

MELT-BOLT THERMOCOUPLES

- Alloy C-276 Tip
- Chemical Resistant
- Maximum Temperature of 900 °F
- Single or Dual Thermocouple Elements
- For use in Teflon®

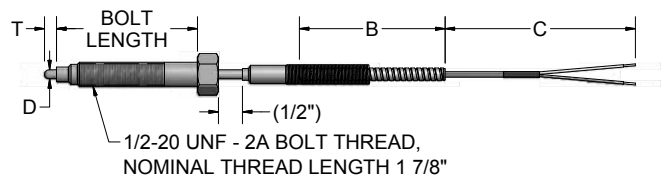
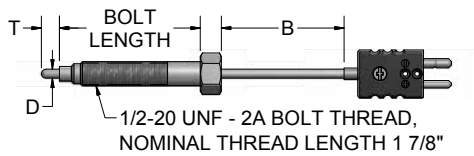


Melt-Bolt sensors are designed to mount directly into extruder heads or into the injection molding machine nozzle with the tip protruding directly into the Teflon® melt. Sensing the temperature of Teflon® is especially difficult due to the elevated temperatures and corrosive conditions found in that environment. Immersion lengths, lead wire options, and wire terminations are available in a wide range of possible configurations. The melt bolt tip is manufactured of Alloy C-276 with the balance of the bolt made of 316 Stainless Steel.

ALLOY C-276 TIP MELT-BOLT THERMOCOUPLES

Configuration Code HC01 Thermocouple Assemblies

The melt-bolt sensor is typically a type "J" thermocouple. This sensor is constructed of an Alloy C-276 tip and a 316 Stainless Steel free spinning melt bolt. The Alloy C-276 tip is designed to withstand the corrosive conditions and increased pressures of Teflon® melt. Grounded junctions are supplied as a standard unless otherwise specified.



Example Order Numbers:

1-0 1-1 2-0 3-0 4-0 or 1-0 2-0 3-1 5-0 5-0 6-0
JHCMB26 U - 04 - 000 - 4 or **JHCMB33 - 00 - 15 - F3A072 - 012 - 2**

1-0 MELT BOLT TYPES AND LENGTHS

CODE		DESCRIPTION	
SINGLE	DUPLEX	TIP DIAMETER	BOLT LENGTH
JHCMB23	JJHCMB23	1/8 Inch	3 Inch
JHCMB24	JJHCMB24	1/8 Inch	4 Inch
JHCMB26	JJHCMB26	1/8 Inch	6 Inch
JHCMB33	JJHCMB33	3/16 Inch	3 Inch
JHCMB34	JJHCMB34	3/16 Inch	4 Inch
JHCMB36	JJHCMB36	3/16 Inch	6 Inch

For Type E, K or T thermocouples, replace J in order code with required letter designation.

1-1 JUNCTION

Grounded Junctions are supplied as standard. For Ungrounded Junction specify "U" only when Ungrounded Junctions are required.

2-0 TIP LENGTH

CODE	"T" TIP LENGTH	CODE	"T" TIP LENGTH
00	Flush	04	1/4"
02	1/8"	06	3/8"

3-0 MGD SHEATH "B" DIMENSION

CODE ⁽¹⁾	DESCRIPTION
000	Connector 1/2" from bolt
---	Insert "B" in inches using 3 digits

⁽¹⁾ Requires table 4-0 selection

4-0 SHEATH TERMINATIONS AND OPTIONS

CODE	DESCRIPTION
4	Standard plug
5	Standard jack
6	Miniature plug
7	Miniature jack
OPTIONS	
MC	Mating connector
CL	Compression L bracket to secure connector to sheath

3-1 LEADWIRE TRANSITIONS

CODE ⁽¹⁾	DESCRIPTION
15	Extension leadwire transition with relief spring 204 °C [400 °F]
16	Extension leadwire transition with heat shrink 104 °C [220 °F]

⁽¹⁾ Requires Table 5-0 and Table 6-0 selections

5-0 EXTENSION LEADWIRE TYPE

CODE	DESCRIPTION
F1	Fiberglass insulation - Solid conductor
F1A	Fiberglass insulation - Solid conductor - Flexible armor
F1B	Fiberglass insulation - Solid conductor - Stainless steel overbraid
F3	Fiberglass insulation - Stranded conductor
F3A	Fiberglass insulation - Stranded conductor - Flexible armor
F3B	Fiberglass insulation - Stranded conductor - Stainless steel overbraid
T1	Teflon® insulaton - Solid conductor
T1A	Teflon® insulaton - Solid conductor - Flexible armor
T3	Teflon® insulaton - Stranded conductor
T3A	Teflon® insulaton - Stranded conductor - Flexible armor

Insert 3 digit "B" length in inches. Example - F1B036 = 36 inch "B" length. For assemblies requiring other than the standard 6 inch "C" dimension, insert a 3 digit "C" length in inches after "B" dimension. Example - F1A036-012 = 36 inch "B" length with additional 12 inch leads beyond the armor.

6-0 WIRE TERMINATIONS AND OPTIONS

CODE	DESCRIPTION
2	2" split leads, 1/4" stripped
3	2" split leads with spade lugs
4	Standard plug
5	Standard jack
6	Miniature plug
7	Miniature jack
OPTIONS	
MC	Mating connector
CC	Cable clamp

Teflon® is a registered trademark of E.I. duPont de Nemours and Company.



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