



Mineral insulated or stainless steel sheathed thermocouple with cable

SFK / SFKI

- Thermocouple types T, J, K, N or S.
- Measuring range from **-40°C to +1000°C**
- Sheath of 316 L Stainless steel or Inconel 600

Part numbers for stainless steel sheath 550°C max.

To order, just add the codes to complete the part number.

Type	Cable	Cable length (m)	Diameter (mm)	Probe length (mm)	Curve spring	Connectors
T J K N	PVC TB SVB	2 3 4 5 *	4 6 8 *	50 100 150 200 *	R -	MM Miniature plug FM Miniature socket MS Standard plug FS Standard socket - No connector

SF [] - [] - [] - [] - [] - [] - [] - []

*Other dimensions on request

[] - []
- Ungrounded
SCM Grounded

Example : SFJ-SVB-4-4-150-MM-SCM

Model : Thermocouple type J with grounded hot junction. Stainless steel protective sheath 4 mm Ø, length 150 mm without curve spring. Glass silk cable terminated in a miniature plug.

Part numbers for mineral insulated sheath 1000°C max.

Type	Cable	Cable length (m)	Diameter (mm)	Probe length (mm)	Curve spring	Connectors
TI JI KI NI SI	TB SVB	4 6 8 10 *	1,5 2 3 4,5 6 8	50 100 150 300 *	R -	MM Miniature plug FM Miniature socket MS Standard plug FS Standard socket

SF [] - [] - [] - [] - [] - [] - [] - []

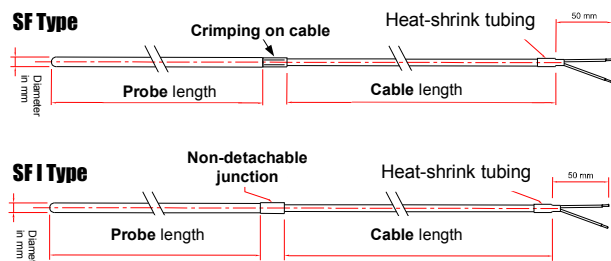
*Other dimensions on request

[] - []
- Ungrounded
SCM Grounded

Example : SFTI-SVB-4-15-50-MM-SCM

Model : Thermocouple type T with grounded hot junction. Inconel 600 protective sheath 1.5 mm Ø, length 150 mm without curve spring. Glass silk cable terminated in a miniature plug.

Dimensions



Technical feature

Working temperature..... For **SF** category
 from -40°C to +105°C for PVC cable
 from -40°C to +260°C for TB cable
 from -40°C to +400°C for SVB cable (Tc J)
 from -40°C to +550°C for SVB cable (Tc K and N)



See pot seal below

For **SF-I** category (mineral insulated)
 from -40°C to +350°C for Tc T
 from -40°C to +750°C for Tc J
 from -40°C to +1000°C for Tc K
 from -40°C to +1000°C for Tc N
 from 0°C to +1000°C for Tc S

- Accuracy for class 1**..... See "Tolerances" table
- Type of welding**..... Default ungrounded hot junction
 For grounded hot junction, SCM must be added at the end of the part number.
- Pot seal mounting**..... 5 mm Ø, length 50 mm, non-detachable for SF-I category with PVC cable shielded Teflon or glass silk.
 Max. temperature : 200°C
- Storage temperature**..... from -20°C to +80°C
- Output** stripped wires, miniature or standard plugs available on request.

Tolerances

TC	Measuring range CLASS 1	TOLERANCE
T	From -40°C to +350°C	From -40°C to +125°C ± 0.5°C From 125°C to +350°C ± 0.004 x T°
J	From -40°C to +750°C	From -40°C to +375°C ± 1.5°C From 375°C to 750°C ± 0.004 x T°
K	From -40°C to +1000°C	From -40°C to +375°C ± 1.5°C From 375°C to 1000°C ± 0.004 x T°
N	From -40°C to +1000°C	From -40°C to +375°C ± 1.5°C From 375°C to 1000°C ± 0.004 x T°
S	From 0°C to +1600°C	From 0 to +1100°C ± 1°C From 1100°C to 1600°C ± (1 + 0.003*(T°-1100))

■ Most common thermocouple types

THERMOCOUPLE TYPES	+ CONDUCTOR	- CONDUCTOR	COLOR OF COMPENSATING CABLE
K	Chromel	Alumel	Ext. color + = GREEN, - = WHITE
T	Copper	Constantan	Ext. color + = BROWN, - = WHITE
J	Iron	Constantan	Ext. color + = BLACK, - = WHITE
N	Nicrosil	Nisil	Ext. color + = PINK, - = WHITE
R	Platinum-13% Rhodium	Platinum	Ext. color + = ORANGE, - = WHITE
S	Platinum-10% Rhodium	Platinum	Ext. color + = ORANGE, - = WHITE
B	Platinum-30%Rhodium	Platinum- 6%Rhodium	Ext. color + = GREY, - = WHITE

■ Accessories (See Datasheet)

- Extension cable
- Compensating cable
- Standard or miniature connector
- Cable seal for plug and socket connector
- Miniature or standard fixed connector
- Miniature or standard connectors panel
- Extension lead
- Converters

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