SHEATH WITH MALE PLUG

How to build a part number:

To order an Applied Sensor Technologies temperature sensor, select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Don't see exactly what you need? Give us a call!

SENSOR TYPE	ASSEMBLY STYLE	SHEATH DIAMETER	SHEATH MATERIAL	CALIBRATION	HOT JUNCTION	SHEATH LENGTH	OPTIONS

SENSOR TYPE*
GP – General purpose thermocouple
MI – Mineral insulated thermocouple

ASSEMBLY STYLE
14 – **Sheath with standard male plug**; maximum termination temperature 177˚C (350˚F)
74 – **Sheath with miniature male plug**; maximum sheath diameter 3/16" OD; maximum termination temperature 177˚C (350˚F)

SHEATH DIAMETER (in inches)
3 – 1/16 (0.063) (Style MI 74 only)
4 – 1/8 (0.125)
6 – 3/16 (0.188)
7 – 1/4 (0.250) (Style 14 only)

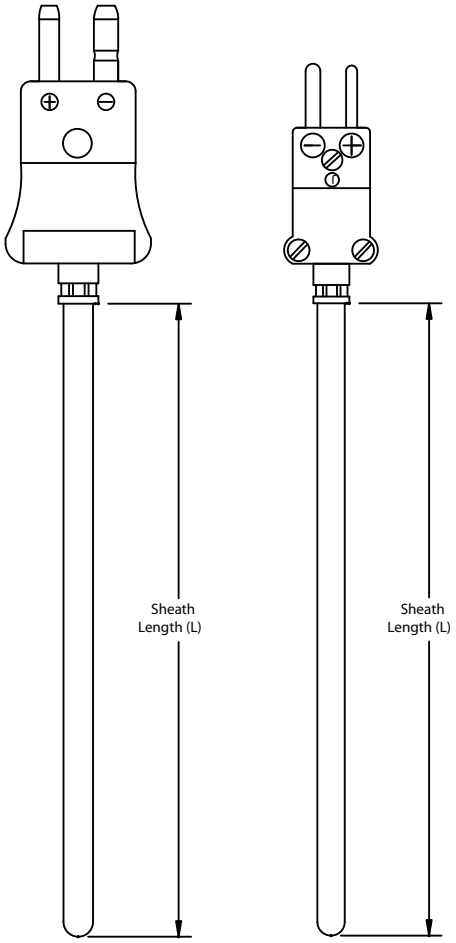
SHEATH MATERIAL
3 – 316 stainless steel
5 – Inconel® 600 (MI only)

CALIBRATION – Standard limits
J – Single J
K – Single K
T – Single T
E – Single E
Special limits are available – consult AST

HOT JUNCTION
G – Grounded junction
U – Ungrounded junction
E – Exposed junction

SHEATH LENGTH (Note: maximum L=96" for GP; for MI, lengths over L84 will be shipped coiled unless otherwise specified)
L# – (e.g., L6 = 6" sheath, L12.5 = 12.5" length)

OPTIONS – see page 1-14b



Style 14 Style 74

*Note: GP thermocouples, manufactured using hollow tubing and wire, tend to be lower cost than MI, but cannot be bent in the field and are standardly designed for sensing temperatures below 500°F. MI thermocouples are more rugged than GP due to compacted magnesium-oxide powder insulation, can be bent in the field, and are appropriate for the temperature range of the sensor and sheath.

AVAILABLE OPTIONS and MODIFICATIONS

ASSEMBLY OPTIONS	
Option Code	Description
TAG1	Stainless steel tag and wire
CAL1	NIST traceable calibration [specify point(s)]
CRT1	Certificate of conformance
PLUGS AND JACKS	
PJ20	Standard jack, rated to 177°C (350°F) (Style 14 only)
PJ40	Miniature jack, rated to 177°C (350°F) (Style 74 only)

EXTENSION WIRE

A selection of extension-grade thermocouple wire is available to connect the sensor to its input device. Consult Accessories section.

COMPRESSION FITTINGS (for diameters 4, 6, 7)			
Option Code	NPT	Material	Ferrule
CF10	1/8"	Stainless steel	Stainless steel
CF11	1/8"	Stainless steel	Teflon®
CF12	1/8"	Brass	Brass
CF20	1/4"	Stainless steel	Stainless steel
CF21	1/4"	Stainless steel	Teflon®
CF22	1/4"	Brass	Brass
CF30	1/2"	Stainless steel	Stainless steel
CF31	1/2"	Stainless steel	Teflon®
CF32	1/2"	Brass	Brass

Note: Many non-standard options, including additional sheath diameters and materials, may also be available – consult AST for specific requirements.

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