  - J = Standard Jack
  - K = Standard Plug w/Mating Jack
- miniature Plugs and Jacks (.188” max O.D.)
  - D = Miniature Plug
  - E = Miniature Jack
  - F = Miniature Plug w/Mating Jack

**Connector Temp Rating**
Box 10
- S = Standard 350°F (177°C)
- H = High Temperature 500°F (260°C)
- U = Ultra-High Temperature 800°F (427°C)

**Pin Option**
Box 11
- H = Hollow pins—std.
- S = Solid pins
- O = For Jack Termination

**Optional Compression Fitting**
Box 12
- 1 = 1/8” NPT SS
- 2 = 1/4” NPT SS
- 3 = 1/2” NPT SS
- 4 = 1/8” NPT Brass
- 5 = 1/4” NPT Brass
- 6 = 1/2” NPT Brass
- 0 = None Required

**Special Requirements**
Box 13
- X = Specify
- 0 = None

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

(800) 323-6859 • Email: sales@tempco.com

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