

Thermocouple Probes

Thermocouple Probe Specifying and Ordering System, Stocked Models

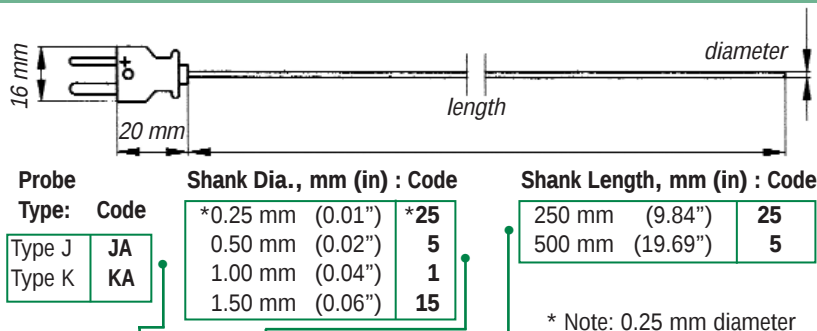
TCO Mini Connector Thermocouple Probes

Small diameter, compact probes for light duty, general purpose use in applications requiring low probe mass, fast temperature response, or minimal heat transfer. Probes are supplied complete with molded-on compensated two-pin male ANSI mini connectors, compatible and interchangeable with any other mini connectors. Perfect for lab and research use.

IEC 584 class 2 (ASTM E 230).

Temp. Limits: 1150°C (2102°F) for type K

600°C (1112°F) for type J



To Order TCO Probes:

TCO 2 I X

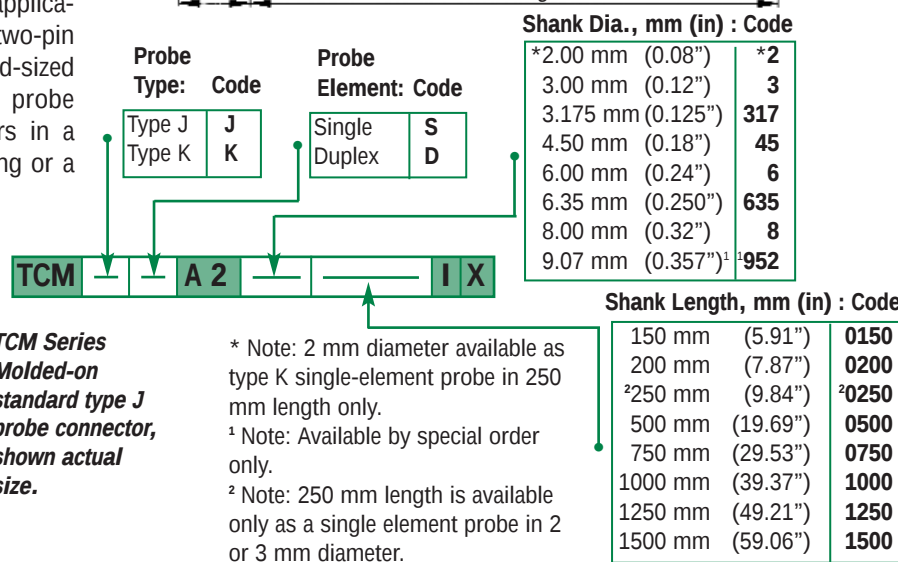
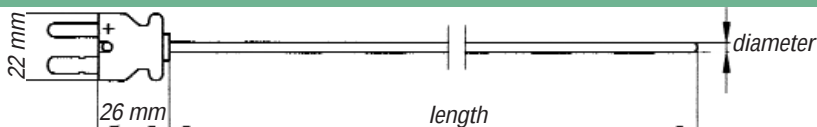
TCM Standard Connector Thermocouple Probes

Rugged standard connection thermocouple probes maintain good speed of response and heat transfer characteristics and are suitable for use in a wide range of general purpose and heavy duty applications. Probes have molded-on standard two-pin ANSI connectors compatible with all standard-sized thermocouple fittings. Four-pin "duplex" probe option provides two thermocouple sensors in a common probe shank for easy signal splitting or a built-in backup system.

IEC 584 class 2 (ASTM E 230).

Temp. Limits: 1150°C (2102°F) for type K

600°C (1112°F) for type J

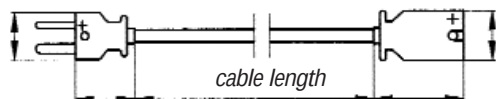


TCM Series Molded-on standard type J probe connector, shown actual size.

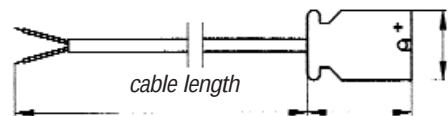
TCO and TCM Series Probe Extension Cables

Choose from Two Extension Cable Types:

Temp. Limit: 120°C (248°F)



1. Socket/Cable/Plug Extension Cable



2. Socket/Cable Only Extension Cable

Cable Length:

1500 mm	1500
3000 mm	3000
5000 mm	5000

Sensor Type:

type J	AV
type K	AA

Connector Type:

standard, single*	E*
mini	G

PCV X X

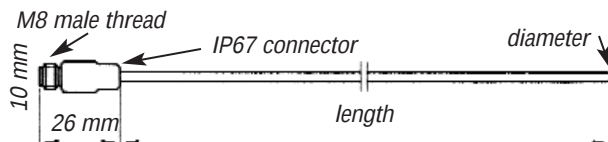
Extension Cable Type:

Connector Type	Cable Configuration	Code
mini	socket/cable only	X
mini	socket/cable/plug	E
standard, single*	socket/cable only	X*
standard, single*	socket/cable/plug	C*

*Note: Two standard single cables of equal length can be used to create an extension cable for duplex probes.

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TCS V8 Three-Pin Connector Thermocouple Probes



Thermocouple probes with molded-on compensated connectors and M8 male three-pin threaded fittings. With matching connectors and cables (see table below), TCS V8 systems provide the advantage of an efficient, robust, easily-installed, compact, and watertight threaded connection suitable for severe conditions. IEC 584 class 2 (ASTM E 230). Temperature limits are 1150° C (2102°F) for type K and 600° C (1112°F) for type J.

To Order TCS V8 Probes:



TCS V8 type K thermocouple probe

Probe Type:	Code
Type J	JA
Type K	KA

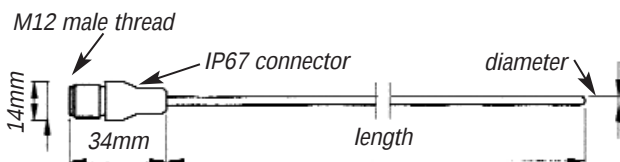
TCSV8 2 I X

Shank Dia., mm (in) : Code		
2 mm	(0.079")	2
3 mm	(0.118")	3
3.175 mm	(0.125")	317

Shank Length, mm (in) : Code

150 mm	(5.91")	0150
200 mm	(7.87")	0200
250 mm	(9.84")	0250

TCSV12 Heavy Duty Four-Pin Connector Thermocouple Probes



TCSV12 probes offer superior strength, vibration resistance, and environmental protection. Molded-on four-pin male connectors attach to compatible connector/extension cable systems, below, with either straight or 90° elbow fittings. Note that TCS V12 probes may be ordered in either single or dual (duplex) sensor configurations without change to dimensions. IEC 584 class 2 (ASTM E 230). Temperature limits are 1150° C (2102°F) for type K and 600° C (1112°F) for type J.

To Order TCS V12 Probes:

Probe Type:	Code
Type J	J
Type K	K

Sensor:	Code
Single	S
Duplex	D

TCSV12 2 I X

Shank Dia., mm (in) : Code		
3 mm	(0.118")	3
3.175 mm	(0.125")	317
4.5 mm	(0.177")	45
6 mm	(0.236")	6
6.35 mm	(0.250")	635

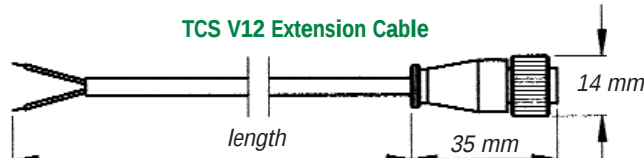
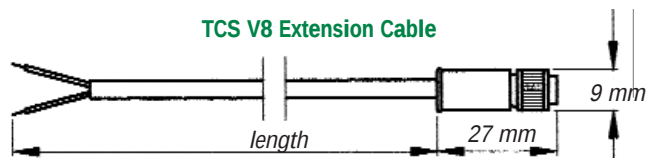
Shank Length, mm (in) : Code

250 mm	(9.84")	0250
500 mm	(19.69")	0500
1000 mm	(39.37")	1000
1500 mm	(59.06")	1500



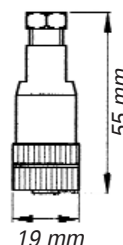
TCS V12 type K thermocouple probe shown with CONV033 90° cable connector.

TCS V8 and TCS V12 Series Probe Extension Cables and Connectors

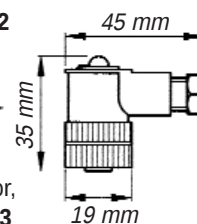


TCS V12 Connectors

For straight connector, order part no. CONV032



For 90° elbow connector, order part no. CONV033



Model Number Configurator:

PCV X X X

Cable Length:	Code
1500 mm	(4'11") 1500
3000 mm	(9'10") 3000
5000 mm	(16'5") 5000

Sensor Type:	Code
type J	AV
type K	AA

Connector Type:

V8 3-pin threaded	A
V12 4-pin threaded	C

Temperature limits:
90° C (194°F) for connector
180° C (356°F) for cable