

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

OMEGA® 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

- MS Standard Assembly Tools are required to crimp and assemble connectors properly. Order with first purchase.
- 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.
- Order bodies in mating pairs. Style MC mates with both style FF and style FC.
- Backshell cable clamps are recommended with each cord style connector.

To Order

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

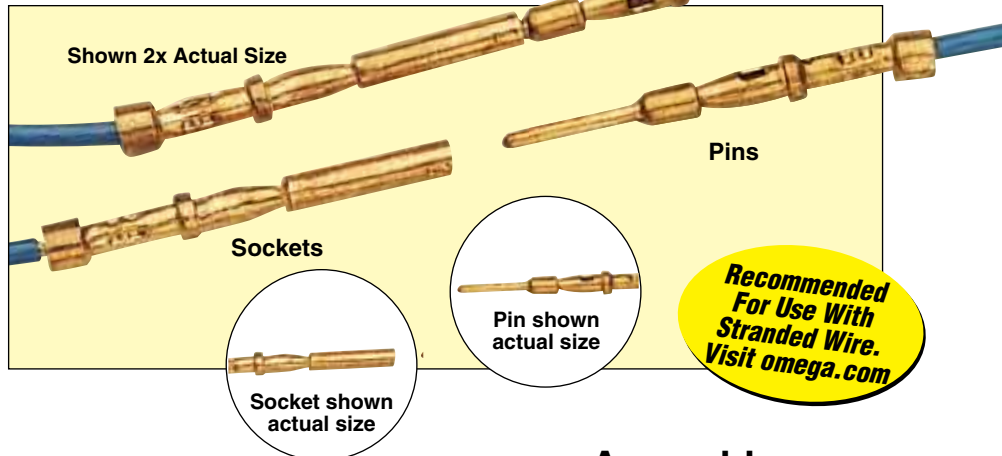
Example: Cord-to-Cord connectors for 6 type J (Iron-Constantan) thermocouple circuits (pairs).

Male Connector Assembly

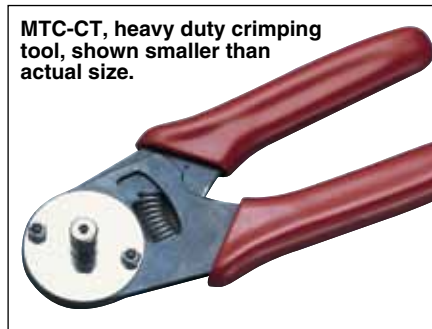
- Body: **MTC-12-MC**
- Pins:
 - (+) Pos. Alloy, **HPC-IR-P**, 1 pkg. (6 required)
 - (-) Neg. Alloy, **HPC-CO-P**, 1 pkg. (6 required)
- Backshell: **MTC-12-SHL**

Female Connector Assembly

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



Material	Thermocouple Type (ANSI Symbol)
Iron/Constantan	J
CHROMEQA®/ALOMEGA®	K
Copper/Constantan	T
CHROMEQA®/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	Net
11-24	10%
25-49	15%
50-99	20%
100 and over.....	25%

Thermocouple Alloy and Gold-Plated Copper Contacts for Multipin Connectors

To Order visit omega.com/hpc_contacts for Pricing and Details			
Alloy Type	Coding Color Letter	Pins (Male)	Sockets (Female)
Iron (+)	BLK M	HPC-IR-P	HPC-IR-S
Constantan (-)	YEL N	HPC-CO-P	HPC-CO-S
Copper (+)	RED C	HPC-CU-P	HPC-CU-S
CHROMEQA® (+)	WHT P	HPC-CH-P	HPC-CH-S
ALOMEGA® (-)	GRN R	HPC-AL-P	HPC-AL-S
*Gold-Plated (Uncompensated)	Color Bands†	HPC-AU-P	HPC-AU-S

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.