



M12 Cables with Compensated Connectors for Thermocouples

- ✓ Straight and Right Angled M12 Field Mountable Connector Sensor End
- ✓ Compensated Thermocouple Cable, Sockets and Pins
- ✓ Two Cable Insulation Options Available in IEC and ANSI Color Codes
- ✓ Variety of Connection Methods to Work with Your Instrumentation
- ✓ Vibration Tested to MIL-STD-202G, Method 204D, Test Condition A (10g's from 10 to 500 Hz) When Installed on an M12 Probe

M12CM Series



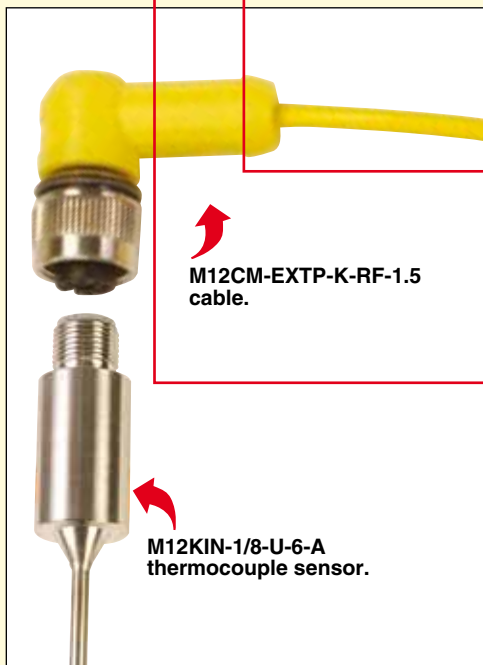
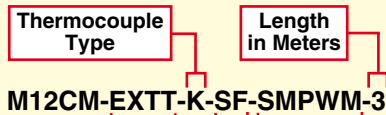
M12CM-EXTP-K-SM-1.5 straight connector shown smaller than actual size.



Right angle available.

Typical M12CM Cable Configuration

Note: A female connector is needed at one end for attaching the cable to any of our M12 thermocouple probes.

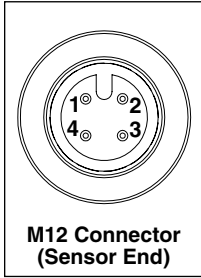
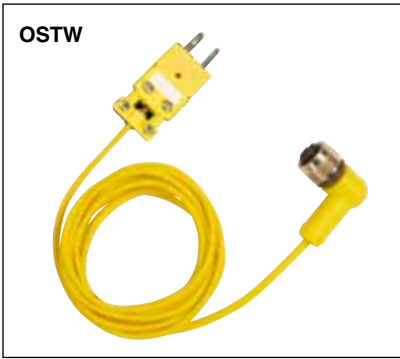


Model Number Options Key

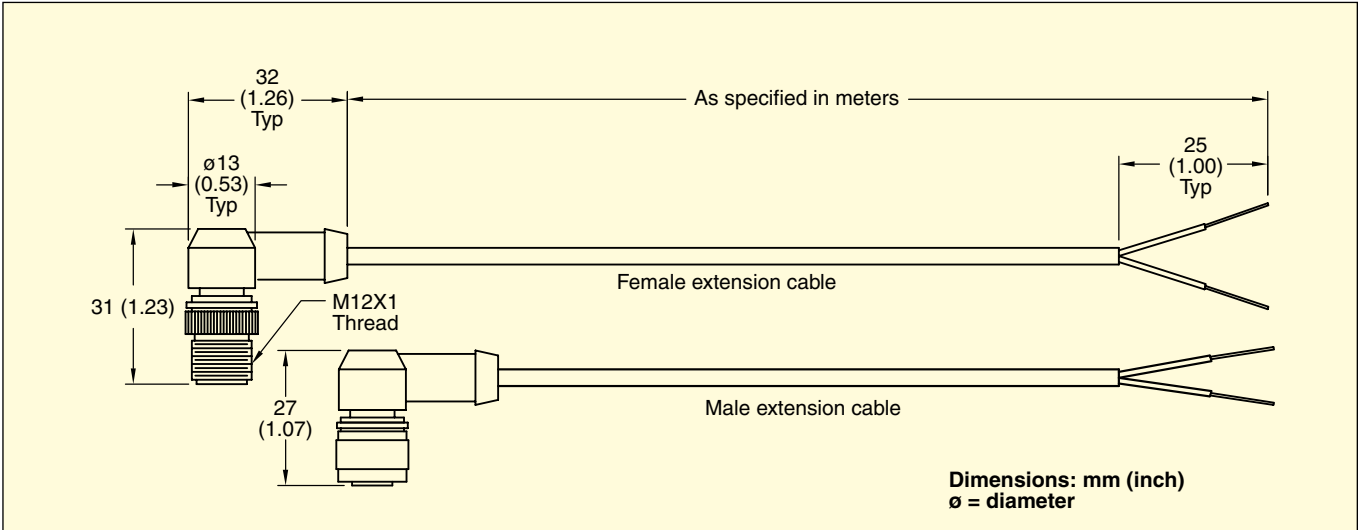
Back End Connector Options (Instrument Attachment)	
M12CM	25 mm (1") stripped leads (standard)
OSTWF	OSTW female connector
OSTWM	OSTW male connector
SMPWF	SMPW-CC connector (female)
SMPWM	SMPW-CC connector (male)
SF	M12 straight socket connector (female)
SM	M12 straight pin connector (male)
RF	M12 right angled socket connector (female)
RM	M12 right angled male connector (male)
Cable Length (m)	1.5, 3, 5, 10, or 20
Front End Connector Options (Sensor Attachment)	
SF	M12 straight socket connector (female)
SM	M12 straight plug connector (male)
RF	M12 right angled socket connector (female)
RM	M12 right angled plug connector (male)
Cable Options	
EXTP	Extension grade 24 AWG stranded, PFA insulated on conductors, PVC jacketed and polyurethane overmold
EXTT	Extension grade 24 AWG stranded, PFA insulated on conductors and the jacket, and an LCP overmold



M12 Thermocouple Cables (Cable Termination Options with Compensated Connectors)



Cable Wiring										
M12 Connector	Type J		Type K		Type T		Type E		OSTW	SMPW
	Pin Number	ANSI	IEC	ANSI	IEC	ANSI	IEC	ANSI		
1	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
2	White	Black	Yellow	Green	Blue	Brown	Purple	Violet	+	+
3	Red	White	Red	White	Red	White	Red	White	-	-
4	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
Connector Color	Black	Black	Yellow	Green	Blue	Blue	Purple	Violet	N/C	N/C

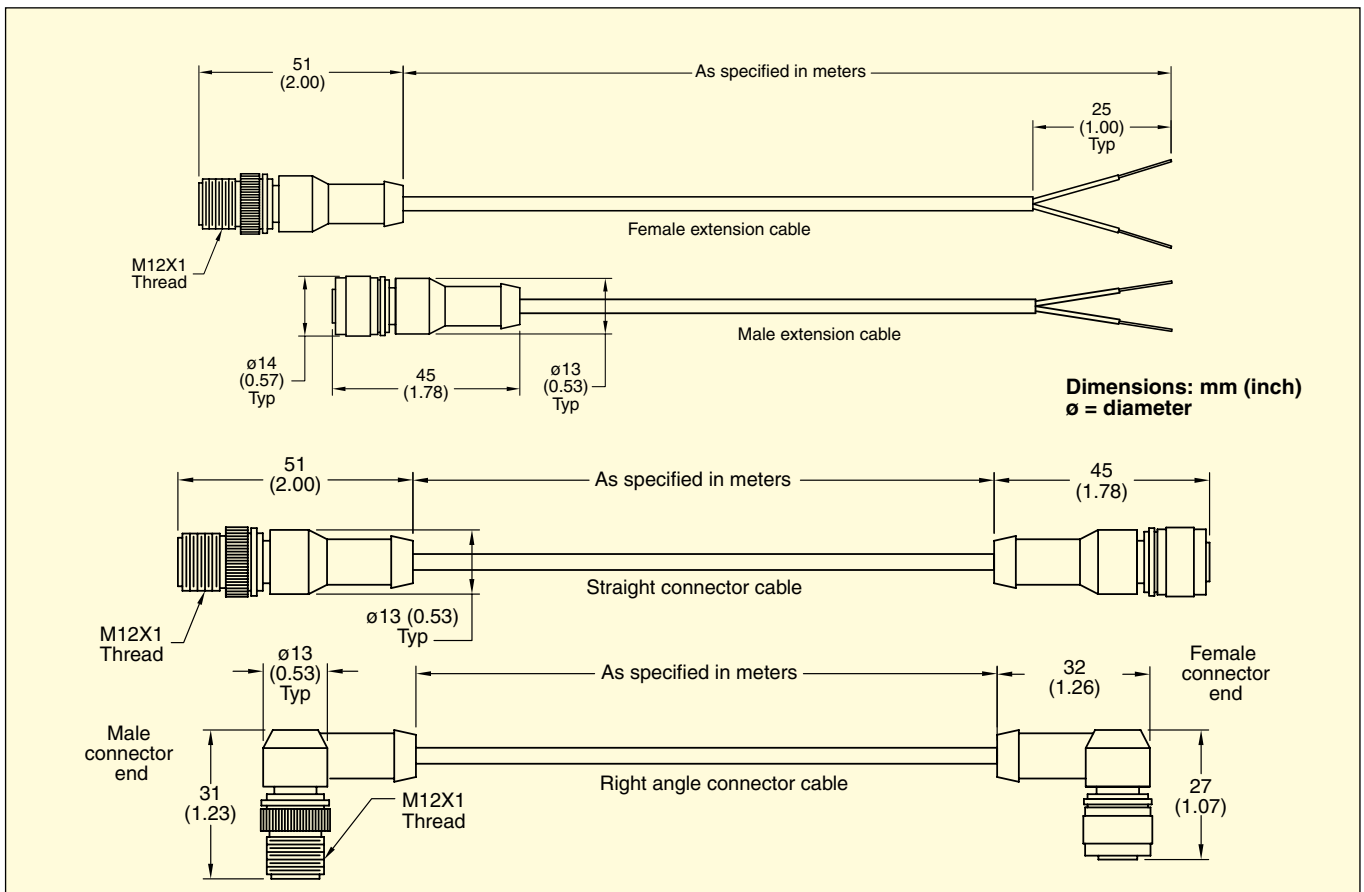




M12CM-EXTT-K-SF-1.5 cable assembly shown smaller than actual size.



M12CM-EXTP-J-RF-RM-1.5 cable assembly shown smaller than actual size.





To Order			
Model No.	Cable	Sensor Connector*	Length meters (feet)
M12CM-EXTT-K-SF-1.5	PFA insulated, 24 AWG stranded, PVC jacket and polyurethane overmold, LCP overmold, maximum temperature 250°C (482°F) <i>Note: A female connector is needed at one end for attaching the cable to any of our M12 thermocouple probes.</i>	Type K M12 straight socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTT-K-SF-3			3 (9.8)
M12CM-EXTT-K-SF-5			5 (16.4)
M12CM-EXTT-K-SF-10			10 (32.8)
M12CM-EXTT-K-SF-20			20 (65.6)
M12CM-EXTT-K-RF-1.5		Type K M12 right angled socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTT-K-RF-3			3 (9.8)
M12CM-EXTT-K-RF-5			5 (16.4)
M12CM-EXTT-K-RF-10			10 (32.8)
M12CM-EXTT-K-RF-20			20 (65.6)
M12CM-EXTT-J-SF-1.5		Type J M12 straight socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTT-J-SF-3			3 (9.8)
M12CM-EXTT-J-SF-5			5 (16.4)
M12CM-EXTT-J-SF-10			10 (32.8)
M12CM-EXTT-J-SF-20			20 (65.6)
M12CM-EXTT-J-RF-1.5		Type J M12 right angled socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTT-J-RF-3			3 (9.8)
M12CM-EXTT-J-RF-5			5 (16.4)
M12CM-EXTT-J-RF-10			10 (32.8)
M12CM-EXTT-J-RF-20			20 (65.6)
M12CM-EXTT-T-SF-1.5		Type T M12 straight socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTT-T-SF-3			3 (9.8)
M12CM-EXTT-T-SF-5			5 (16.4)
M12CM-EXTT-T-SF-10			10 (32.8)
M12CM-EXTT-T-SF-20			20 (65.6)
M12CM-EXTT-T-RF-1.5		Type T M12 right angled socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTT-T-RF-3			3 (9.8)
M12CM-EXTT-T-RF-5			5 (16.4)
M12CM-EXTT-T-RF-10			10 (32.8)
M12CM-EXTT-T-RF-20			20 (65.6)
M12CM-EXTT-E-SF-1.5	Type E M12 straight socket with stripped leads on other end (another connector can be added)	1.5 (4.9)	
M12CM-EXTT-E-SF-3		3 (9.8)	
M12CM-EXTT-E-SF-5		5 (16.4)	
M12CM-EXTT-E-SF-10		10 (32.8)	
M12CM-EXTT-E-SF-20		20 (65.6)	
M12CM-EXTT-E-RF-1.5	Type E M12 right angled socket with stripped leads on other end (another connector can be added)	1.5 (4.9)	
M12CM-EXTT-E-RF-3		3 (9.8)	
M12CM-EXTT-E-RF-5		5 (16.4)	
M12CM-EXTT-E-RF-10		10 (32.8)	
M12CM-EXTT-E-RF-20		20 (65.6)	

Model No.	Cable	Sensor Connector*	Length Meters (Feet)
M12CM-EXTP-K-SF-1.5	PFA insulated, 24 AWG stranded, PVC jacket and polyurethane overmold, maximum temperature 105°C (221°F) <i>Note: A female connector is needed at one end for attaching the cable to any of our M12 thermocouple probes.</i>	Type K M12 straight socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTP-K-SF-3			3 (9.8)
M12CM-EXTP-K-SF-5			5 (16.4)
M12CM-EXTP-K-SF-10			10 (32.8)
M12CM-EXTP-K-SF-20			20 (65.6)
M12CM-EXTP-K-RF-1.5		Type K M12 right angled socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTP-K-RF-3			3 (9.8)
M12CM-EXTP-K-RF-5			5 (16.4)
M12CM-EXTP-K-RF-10			10 (32.8)
M12CM-EXTP-K-RF-20			20 (65.6)
M12CM-EXTP-J-SF-1.5		Type J M12 straight socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTP-J-SF-3			3 (9.8)
M12CM-EXTP-J-SF-5			5 (16.4)
M12CM-EXTP-J-SF-10			10 (32.8)
M12CM-EXTP-J-SF-20			20 (65.6)
M12CM-EXTP-J-RF-1.5		Type J M12 right angled socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTP-J-RF-3			3 (9.8)
M12CM-EXTP-J-RF-5			5 (16.4)
M12CM-EXTP-J-RF-10			10 (32.8)
M12CM-EXTP-J-RF-20			20 (65.6)
M12CM-EXTP-T-SF-1.5		Type T M12 straight socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTP-T-SF-3			3 (9.8)
M12CM-EXTP-T-SF-5			5 (16.4)
M12CM-EXTP-T-SF-10			10 (32.8)
M12CM-EXTP-T-SF-20			20 (65.6)
M12CM-EXTP-T-RF-1.5		Type T M12 right angled socket with stripped leads on other end (another connector can be added)	1.5 (4.9)
M12CM-EXTP-T-RF-3			3 (9.8)
M12CM-EXTP-T-RF-5			5 (16.4)
M12CM-EXTP-T-RF-10			10 (32.8)
M12CM-EXTP-T-RF-20			20 (65.6)
M12CM-EXTP-E-SF-1.5	Type E M12 straight socket with stripped leads on other end (another connector can be added)	1.5 (4.9)	
M12CM-EXTP-E-SF-3		3 (9.8)	
M12CM-EXTP-E-SF-5		5 (16.4)	
M12CM-EXTP-E-SF-10		10 (32.8)	
M12CM-EXTP-E-SF-20		20 (65.6)	
M12CM-EXTP-E-RF-1.5	Type E M12 right angled socket with stripped leads on other end (another connector can be added)	1.5 (4.9)	
M12CM-EXTP-E-RF-3		3 (9.8)	
M12CM-EXTP-E-RF-5		5 (16.4)	
M12CM-EXTP-E-RF-10		10 (32.8)	
M12CM-EXTP-E-RF-20		20 (65.6)	

* All models have stripped leads termination, connector can be added.
 For longer cables, change last number in model number to the desired length in meters, for an additional cost per meter.
 For IEC colors add "I" after the thermocouple type, ie "KI", no additional cost.
 To add a connector add "-SMPWF" or "-SMPWM", "-OSTWF" or "-OSTWM", "-SF", "-SM", "-RF" or "-RM" for an additional cost.
Ordering Examples: M12CM-EXTT-K-SF-3, Type K thermocouple, 3 m (9.8') cable with PFA insulated and jacketed and female M12 connector.
 M12CM-EXTT-K-SF-SMPWM, Type K thermocouple, 5 m (16.4') cable with PFA insulated and jacketed and female M12 connector and flat pin male connector.