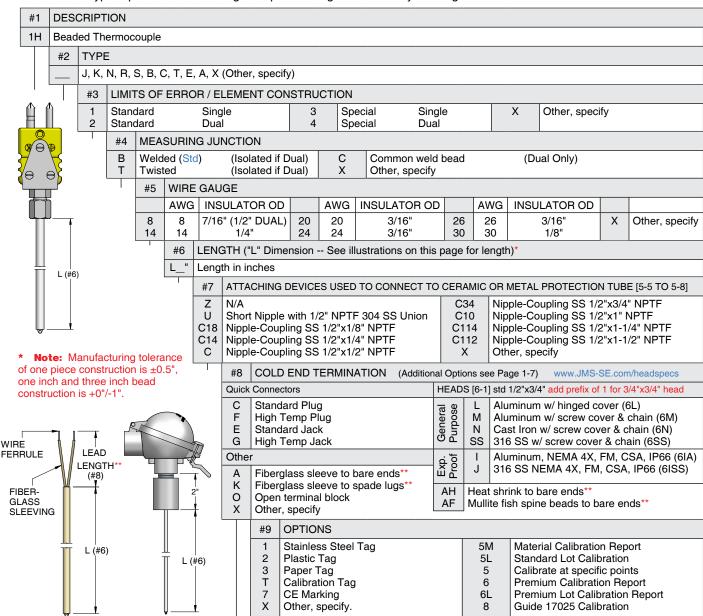
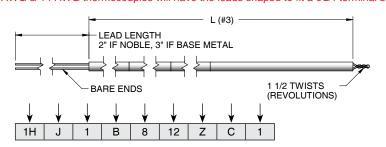
## **BEADED THERMOCOUPLES**

Beaded thermocouples are most common in furnace, heat treating and other high temperature applications. Noble Metal Thermocouples (Types R, S, B) and Refractory Thermocouples (Types C & A) incorporate an alumina bead to avoid contamination of the wire. Base Metal Thermocouples (Types J, K, N, E, T and L) are constructed with mullite beads or alumina where the upgrade is more readily available. Smaller AWG thermocouples (20 AWG, 24, AWG, 26 AWG and 30 AWG) are usually built with a single piece insulator. Larger AWG base metal thermocouples (8 AWG, 14 AWG, 20 AWG) are constructed with 1" to 3" long mullite beads that are either oval or rounded. Heads and attaching devices will be shipped unassembled to the thermocouple unless assembled to a protection tube to avoid breakage in shipment. Must have attaching device and process connection to ship assembled to heads and protection tubes. See Section 5 for typical protection tube designs. Special designs available by drawing.



\*\* Note: Bare ends will be 2" with wire ferrule if noble (Type R, S, B) 2" if refractory (Type C, A) thermocouples and 3" if base metal (J, K, N, T, E, L) thermocouples. Dual 8 AWG & 14 AWG thermocouples will have the leads shaped to fit a 6G4 terminal block.





WELDED DUAL JUNCTION (W, Option #4, Standard)



DUAL COMMON JUNCTION (C, Option #4)



DUAL TWISTED JUNCTION (T, Option #4)

## ADDITIONAL TERMINATIONS

0015			(1140)
	END TERMINATION [SEE SECTION 6	6] Choose as many as applicable	e (JMS part number prefixes are shown in parenthesis)
Connect			Lastra
B BH C F WM WA WC WE WH WJ WL V Y WQ WS Heads	Plugs Miniature plug (6A1B) Miniature high temperature plug (6A1C) Standard plug (6A1C) Standard high temperature plug (6AMicrophone style plug (6DA) Solid pin plug, heavy duty (6A3C) Jab in plug (6A4C) Ultra high temperature plug, glazed Ultra high temperature plug, unglaz Low noise plug (6A6C) <425°F DIN-IEC microphone plug (6DB) Molded/water resistant plug (6DC) M12 Male connector (6DY) Miniature locking plug (6A8B2) Standard plug, locking (6A8C2)  [6–1] Visit www.JMS-SE.com/headspe	A2C) <800°F I (6A5C) <1200°F led (6A7C) <1200°F CS 8 (6IA)	D Miniature jack (6A1D)  DH Miniature high temperature jack (6A2D) <800°F  E Standard jack (6A1E)  G Standard high temperature jack (6A2E) <800°F  WF Microphone style jack (6DA)  WB Solid pin jack, heavy duty (6A3E)  WD Jab in jack (6A4E)  WG Ultra high temperature jack, glazed (6A5E) <1200°F  WI Ultra high temperature jack, unglazed (6A7E) <1200°F  WK Low noise jack (6A6E) <425°F  WN DIN-IEC microphone style jack (6DB)  VF Molded/water resistant jack (6DC)  YF M12 Female connector (6DY)  WR Miniature locking jack (6AIDL2)  WT Standard jack, locking (6A8E2)
P	Aluminum, NEMA 4X, FM, CSA, ATEX, IECEx, IP68 (6IAIEC)		
U SI	316 stainless steel, NEMA 4X, ATEX, IP68 (6ISSATEX) Cast Iron, NEMA 3, 4, UL, CSA (6I)		
GA	Aluminum, screw cover w/ indicating window, NEMA 4X, ATEX, IECEx, FM, CSA, IP68 (688A1)		
GS	316SS, screw cover w/ indicating window, NEMA 4X, ATEX, IECEx, FM, CSA, IP68 (688S1)		
L M R N Q SS WP SB SD SC ST SU	General Purpose Aluminum w/ hinged cover (6L) Aluminum w/ screw cover & chain (6M) Aluminum w/ hinged high dome cover (6R) Cast Iron w/ screw cover (6N) Black plastic (6Q) 316 stainless steel w/ screw cover & chain (6SS) White plastic, screw cover, Sanitary (6WP) Nickel plated, cylinder style, 1/4" NPT (6S250) Nickel plated, cylinder style, 1/8" NPT (6S125) Stainless steel, socket cap style Molded plastic, mini head, 1/4" NPT, < 350F (6T) Molded plastic, mini head, 1/4" NPT, < 800F (6U)  * L is the overall length of the sensor to the base of the head when no attaching device is selected. Page 1-1, selection #7 for T/Cs or 3-1, selection #6 for RTDs.		
Transmitters [ 8-1 to 8-3 ]  Notes:  - Add span range after transmitter selection. Example: 8H(0-200C) Transmitter output = 4 - 20 mA. (See section 8 for other options).			
8H 8N 8I 8E 8D 8M	Isolated transmitter Non-isolated transmitter Hart Protocol Intrinsically safe Hart/Intrinsically safe Integral transmitter (see page 3-5)	glass viewing window, touch pr Explosion proof, IP66/IP68, NE glass viewing window, touch pr	EMA 4X, ATEX/IECEx, FM/CSA, 316 SS, threaded cap with
Other	Barrante		
A K RL O OA OB OP OS CG TB X	Bare ends Spade lugs (6SL) Ring lugs (6RL) Open ceramic terminal block, brass screw terminal (6B) Open Bakelite terminal block, nickel plated screw terminal (6BB) Open ceramic terminal block for sensors with bayonet style connection, brass screw terminal (6B or 6C) Ceramic terminal block, brass screw terminal (6G) Pluggable polymide terminal block, nickel plated screw terminal (6C) Open ceramic terminal block, nickel plated sorew terminal (6C) Cord connector/grip, aluminum 1/2" NPT (6CC) Conduit bushing, 3/4" NPT male X 1/2" NPT female, plated steel (6IRB) Other, specify  *L is the overall length of the sensor to the base of the terminal block mounting plate when open terminal block cold end termination is selected without a fixed attaching device. Page 1-1, selection #7 for T/Cs or 3-1, selection #6 for RTDs.		