

SITRANS T measuring instruments for temperature

Thermocouples

Jacket thermocouples with extension lead

Overview

The jacket thermocouple with extension lead is suitable for a temperature range from 0 to 700, 1000 or 1100 °C (32 to 1292, 1832 or 2012 °F); a temperature of 80 to 260 °C (176 to 500 °F) is permissible for the extension lead.

Technical specifications

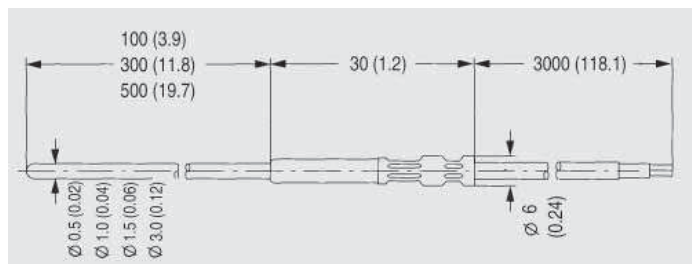
Thermocouple	Ni Cr/Ni, type K, one off
Jacket	
• Form	Outer diameter 0.5, 1.0, 1.5 or 3 mm (0.02, 0.04, 0.06 or 0.12 inch)
• Minimum bending radius	fivefold outer diameter
• Material	Inconel; NiCr 15 Fe, mat. No. 2.4816

Extension lead

- Number of conductors: 2
- Conductor cross-section: 0.22 mm² (0.00034 inch²)
- Length: 3 m (9.84 ft)

Type	Max. temperature °C (°F)	Conductor material	Insulation	
			single	common
L2SS	180 (356)	Ni Cr/Ni	Silicon	Silicon
L2KK	80 (176)	Ni Cr/Ni	PVC	PVC
L2TGD	260 (500)	Ni Cr/Ni	PTFE	Glass-filament and external stainless steel braiding

Dimensional drawings



Jacket thermocouple with extension lead, dimensions in mm (inches)

Selection and Ordering data

Order No.

Jacket thermocouple element with extension lead

Maximum temperature of medium 700 °C (1292 °F), jacket outer diameter 0.5 mm (0.02 inch)

Extension lead type L2KK
Nominal length in mm (inch):
• 300 (11.8)

7MC2027-2BA10

Maximum temperature of medium 1000 °C (1832 °F), jacket outer diameter 1 mm (0.04 inch)

Extension lead type L2SS
Nominal length in mm (inch):
• 100 (3.94)
• 300 (11.8)
• 500 (19.7)

7MC2027-1AA20
7MC2027-2AA20
7MC2027-3AA20

Extension lead type L2KK
Nominal length in mm (inch):
• 100 (3.94)
• 300 (11.8)
• 500 (19.7)

7MC2027-1BA20
7MC2027-2BA20
7MC2027-3BA20

Maximum temperature of medium 1100 °C (2012 °F), jacket outer diameter 1.5 mm (0.06 inch)

Extension lead type L2SS
Nominal length in mm (inch):
• 100 (3.94)
• 300 (11.8)
• 500 (19.7)

7MC2027-1AA30
7MC2027-2AA30
7MC2027-3AA30

Extension lead type L2KK
Nominal length in mm (inch):
• 100 (3.94)
• 300 (11.8)
• 500 (19.7)

7MC2027-1BA30
7MC2027-2BA30
7MC2027-3BA30

Jacket outer diameter 3.0 mm (0.12 inch)

Extension lead type L2SS
Nominal length in mm (inch):
• 100 (3.94)
• 300 (11.8)
• 500 (19.7)

7MC2027-1AA40
7MC2027-2AA40
7MC2027-3AA40

Extension lead type L2KK
Nominal length in mm (inch):
• 100 (3.94)
• 300 (11.8)
• 500 (19.7)

7MC2027-1BA40
7MC2027-2BA40
7MC2027-3BA40

Extension lead type L2TGD
Nominal length in mm (inch):
• 100 (3.94)
• 300 (11.8)
• 500 (19.7)

7MC2027-1CA40
7MC2027-2CA40
7MC2027-3CA40

Further designs

Please add "-Z" to Order No., and specify Order code(s) and plain text.

Order code

- Different design (mounting length, protective tube material etc.), specify in plain text.
- TAG plate made of stainless steel specify TAG No. in plain text
- Calibration carried out at one point, specify desired temperature in plain text (order equivalent number of times for several calibration points).

Y01

Y15

Y33