MI Cable Thermocouple Assemblies

Temperature Sensing

Style MTA8 Connection Head with 1/2” NPT Nipple, Union, Nipple

Design Features
- Tempo’s connection heads are gasketed to seal against moisture, dust and corrosive or hostile atmospheres.
- Screw covers are attached to body with a plated chain.
- Covers have lugs for tightening or loosening with a screwdriver or wrench.
- Available in single (2-wire) or duplex (4-wire).
- Tempo’s connection heads are available in die cast aluminum, Bakelite and cast iron in a variety of sizes from miniature for confined areas to the large universal head designed for heavy process and industrial applications. See sensor accessories on pages 14-98 through 14-100 for complete information.
- Nipple-Union-Nipple is galvanized steel.

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

Ordering Code:

MTA8  1  2  3  4  5  6  7  8  9  10  11  12

Calibration Code  BOX 1
ANSI Standard  J  K  E  T  N  R  S  B
Tolerances  3  4  5  6  7

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
F = .125” ±.002
G = .188” ±.002
H = .250” +.003/–.002
J = .313” +.003/–.002
K = .375” +.003/–.002
Q = 3.0 mm ±.03
R = 4.5 mm ±.05
S = 6.0 mm +.07/–.05

Sheath Length “L1”  BOX 6
Whole inches
01 to 99
For lengths over 99 in. consult TEMPCO.

Sheath Length “L2”  BOX 7
Fractional inches
0 = 0”  1 = 1/8”  2 = 1/4”
3 = 3/8”  4 = 1/2”  5 = 5/8”
6 = 3/4”  7 = 7/8”

Junction  BOX 8
Grounded  G  U  E
Ungrounded  4  5  6
Exposed  7  8

Connection Head  BOX 9
A = Standard Size Aluminum  S = Stainless Steel
B = Medium Size Aluminum  F = Standard Bakelite
C = Miniature Aluminum  P = Polypropylene (FDA Approved)
H = Standard Cast Iron

Note: Conduit connection for A, F, H & S is 1/2” (3/4” is available); for B & C is 3/8”; and for P is 3/4” NPT.
For overall dimensions see pages 14-98 through 14-100.

“L2” Dimension (in.)  BOX 10
Nipple, Union, Nipple
Whole inches 03 to 99
Standard Lengths S1 = 3-1/2”, S2 = 6-1/2”, S3 = 12-1/2”

Spring-Loaded Probe  BOX 11
O = Not required
Y = Required

Special Requirements  BOX 12
X = Specify
0 = None

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

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