

# Multipin Design Thermocouple Connectors

Model MTC with 200°C (392°F)  
Maximum Service Temperature

Visit [omega.com/connector\\_dimensions](http://omega.com/connector_dimensions)  
Detailed Dimensions



Shown actual size.

Visit [omega.com](http://omega.com) for multipair extension cable.

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

## MTC Series

For Five-Cavity Female Flanged Connector—Pins Sold Separately

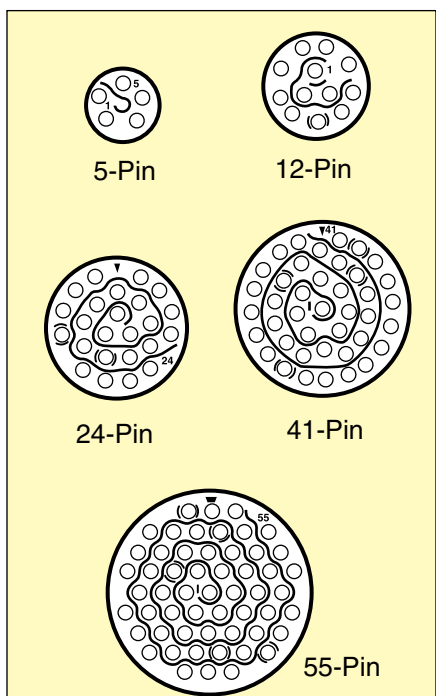
- ✓ Thermocouple Alloy Pins
- ✓ Air and Moisture Resistant Connection
- ✓ Removable Crimp Contacts
- ✓ 20 to 24 AWG Stranded Wire
- ✓ Aluminum Shells
- ✓ Black Anodized Finish
- ✓ Threaded Coupling

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

Although MTC PINS do not carry a MIL. SPEC. NUMBER, they do meet the performance requirements of MIL-C-26500E and are intermateable with MIL-C-26500 connectors.

When used with MTC Series pins, the connector design utilizes 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 (392°F), contributing to an extended connector life.

### Recommended for Use With Stranded Wire



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

Style MC and FC

Flange mounted receptacle with threaded coupling. Uses sockets only.

Style FC

In-line cable connectors with threaded couplings. Style MC uses pins; style FC uses sockets.

Style SHL

### Multipin Connector Bodies\*

To Order Visit [omega.com/mtc\\_conn](http://omega.com/mtc_conn) for Pricing and Details

Number of Cavities	MC Male Cord	FC Female Cord	FF Female Flanged	Backshell Cable Clamp**
5	MTC-5-MC	MTC-5-FC	MTC-5-FF	MTC-5-SHL
12	MTC-12-MC	MTC-12-FC	MTC-12-FF	MTC-12-SHL
24	MTC-24-MC	MTC-24-FC	MTC-24-FF	MTC-24-SHL
41	MTC-41-MC	MTC-41-FC	MTC-41-FF	MTC-41-SHL
55	MTC-55-MC	MTC-55-FC	MTC-55-FF	MTC-55-SHL

\* 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.

Ordering Examples: MTC-55-FC, multipin connector body. MTC-24-FF, female flanged connector.