

MARSHALL THERMOCOUPLES™ MT



MARSHALL THERMOCOUPLE™

The L.H. Marshall Company invented and patented the enclosed tip Thermocouple™ over 80 years ago. Over 10 million Marshall Thermocouples have been sold worldwide for precision temperature measurement. Marshall Thermocouples are reusable, durable, accurate and are a quality product engineered to meet the industry standards for temperature measurement of molten metals.

Scientific research and development at one of America's leading research facilities has led to innovations in steel composition of the Marshall protection tubes resulting in the longest lasting, multiuse thermocouple in the industry.

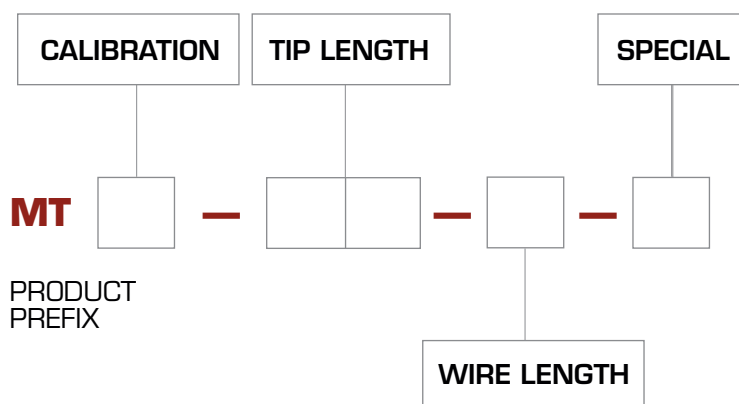
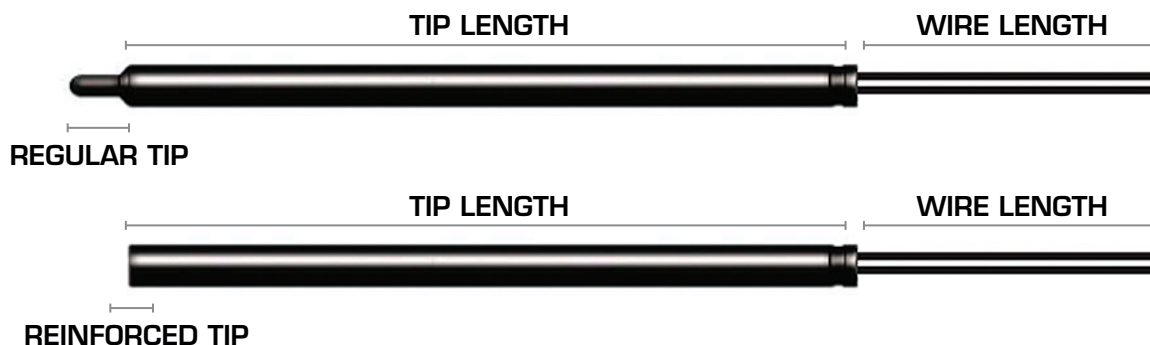
All Marshall Thermocouples are manufactured with Class 1, Special Limits wire which meet and exceed international quality standards of ANSI MC96.1 and IEC 584. Custom Marshall Thermocouples can be made to accommodate any range of industrial need while maintaining superior quality. Calibration certificates are available on Marshall Thermocouples and all products produced by the L.H. Marshall Company are 100% guaranteed.

MARSHALL THERMOCOUPLE™—MT



ORDERING INFORMATION

Fill in each Ordering Number box with the appropriate specification code. This series of numbers and letters will form the final Ordering Number.



CALIBRATION	TIP LENGTH	WIRE LENGTH	SPECIAL
K - Type K	8 - 8" / 203 mm	6 - 6" / 152 mm - Standard	R - Reinforced
J - Type J	12 - 12" / 304 mm	" " - Other in Inches	Blank - Regular Tip
N - Type N	15 - 15" / 381 mm		U - Ungrounded
KK - Type K Dual Element	18 - 18" / 457 mm		Plug - Plug
JJ - Type J Dual Element	20 - 20" / 508 mm		Jack - Jack
NN - Type N Dual Element	24 - 24" / 610 mm		Plug & Jack - Plug attached, Jack supplied
	30 - 30" / 762 mm		Jack & Plug - Jack attached, Plug supplied

EXAMPLE PART NUMBER

Marshall MT thermocouple that is 15" long with the standard 6" of bare lead wires

MT **K** — **1** **5** — **6** —

MARSHALL THERMOCOUPLE™—MT



MT TYPE K

PART #, 6" BARE LEAD	TIP LENGTH	WIRE LENGTH
MTK-8-6	8 inches	6 inches
MTK-12-6	12 inches	6 inches
MTK-15-6	15 inches	6 inches
MTK-18-6	18 inches	6 inches
MTK-20-6	20 inches	6 inches
MTK-24-6	24 inches	6 inches
MTK-30-6	30 inches	6 inches
MTK-36-6	36 inches	6 inches

MT TYPE J

PART #, 6" BARE LEAD	TIP LENGTH	WIRE LENGTH
MTJ-8-6	8 inches	6 inches
MTJ-12-6	12 inches	6 inches
MTJ-15-6	15 inches	6 inches
MTJ-18-6	18 inches	6 inches
MTJ-20-6	20 inches	6 inches
MTJ-24-6	24 inches	6 inches
MTJ-30-6	30 inches	6 inches
MTJ-36-6	36 inches	6 inches

MT TYPE K DUAL ELEMENT

PART #, 6" BARE LEAD	TIP LENGTH	WIRE LENGTH
MTKK-8-6	8 inches	6 inches
MTKK-12-6	12 inches	6 inches
MTKK-J15-6	15 inches	6 inches
MTKK-18-6	18 inches	6 inches
MTKK-20-6	20 inches	6 inches
MTKK-24-6	24 inches	6 inches
MTKK-30-6	30 inches	6 inches
MTKK-36-6	36 inches	6 inches

MT TYPE J DUAL ELEMENT

PART #, 6" BARE LEAD	TIP LENGTH	WIRE LENGTH
MTJJ-8-6	8 inches	6 inches
MTJJ-12-6	12 inches	6 inches
MTJJ-15-6	15 inches	6 inches
MTJJ-18-6	18 inches	6 inches
MTJJ-20-6	20 inches	6 inches
MTJJ-24-6	24 inches	6 inches
MTJJ-30-6	30 inches	6 inches
MTJJ-36-6	36 inches	6 inches

MARSHALL THERMOCOUPLE™—MT REINFORCED TIP



MT TYPE K

PART #, 6" BARE LEAD	TIP LENGTH	WIRE LENGTH
MTK-8-6-R	8 inches	6 inches
MTK-12-6-R	12 inches	6 inches
MTK-15-6-R	15 inches	6 inches
MTK-18-6-R	18 inches	6 inches
MTK-20-6-R	20 inches	6 inches
MTK-24-6-R	24 inches	6 inches
MTK-30-6-R	30 inches	6 inches
MTK-36-6-R	36 inches	6 inches

MT TYPE J

PART #, 6" BARE LEAD	TIP LENGTH	WIRE LENGTH
MTJ-8-6-R	8 inches	6 inches
MTJ-12-6-R	12 inches	6 inches
MTJ-15-6-R	15 inches	6 inches
MTJ-18-6-R	18 inches	6 inches
MTJ-20-6-R	20 inches	6 inches
MTJ-24-6-R	24 inches	6 inches
MTJ-30-6-R	30 inches	6 inches
MTJ-36-6-R	36 inches	6 inches

MT TYPE K DUAL ELEMENT

PART #, 6" BARE LEAD	TIP LENGTH	WIRE LENGTH
MTKK-8-6-R	8 inches	6 inches
MTKK-12-6-R	12 inches	6 inches
MTKK-J15-6-R	15 inches	6 inches
MTKK-18-6-R	18 inches	6 inches
MTKK-20-6-R	20 inches	6 inches
MTKK-24-6-R	24 inches	6 inches
MTKK-30-6-R	30 inches	6 inches
MTKK-36-6-R	36 inches	6 inches

MT TYPE J DUAL ELEMENT

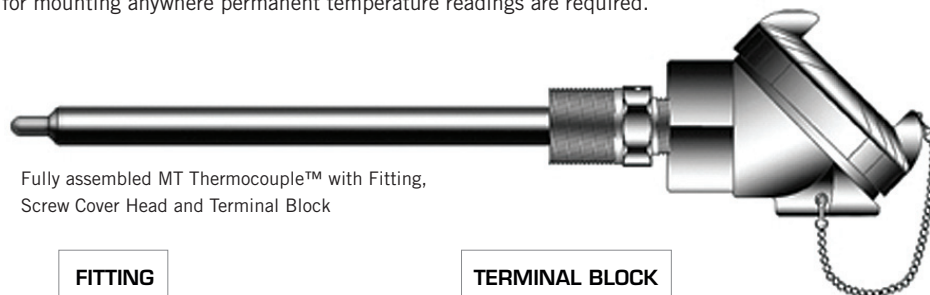
PART #, 6" BARE LEAD	TIP LENGTH	WIRE LENGTH
MTJJ-8-6-R	8 inches	6 inches
MTJJ-12-6-R	12 inches	6 inches
MTJJ-15-6-R	15 inches	6 inches
MTJJ-18-6-R	18 inches	6 inches
MTJJ-20-6-R	20 inches	6 inches
MTJJ-24-6-R	24 inches	6 inches
MTJJ-30-6-R	30 inches	6 inches
MTJJ-36-6-R	36 inches	6 inches

MARSHALL MT THERMOCOUPLE™ ASSEMBLIES

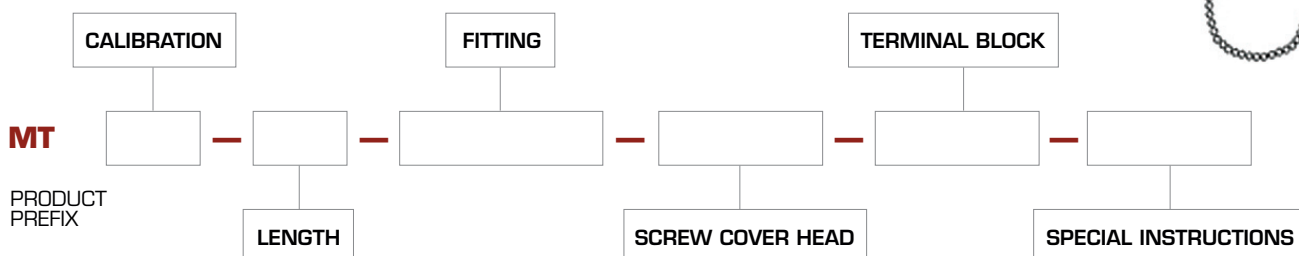


ORDERING INFORMATION

L.H. Marshall Company manufactures the MT™ thermocouple which can be assembled with a threaded fitting, head and terminal block. These MT™ thermocouples are excellent for mounting anywhere permanent temperature readings are required.



Fully assembled MT Thermocouple™ with Fitting,
Screw Cover Head and Terminal Block



CALIBRATION	LENGTH	FITTING	GENERAL PURPOSE & SCREW COVER HEADS	TERMINAL BLOCK	SPECIAL
K - Type K J - Type J N - Type N KK - Type K Dual Element JJ - Type J Dual Element NN - Type N0 Dual Element	8 inches 12 inches 15 inches 18 inches 20 inches 24 inches 30 inches 36 inches	1212 - 0.50" x 0.50" 3434 - 0.75" x 0.75" 1234 - 0.50" x 0.70"	GENERAL PURPOSE HEADS GPH1 (0.50" NPT) GPH2 (0.75" NPT) GPH3 (1.00" NPT) SCREW COVER HEADS SCH1 (0.50" NPT) SCH2 (0.75" NPT) SCH3 (1.00" NPT)	GTB - Terminal Block for General Purpose Head STB - Terminal Block for Screw Cover Head DUAL ELEMENT GTBB STBB	Blank - None

TERMINAL BLOCKS AND HEADS

TERMINAL BLOCKS

GTB - Terminal Block for General Purpose Head
STB - Terminal Block for Screw Cover Head
GTBB - Dual Element Terminal Block for General Purpose Head
STBB - Dual Element Terminal Block for Screw Cover Head

GENERAL PURPOSE HEADS

GPH1 (0.50" NPT)
GPH2 (0.75" NPT)
GPH3 (1.00" NPT)

SCREW COVER HEADS

SCH1 (0.50" NPT)
SCH2 (0.75" NPT)
SCH3 (1.00" NPT)

FITTINGS

1212 - Hex Pipe Nipple 0.50" x 0.50" CAT
3434 - Hex Pipe Nipple 0.75" x 0.75" CAT
1234 - Hex Pipe Nipple 0.50" x 0.75" CAT



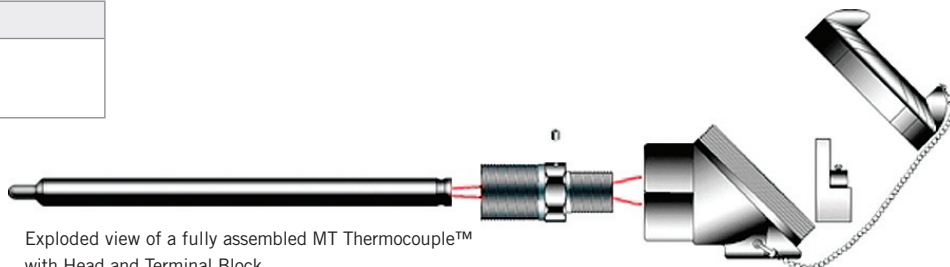
General Purpose Head



Screw Cover Head



Fitting



Exploded view of a fully assembled MT Thermocouple™
with Head and Terminal Block