

# Thermocouple Contacts For Model MTC Connectors Economical Design HPC Series

- ✓ Crimp-Type Attachment
- ✓ Contacts Are Color-Coded
- ✓ Accessories Available
- ✓ Hollow Pin Construction
- ✓ 20 to 24 AWG Stranded Wire

NEWPORT® push-in crimp-style contacts are manufactured from thermocouple alloy materials and are color-coded for easy identification. Contacts are crimp-terminated outside the connector assembly and inserted into the appropriate cavity by means of an insertion tool. They can be readily removed from the connector assembly using a special removal tool. Sealing plugs are available to seal unused positions in lieu of pin or socket.

### Important Notes

1. MS Standard Assembly Tools are required to crimp and assemble connectors properly. Order with first purchase.
2. Match pins and sockets to thermocouple alloys—Example: A 12-cavity connector carries 6 thermocouple circuits (pairs) requiring: 6 positive alloy pins or sockets and 6 negative alloy pins or sockets per body.
3. Order bodies in mating pairs. Style MC mates with both style FF and style FC.
4. Backshell cable clamps are recommended with each cord style connector.

### To Order

Specify Connector Body, Contacts and Backshell (See Note 1).

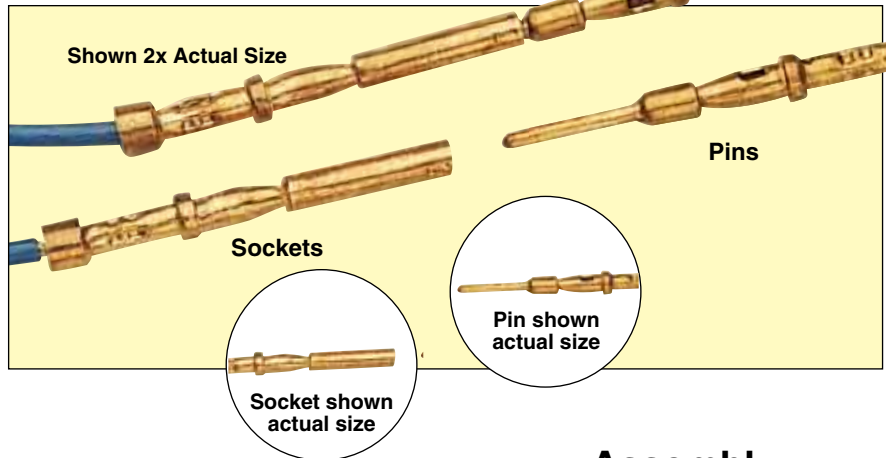
Example: Cord-to-Cord connectors for 6 type J (Iron-Constantan) thermocouple circuits (pairs).

Male Connector Assembly

1. Body: **MTC-12-MC**
2. Pins:
  - (+) Pos. Alloy, **HPC-IR-P**, 1 pkg. (6 required)
  - (-) Neg. Alloy, **HPC-CO-P**, 1 pkg. (6 required)
3. Backshell: **MTC-12-SHL**

Female Connector Assembly

1. Body: **MTC-12-FC**
2. Sockets:
  - (+) Pos. Alloy, **HPC-IR-S**, 1 pkg. (6 required)
  - (-) Neg. Alloy, **HPC-CO-S**, 1 pkg. (6 required)
3. Backshell: **MTC-12-SHL**



Material	Thermocouple Type (ANSI Symbol)
Iron/Constantan	J
CHROMEKA®/ALOMEGA®	K
Copper/Constantan	T
CHROMEKA®/Constantan	E



**MTC-CT, heavy duty crimping tool, shown smaller than actual size.**

### Assembly Tools



**Insertion Tool MTC-IT**

**Removal Tool MTC-RT**

**Ratchet Action Easy-to-Use!**  
Specially designed MS standard crimping tool **MUST** be used to crimp wires to pins and sockets properly. Ratchet action ensures a complete crimp every time.

Discount Schedule	
1-10 .....	<b>Net</b>
11-24 .....	<b>10%</b>
25-49 .....	<b>15%</b>
50-99 .....	<b>20%</b>
100 and over.....	<b>25%</b>

### Thermocouple Alloy and Gold-Plated Copper Contacts for Multipin Connectors

<b>To Order visit <a href="http://newportUS.com/HPC">newportUS.com/HPC</a> for Pricing and Details</b>			
Alloy Type	Coding Color Letter	Pins (Male)	Sockets (Female)
Iron (+)	BLK M	<b>HPC-IR-P</b>	<b>HPC-IR-S</b>
Constantan (-)	YEL N	<b>HPC-CO-P</b>	<b>HPC-CO-S</b>
Copper (+)	RED C	<b>HPC-CU-P</b>	<b>HPC-CU-S</b>
CHROMEKA® (+)	WHT P	<b>HPC-CH-P</b>	<b>HPC-CH-S</b>
ALOMEGA® (-)	GRN R	<b>HPC-AL-P</b>	<b>HPC-AL-S</b>
*Gold-Plated (Uncompensated)	Color Bands†	<b>HPC-AU-P</b>	<b>HPC-AU-S</b>

Sealing plugs, model no. **MTC-HP**.

\* For use with non-thermocouple wire in same body.

Grommets available. Consult Sales Department for price and delivery.

† Pins have red, yellow and brown color bars; sockets have red, blue and black color bars.