

# 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)

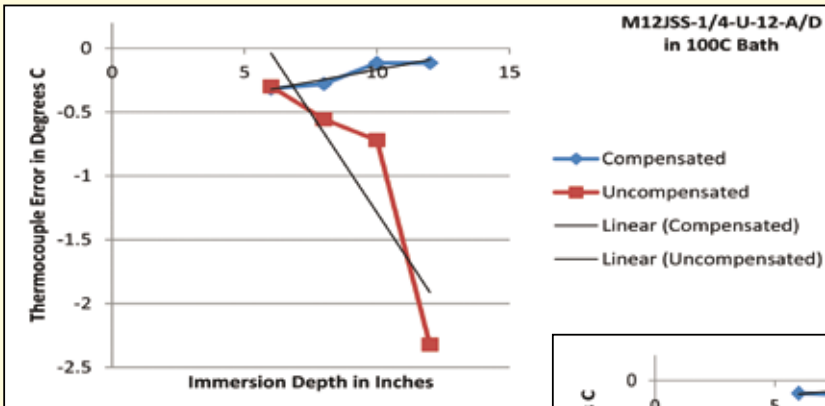
The field mount M12 connectors can be attached to existing sensor or extension cables with #18 to #24AWG conductors and a 4 to 6 mm (0.16 to 0.24") cable diameter in the field by means of screw type connections. Male and female connectors, with straight or right angled connection styles provide a wide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



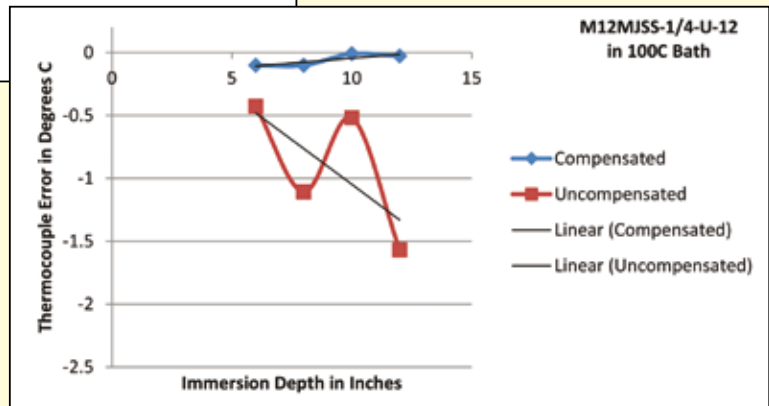
M12-J-S-F-FM

M12 connectors shown actual size.

M12-J-S-M-FM

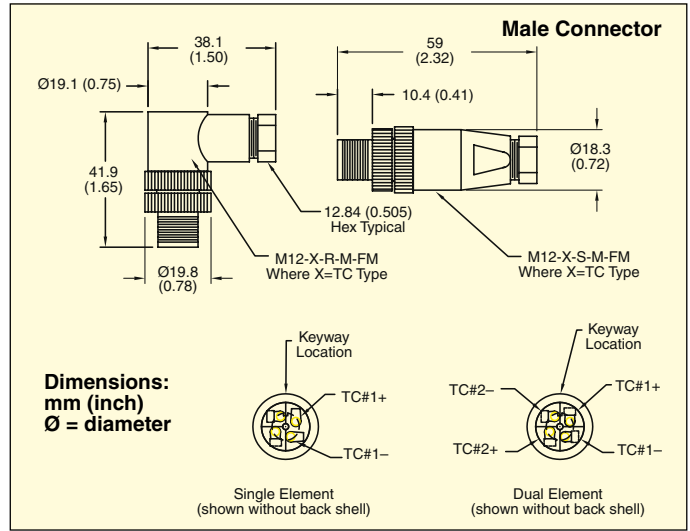
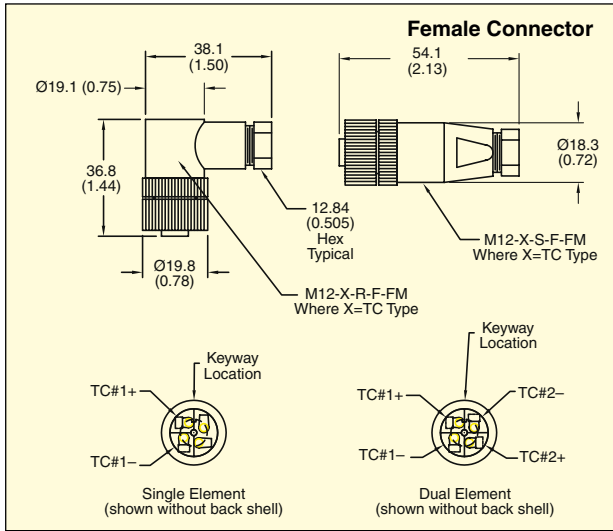


When tested against connectors containing standard brass or copper pins and sockets, these thermocouple connectors maintained measurement accuracies even when exposed to temperature gradients.



## 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



**Thermocouple Connector**

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

<b>To Order</b>	
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.