Thermocouple, Stainless Steel Tube Type
1/4 Inch Diameter

The thermocouples are encased in a 1/4-inch diameter 316 stainless steel tubing sheath with stainless steel Bell Spring for strain relief. The initial offerings are K type thermocouples with 6-inch and 10-inch long 1/4-inch diameter probes. The thermocouples are shipped straight but can be bent with standard tubing benders anywhere along its length to a 90° angle to minimize clearance required and help prevent damage due to personnel working on the unit. The thermocouple is tip sensitive to minimize ambient temperature influence and should be inserted between 25% and 75% of the piping inside diameter or enough to minimize any skin temperature affect on the tip of the probe when installed in vessels.

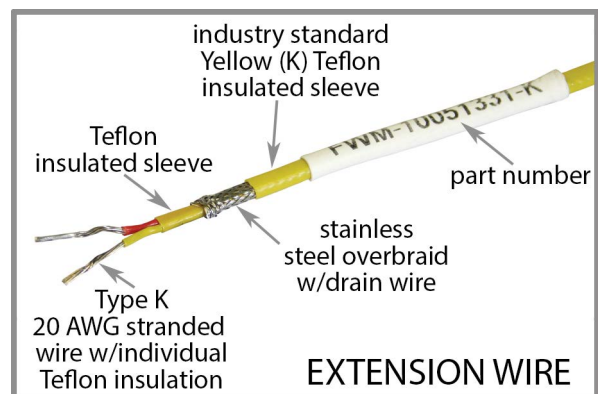The thermocouples are built to comply with ASTM E608 as well as IEC 60584.

Features

- Stainless steel transition sealing gland with a stainless steel Bell Spring for strain relief.
- Standard bore through stainless steel compression fitting for securing the thermocouple in the thermowell at the appropriate depth.
- Can be inserted directly into a low-pressure application process through a standard 1/4-inch stainless steel bore through tubing compression fitting.
- Enables a run from the point of measurement to the nearest conduit entry, junction box or all the way to the panel housing the readout and monitoring instrument. Can also be installed in a cable tray.
- The thermowell assembly comes with a stainless steel bore through compression fitting and ferrule saving installation time and money.
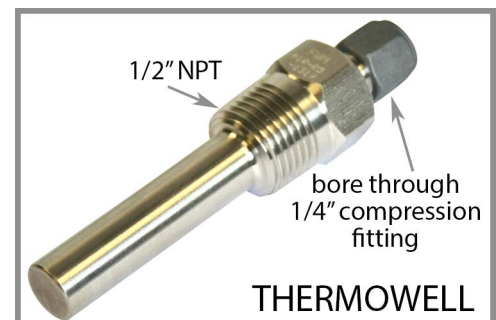
Extension Wire

The Type K, 20 AWG stranded extension wire encased in a rugged cable meets demanding environments. The industry-standard yellow Teflon allows easy identification of K type thermocouple wires so they can be separated from high voltage wires following good installation practices.

industry standard Yellow (K) Teflon insulated sleeve

Teflon insulated sleeve

part number

Type K 20 AWG stranded wire w/individual Teflon insulation

stainless steel overbraid w/drain wire

EXTENSION WIRE

Thermowell

Thermowells are available in 2-inch, 4-1/2 inch or 7-1/2 inch lengths for insertion depth and have a 1/2-inch NPT process connection. They are supplied with a standard stainless steel compression fitting for securing the thermocouple in the thermowell at the appropriate depth. In low pressure applications, the thermocouple can be inserted directly into the process through a standard 1/4-inch SS tubing compression fitting.

Material	Temperature vs PSIG				
304SS	400° F	600° F	800° F	1000° F	1200° F
	5600 PSIG	5400 PSIG	5200 PSIG	4500 PSIG	1650 PSIG

1/2″ NPT

bore through 1/4″ compression fitting

THERMOWELL

How to Order

Part Number	Description	Notes
10051331	Thermocouple, Type K, 1/4 Dia. Tube x 6 in. L	w/5 ft. Thermocouple Extension Wire
10051325	Thermocouple, Type K, 1/4 Dia. Tube x 6 in. L	w/15 ft. Thermocouple Extension Wire
10051326	Thermocouple, Type K, 1/4 Dia. Tube x 6 in. L	w/30 ft. Thermocouple Extension Wire
10051327	Thermocouple, Type K, 1/4 Dia. Tube x 6 in. L	w/50 ft. Thermocouple Extension Wire
10051328	Thermocouple, Type K, 1/4 Dia. Tube x 6 in. L	w/100 ft. Thermocouple Extension Wire
10051332	Thermocouple, Type K, 1/4 Dia. Tube x 10 in. L	w/5 ft. Thermocouple Extension Wire
10051323	Thermocouple, Type K, 1/4 Dia. Tube x 10 in. L	w/15 ft. Thermocouple Extension Wire
10051317	Thermocouple, Type K, 1/4 Dia. Tube x 10 in. L	w/30 ft. Thermocouple Extension Wire
10051322	Thermocouple, Type K, 1/4 Dia. Tube x 10 in. L	w/50 ft. Thermocouple Extension Wire
10051321	Thermocouple, Type K, 1/4 Dia. Tube x 10 in. L	w/100 ft. Thermocouple Extension Wire
10707436	Thermowell, 1/2 in. NPT, 1/4 in. T, 2.0 in. L	Assembly 304SS
10707437	Thermowell, 1/2 in. NPT, 1/4 in. T, 4.5 in. L	Assembly 304SS
10707438	Thermowell, 1/2 in. NPT, 1/4 in. T, 7.5 in. L	Assembly 304SS