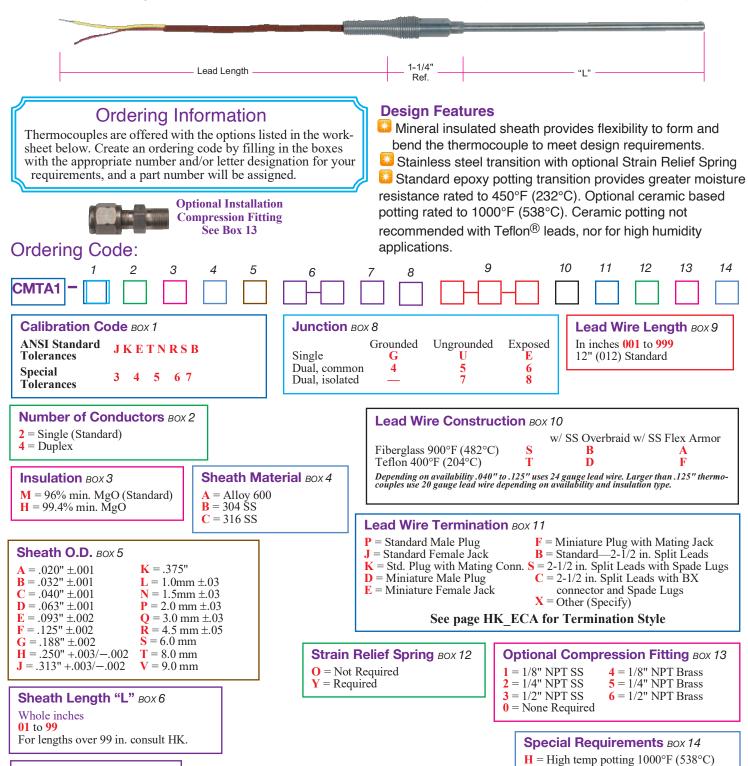


Style CMTA1 — Transition to Lead Wire (Custom Manufactured)



Sheath Length "L" BOX 7

3 = 3/8"

4 = 1/2"

5 = 5/8"

6 = 3/4"

7 = 7/8"

Fractional inches

0 = 0"

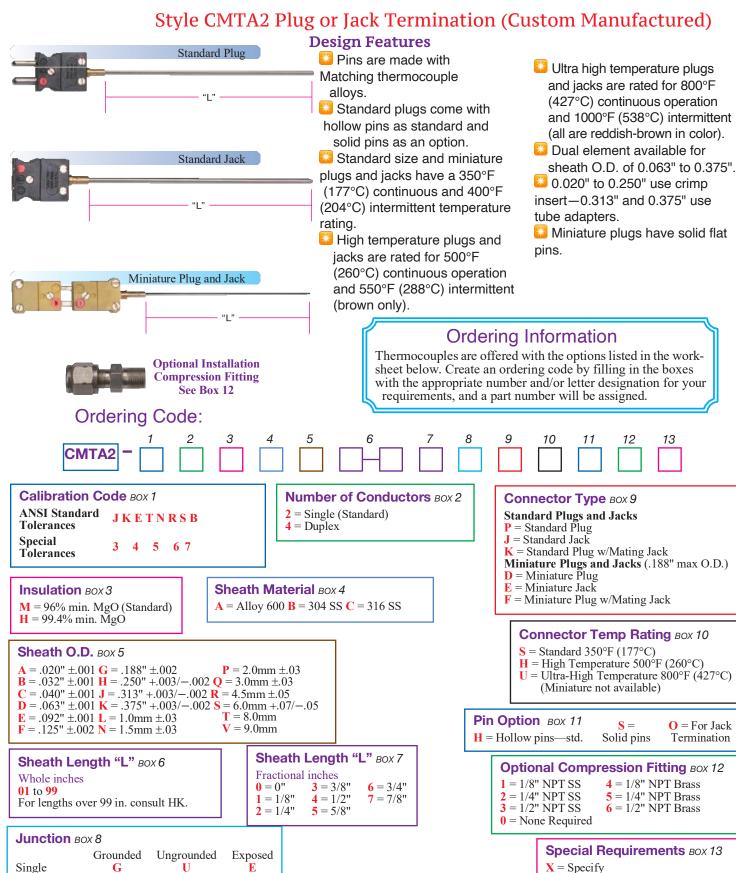
1 = 1/8"

2 = 1/4"

O = Standard Epoxy Potting 450°F (232°C)

X = Other (Specify)

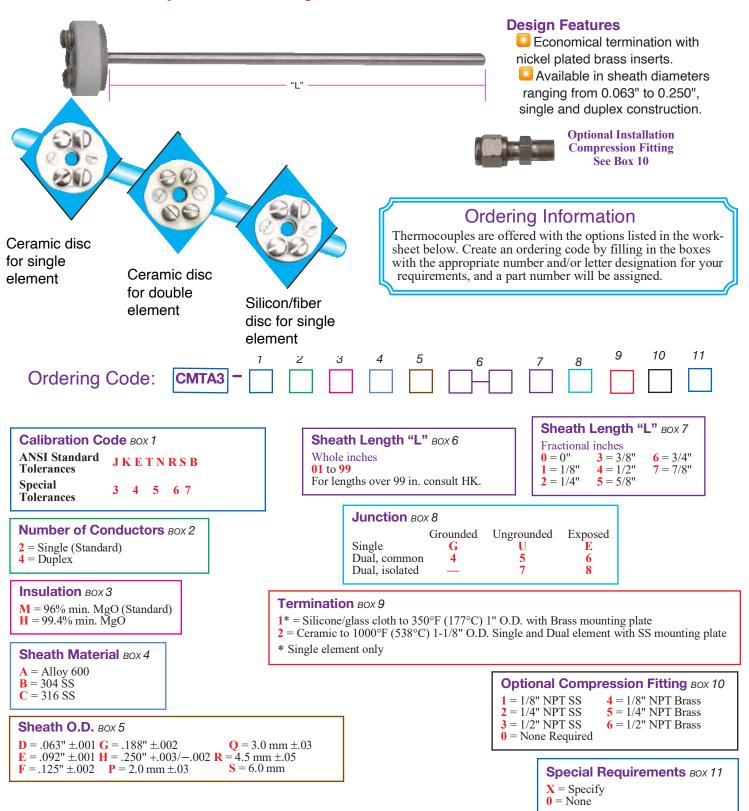




Dual, common Dual, isolated 0 = None

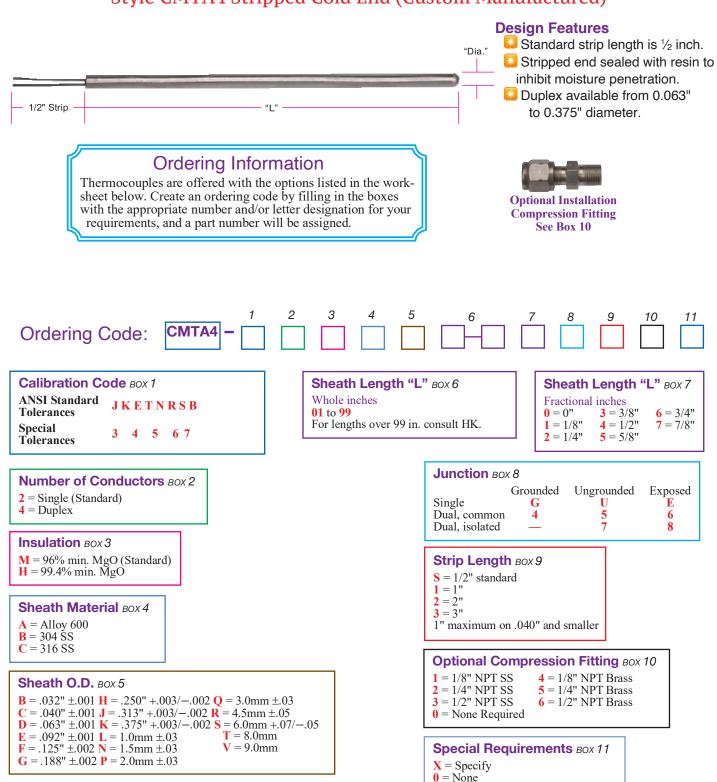


Style CMTA3 — Open Disc Termination





Style CMTA4 Stripped Cold End (Custom Manufactured)





Style CMTA5 — Connection Head



Design Features

- Lack to the 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).



Optional Installation See Box 10

HK's connection heads are available in die cast Compression Fitting 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.

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.

		_	_	•	6	•	•	_	
Ordering Code:	CMTA5								

Calibration Code BOX 1

ANSI Standard Tolerances

JKETNRSB

Special

Tolerances

3 4 5 6 7

Insulation BOX 3

M = 96% min. MgO (Standard)

 $\mathbf{H} = 99.4\% \text{ min. MgO}$

Number of Conductors BOX 2

2 = Single (Standard)

4 = Duplex

Sheath Material BOX 4

 $\mathbf{A} = \text{Alloy } 600$

 $\mathbf{B} = 304 \text{ SS}$

C = 316 SS

Sheath O.D. BOX 5

 $D = .063" \pm .001$ $F = .125" \pm .002$

 $P = 2.0 \text{ mm} \pm .03$ $Q = 3.0 \text{ mm} \pm .03$

 $G = .188" \pm .002$

H = .250" + .003/-.002 S = 6.0 mm + .07/-.05 J = .313" $R = 4.5 \text{ mm} \pm .05$

K = .375'

Sheath Length "L" BOX 6

Whole inches

01 to 99

For lengths over 99 in. consult HK.

Sheath Length "L" BOX 7

Fractional inches

0 = 0"

3 = 3/8" 6 = 3/4"

1 = 1/8" **2** = 1/4"

4 = 1/2" **7** = 7/8" **5** = 5/8"

Junction BOX 8

Grounded Ungrounded Exposed Single E Dual, common 6 Dual, isolated 8

Optional Compression Fitting BOX 10

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

Connection Head BOX 9

A = Standard Size Aluminum

 $\mathbf{B} = \text{Medium Size}$

F = Standard Bakelite P = Polypropylene

C = Miniature Aluminum
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"

Please refer to Pg. 7 for all types of head

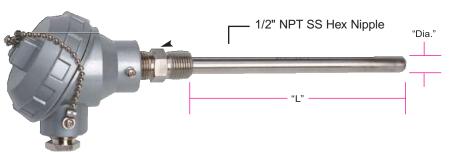
Special Requirements BOX 11

X = Specify

0 = None



Style CMTA6 (Custom Engineered/Manufactured)



Design Features

- 1/2" NPT Stainless Steel Process Connection.
- HK'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-
- IN HK'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.

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.

3 11 Ordering Code: CMTA6

Calibration Code BOX 1

ANSI Standard JKETNRSB **Tolerances**

Special Tolerances 3 4 5 6 7

Number of Conductors BOX 2

- 2 = Single (Standard)
- 4 = Duplex

Insulation BOX 3

M = 96% min. MgO (Standard)

 $\mathbf{H} = 99.4\% \text{ min. MgO}$

Sheath Material BOX 4

- $\mathbf{A} = \text{Alloy } 600$
- $\mathbf{B} = 304 \, \mathrm{SS}$
- C = 316 SS

Sheath O.D. BOX 5

 $D = .063'' \pm .001$

 $P = 2.0 \text{ mm} \pm .03$

 $F = .125" \pm .002$

 $0 = 3.0 \text{ mm} \pm .03$

 $G = .188" \pm .002$

 $R = 4.5 \text{ mm} \pm .05$

H = .250'' + .003/ - .002 S = 6.0 mm + .07/ - .05

J = .313"

K = .375"

Sheath Length "L" BOX 6

Whole inches

01 to 99

For lengths over 99 in. consult HK.

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	Ungrounded	Exposed
Single	G	U	\mathbf{E}
Dual, common	4	5	6
Dual, isolated	_	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"

Please refer to Pg. 7 for all types of head

Spring-Loaded Probe BOX 10

0 = Not required

 $\mathbf{Y} = \text{Required}$

Special Requirements BOX 11

X = Specify0 = None



Style CMTA7 Connection Head with 1/2" NPT Pipe Nipple



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.

Design Features

INCOMPAGE IN 18 IN against

moisture, dust and corrosive or hostile atmospheres.

- Screw covers are attached to body with a plated
- Covers have lugs for tightening or loosening with a screwdriver or wrench.
- Available in single (2-wire) or duplex (4-wire).
- HK'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.
- Pipe nipple is galvanized steel.

Ordering Code:

1	2	3	4	5	6	7	8	9	10	11	12
CMTA7 -											

Calibration Code BOX 1

ANSI Standard J K E T N R S B

Tolerances

Special 34567 Tolerances

Junction BOX 8

Dual, isolated

Grounded Ungrounded Exposed Single G E Dual, common 5 7 6 4

Number of Conductors BOX 2

2 = Single (Standard)

4 = Duplex

Insulation BOX 3

M = 96% min. MgO (Standard)

 $\mathbf{H} = 99.4\% \text{ min. MgO}$

Connection Head BOX 9

A = Standard Size Aluminum

 $\mathbf{B} = \text{Medium Size}$

S = Stainless Steel **F** = Standard Bakelite

"L2" 1/2" NPT Nipple Length BOX 10

0 = Not required

Y = Required

Standard Lengths S1 = 1", S2 = 2-1/2", S3 = 5-1/2"

C = Miniature

P = Polypropylene (FDA Approved)

8

H = Standard Cast Iron

Note: Conduit connection for A, F, H & S is 1/2" (3/4" is available);

For lengths over 99 in. consult HK.

Whole inches 00 to 99

for B & C is 3/8"; and for P is 3/4"

Please refer to Pg. 2 for all types of head

Sheath Material BOX 4

 $\mathbf{A} = \text{Alloy } 600$

 $\mathbf{B} = 304 \text{ SS}$

C = 316 SS

Sheath O.D. BOX 5

 $\mathbf{F} = .125'' \pm .002$

 $Q = 3.0 \text{ mm} \pm .03$

 $G = .188'' \pm .002$

 $\mathbf{R} = 4.5 \text{ mm} \pm .05$

H = .250'' + .003/ - .002 S = 6.0 mm + .07/ - .05

J = .313"

K = .375"

Sheath Length "L1" BOX 6

Whole inches

01 to 99

For lengths over 99 in. consult HK.

0 = 0" 1 = 1/8" 4 = 1/2"

2 = 1/4" 5 = 5/8"

Sheath Length "L1" BOX 7

Fractional inches

6 = 3/4" 7 = 7/8"

3 = 3/8"

Special Requirements BOX 12

Spring-Loaded Probe BOX 11

X = Specify

 $0 = \hat{\text{None}}$



Style CMTA8 Connection Head with 1/2" NPT Nipple, Union, Nipple



Design Features

- HK's connection heads are gasketed to seal against moisture, dust and corrosive or hostile atmospheres.
- Screw covers are attached to body with a plated
- Covers have lugs for tightening or loosening with a screwdriver or wrench.
- Available in single (2-wire) or duplex (4-wire).
- HK'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.
- 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 boxes with the appropriate number and/or letter designation for your requirements, and a part number will be assigned.

Ordering Code:

	1	2	3	4	5	6	7	8	9	10	11	12
CMTA8												

Calibration Code BOX 1

ANSI Standard J K E T N R S B **Tolerances**

Special **Tolerances**

34567

Number of Conductors BOX 2

- 2 = Single (Standard)
- 4 = Duplex

Insulation BOX 3

M = 96% min. MgO (Standard)

 $\mathbf{H} = 99.4\% \text{ min. MgO}$

Sheath Material BOX 4

- $\mathbf{A} = \text{Alloy } 600$
- B = 304 SS
- C = 316 SS

Sheath O.D. BOX 5

 $\mathbf{F} = .125'' \pm .002$

 $Q = 3.0 \text{ mm} \pm .03$ $G = .188" \pm .002$ $R = 4.5 \text{ mm} \pm .05$

H = .250'' + .003/ - .002 S = 6.0 mm + .07/ - .05

J = .313" K = .375"

Sheath Length "L1" BOX 6

Whole Inches

01 to 99

For lengths over 99 in. consult HK

Junction BOX 8

I		Grounded	Ungrounded	Exposed
I	Single	\mathbf{G}	U	Ê
I	Dual, common	4	5	6
I	Dual, isolated		7	8

Connection Head BOX 9

A = Standard Size Aluminum

B = Medium Size Aluminum

C = Miniature Aluminum

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"

Please refer to Pg. 2 for all types of head

"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"

S = Stainless Steel

F = Standard Bakelite

P = Polypropylene (FDA Approved)

Spring-Loaded Probe BOX 11

O = Not required Y = Required

Special Requirements BOX 12

X = Specify

 $0 = \hat{\text{None}}$

Sheath Length "L1" BOX 7 Fractional Inches

3 = 3/8" 6 = 3/4" 0 = 0" **4** = 1/2" **7** = 7/8" 1 = 1/8"

onnection Head(Temperature Sensor Enclosure)



Mini Head 1



Mini Head 2



Mini Head 3



Plastic Head



Small Bakelite Head











Weather Proof Head Weather Proof Head(BIG) Hinge Type Head

Imported Head 1

Imported Head 2



Imported Head 3



Imported Head 4



Flame Proof Head 1



Flame Proof Head 2 (II C APPROVED)



IP-65 HEAD



SS Head



SS Head (SMALL)



Stainless Steel(SS) Head 1



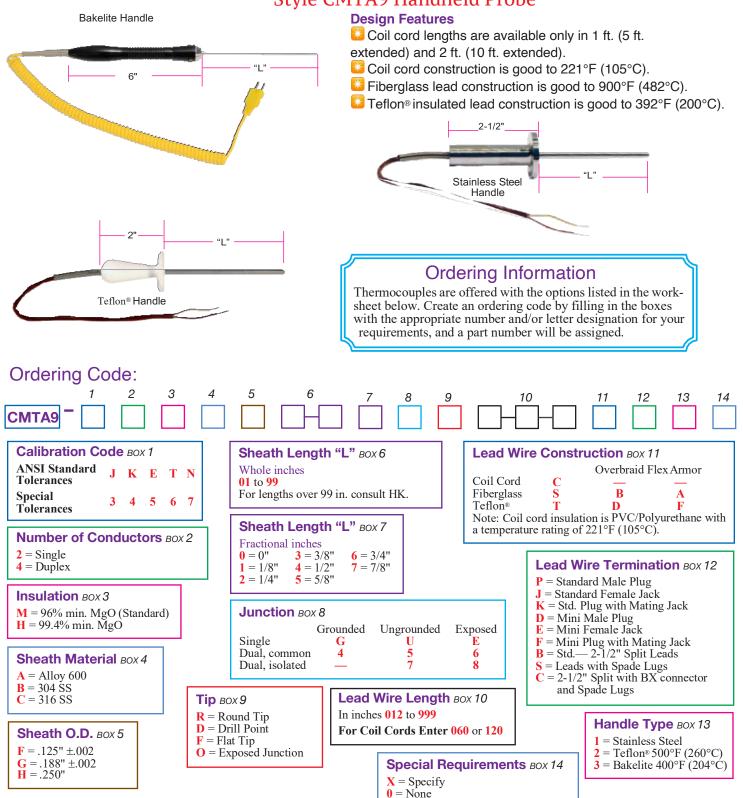
Stainless Steel(SS) KNE Type Head Head 2



Contact: +91-22-26773837 Telefax: +91-22-66954779 Mobile: +91-9967642914



Style CMTA9 Handheld Probe



For more HK Handle probe designs please refer to Page 2 and 3



THERMOCOUPLE, RTD & M.I. HANDLE PROBES

GENERAL SPECIFICATIONS :-

- All portable handle probes available with black powder coated aluminium Handle or red anodized aluminium handle & cover or abonite handle.
- Some probes have PVC cap to cover the sensor entierly for safe storage.
- All probes come with an end spring which act as a strain relief for the cable.
- All probes come with an extension cable (original grade condoucter cable) pvc/pvc or teflon/teflon or compensating grade cable pvc/pvc.
- For end connection minature or standard plug or 3 pin plug or single pin RF plug or only flying leads.
- Special design can be developed based on application.



Application: Instant temperature measurement of small object surface like electronic componants etc.

MAX. OPERATING TEMPERATURE: 400°C



AVILABLE CABLES

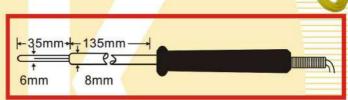


PVC/PVC(O) PVC/PVC (O) COIL ED

AVILABLE **TERMINATIONS** Flying leads 3 Pin plug Single pin RF plug

Standard plug

LEAF PROBE



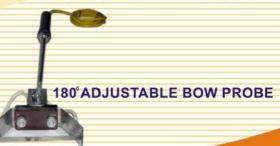
Application: Widely used Probe for flat surface temperature measurement like Hot Plates, Moulds etc.

MAX. OPERATING TEMPERATURE: 600°C



Application: Suitable for measurement of curved convex surface like Rollers, Bearing etc.

MAX. OPERATING TEMPERATURE: 800°C



HK TEMPSENSORS (INDIA)

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