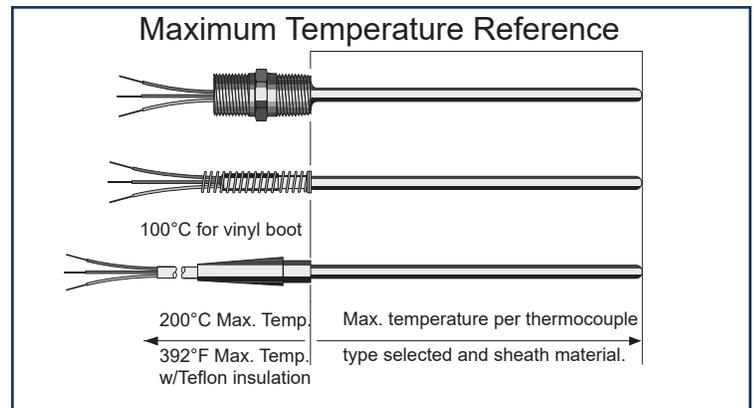
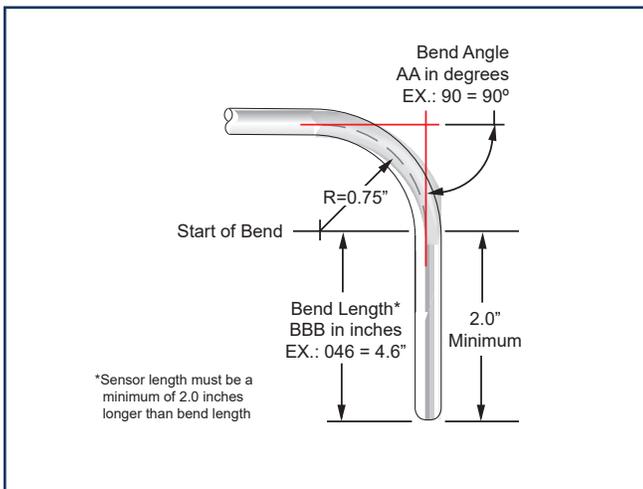


ASTM E230/ E230M-17 Thermocouple Type	Single Element Wire Designations	Wire Material, Generic & Trade Names	Magnetic	Sheath Material	Lead Wire Color Code	
					Individual Wire Insulator	Cable
E	EP EN	Chromel™ Constantan	No No	316SS	Purple Red	Brown
J	JP JN	Iron Constantan	Yes No	316SS	White Red	Brown
K	KP KN	Chromel™ Alumel™	No Yes	Inconel® 600	Yellow Red	Brown
N	NP NN	Nicrosil Nisil	No No	Inconel® 600	Orange Red	Brown
T	TP TN	Copper Constantan	No No	316SS	Blue Red	Brown

Accuracy and thermocouple interchangeability: All materials are in accordance with ASTM E230/E230M-17, special Limits of Error.

Bend Radius

Sheath is bendable with a 0.75" minimum radius.



Temperature Range and Initial Tolerances

ASTM E230/ E230M-17 Thermocouple Type	Temperature Range	Special Limits (% applies to temperature measure in °C)
E	-200°C to -170°C (-328°F to -274°F) -170°C to 125°C (-274°F to 257°F) 125°C to 870°C (257°F to 1598°F)	±0.8% ±0.5°C (±0.9°F) ±0.4%
J	0°C to 275°C (32°F to 527°F) 275°C to 750°C (527°F to 1382°F)	±1.1°C (±2.0°F) ±0.4%
K	0°C to 275°C (32°F to 527°F) 275°C to 1180°C (527°F to 2156°F)	±1.1°C (±2.0°F) ±0.4%
N	-40°C to 375°C (-40°F to 707°F) 375°C to 1000°C (-707°F to 1832°F)	±1.5°C (±2.5°F) ±0.4%
T	-200°C to -62.5°C (-328°F to -80.5°F) -62.5°C to 125°C (-80.5°F to 257°F) 125°C to 350°C (257°F to 662°F)	±0.8% ±0.5°C (±0.9°F) ±0.4%

See Millivolt vs. Temperature data for each thermocouple type on our website.