Multipin Design Thermocouple Connectors See Page 112 Style: MTC with 200°C for Multipair Wire **Maximum Service Temperature**

Shown with In-Line Cable **Connector with Optional** Backshell Cable Clamp

OMEGA[®] sturdy multipin connectors provide an efficient means of joining multiwire thermocouple cables. They can be used with multiple OMÉGA® extension wire for rapid, convenient connections and for dismantling an apparatus without handling individual sensors.

When used with MTC Series pins, the connector design utilises a combination of resilient and rigid dielectric insulators to eliminate internal air voids and prevent the passage of air and moisture into or through the connector. Connectors can withstand ambient temperatures to 200°C, contributing to an extended



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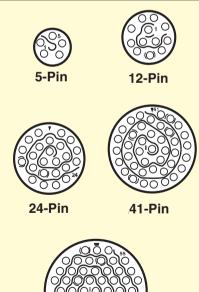
Thermocouple Alloy Pins

- Air and Moisture Resistant Connection
- Removable Crimp **Contacts**
- 20-24 AWG Stranded Wire
- Aluminium Shells
- **Black Anodised Finish**
- Threaded Coupling



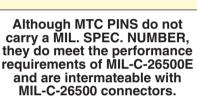
For Five-Cavity Female Flanged Connector-Pins Sold Separately

Recommended for Use With Stranded Wire



55-Pin

Contact cavities are identified with a spiral guide line indicating cavity sequence. The first and last cavities are numbered and every tenth cavity is bracketed.



Style FF

Flange mounted

receptacle

with threaded coupling. Uses

sockets only.



Multipin Connector Bodies*

To Order (Snecify Model Number)

Number of Cavities	Male	Price	FC Female Cord	Price	FF Female Flanged	Price	Backshell Cable Clamp**	Price
5	MTC-5-MC	£35.50	MTC-5-FC	£62.00	MTC-5-FF	£33.50	MTC-5-SHL	£33.00
12	MTC-12-MC	37.50	MTC-12-FC	48.50	MTC-12-FF	37.50	MTC-12-SHL	24.50
24	MTC-24-MC	43.50	MTC-24-FC	57.00	MTC-24-FF	49.00	MTC-24-SHL	25.50
41	MTC-41-MC	52.00	MTC-41-FC	72.00	MTC-41-FF	56.00	MTC-41-SHL	29.50
55	MTC-55-MC	57.00	MTC-55-FC	85.00	MTC-55-FF	63.00	MTC-55-SHL	27.00

*Contacts not included. Order from next page.

**Backshell cable clamps provide effective support for the cable at the male or female connector and prevent twisting and pulling.

Thermocouple Contacts Precision CNC Machined Type MTC

For Connector Dimensions See omega.co.uk

Crimp-Type Attachment

- Contacts Are Colour-Coded
- Accessories Available
- **High Performance Design**

OMEGA[®] push-in crimp style contacts are manufactured from thermocouple alloy materials and are generically colour-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.



£40

MTC-RT £51

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, MTC-IR-P, 6 ea. (-) Neg. Alloy, MTC-CO-P, 6 ea. 3. Backshell: MTC-12-SHL

- Female Connector Assembly 1. Body: MTC-12-FC
- 2. Sockets:
- (+) Pos. Alloy, MTC-IR-S, 6 ea. (-) Neg. Alloy, MTC-CO-S, 6 ea. Backshell: MTC-12-SHL

Thermocouple Alloy and Gold-Plated Copper Contacts for Multipin Connectors

	Shown 5x Actual Size
02	
	Pins
	Sockets

Material	Thermocouple Type (IEC/ANSI Symbol)
Iron/Constantan CHROMEGA [™] /ALOMEGA [™] Copper/Constantan CHROMEGA [™] /Constantan OMEGA-P [™] /OMEGA-N [™]	JKTEN

Pin and Quantity D	
1–10 units	Net
11-24 units	10%
25–49 units	15%
50–99 units	20%
100 and up	25%

To Order (Specify Model Number)							
Alloy Type	Pins (Male)	Coding Colour Letter	Price Each	Sockets (Female)	Coding Colour Letter	Price Each	
Iron (+)	MTC-IR-P	BLK M	£13	MTC-IR-S	BLK M	£21	
Constantan (-)	MTC-CO-P	YEL N	21	MTC-CO-S	YEL N	21	
Copper (+)	MTC-CU-P	RED C	17	MTC-CU-S	RED C	17	
CHROMEGA [™] (+)	MTC-CH-P	WHT P	14	MTC-CH-S	WHT P	21	
ALOMEGA™ (–)	MTC-AL-P	GRN R	14	MTC-AL-S	GRN R	21	
OMEGA-P [™] (+)	MTC-OP-P	Orange OP	20	MTC-OP-S	Orange OP	25	
OMEGA-N™(–)	MTC-ON-P	Blue ON	20	MTC-ON-S	Blue ON	25	
*Gold-Plated (Uncompensated)	MTC-AU-P	Colour Bands RED, YEL, BRN	.65	MTC-AU-S	Colour Bands RED, BLUE, BLK	1.05	

Sealing Plugs, model MTC-HP, £0.40 each.

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

Grommets available. Consult Sales Department for price and delivery.



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

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.

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