

Compensated M12 Field Mount Thermocouple Connectors



M12-FM Series



- ✓ Field Mount
- ✓ Includes Thermocouple Pins and Sockets
- ✓ Improves Accuracy Over Standard Connectors
- ✓ Provide Convenient Connection to Equipment M12 Connections
- ✓ Available as Right Angled or Straight Connections
- ✓ IP67 Rated
- ✓ Maximum Connector Temperature 85°C (185°F)

The field mount M12 connectors can be attached to existing sensor or extension cables with #18 to #24AWG conductors and a 4 to 6 mm (0.16 to 0.24") cable diameter in the field by means of screw type connections. Male and female connectors, with straight or right angled connection styles provide a wide selection of connection options.



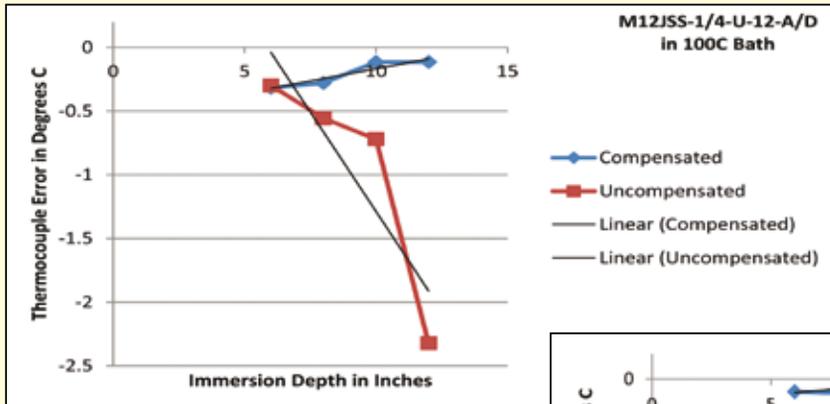
M12-J-S-F-FM



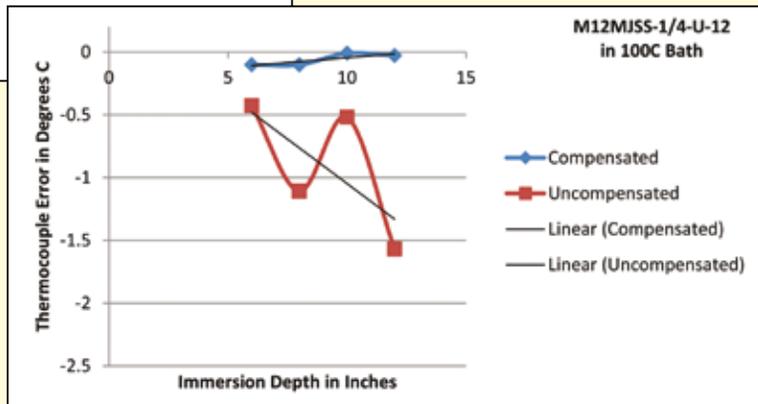
M12-J-S-M-FM

M12 connectors shown actual size.

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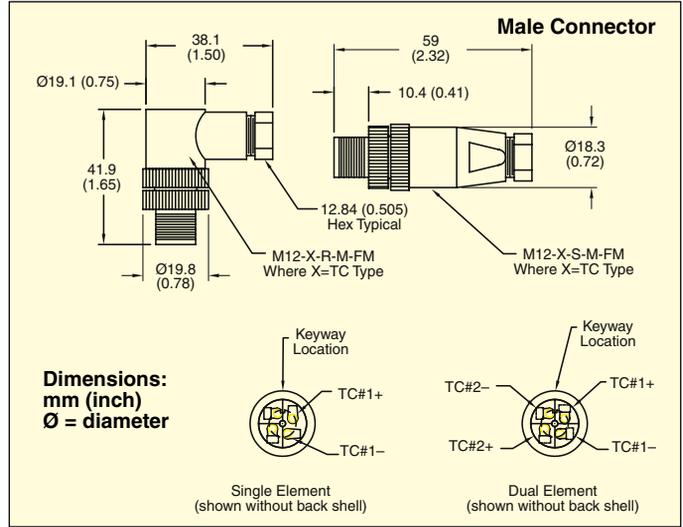
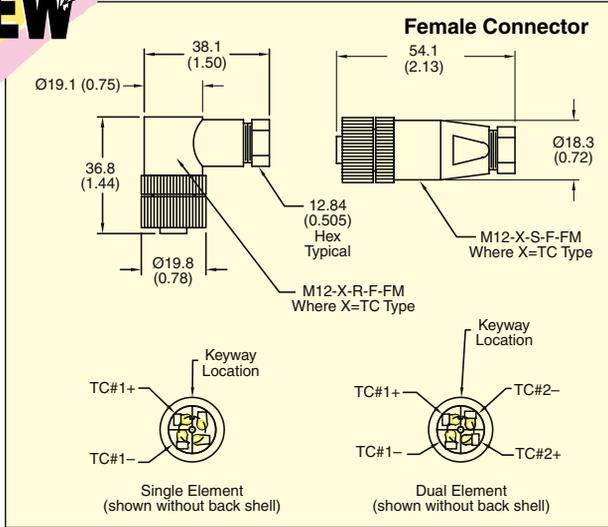


When tested against connectors containing standard brass or copper pins and sockets, these thermocouple connectors maintained measurement accuracies even when exposed to temperature gradients.



Color Codes

Thermocouple Type	ANSI Color Code (Positive/Negative)	IEC Color Code (Positive/Negative)
K	Yellow/Red	Green/White
J	White/Red	Black/White
T	Blue/Red	Brown/White
E	Purple/Red	Rose/White



Dimensions:
mm (inch)
Ø = diameter

Thermocouple Connector

Model No.**	Thermocouple Type	Positive Terminal	Negative Terminal
M12-K-(*)-M-FM	K	Chromel Pin	Alumel Pin
M12-J-(*)-M-FM	J	Iron Pin	Constantan Pin
M12-T-(*)-M-FM	T	Copper Pin	Constantan Pin
M12-E-(*)-M-FM	E	Chromel Pin	Constantan Pin
M12-K-(*)-F-FM	J	Chromel Socket	Alumel Socket
M12-J-(*)-F-FM	K	Iron Socket	Constantan Socket
M12-T-(*)-F-FM	T	Copper Socket	Constantan Socket
M12-E-(*)-F-FM	E	Chromel Socket	Constantan Socket

* Specify “-S” for straight connector or “-R” for right angled connector.

** For dual thermocouple connectors, the model number has two letters for the type (ex. M12-KK-S-M-FM).

To Order	
Model No.	Description
M12-K-R-M-FM	Type K thermocouple right angled M12 male connector
M12-J-R-M-FM	Type J thermocouple right angled M12 male connector
M12-T-R-M-FM	Type T thermocouple right angled M12 male connector
M12-E-R-M-FM	Type E thermocouple right angled M12 male connector
M12-K-S-M-FM	Type K thermocouple straight M12 male connector
M12-J-S-M-FM	Type J thermocouple straight M12 male connector
M12-T-S-M-FM	Type T thermocouple straight M12 male connector
M12-E-S-M-FM	Type E thermocouple straight M12 male connector
M12-K-R-F-FM	Type K thermocouple right angled M12 female (socket) connector
M12-J-R-F-FM	Type J thermocouple right angled M12 female (socket) connector
M12-T-R-F-FM	Type T thermocouple right angled M12 female (socket) connector
M12-E-R-F-FM	Type E thermocouple right angled M12 female (socket) connector
M12-K-S-F-FM	Type K thermocouple straight M12 female (socket) connector
M12-J-S-F-FM	Type J thermocouple straight M12 female (socket) connector
M12-T-S-F-FM	Type T thermocouple straight M12 female (socket) connector
M12-E-S-F-FM	Type E thermocouple straight M12 female (socket) connector

Ordering Examples: M12-K-R-M-FM, Type K thermocouple right angled M12 male connector.

M12-K-S-F-FM, Type K thermocouple straight M12 female (socket) connector.