



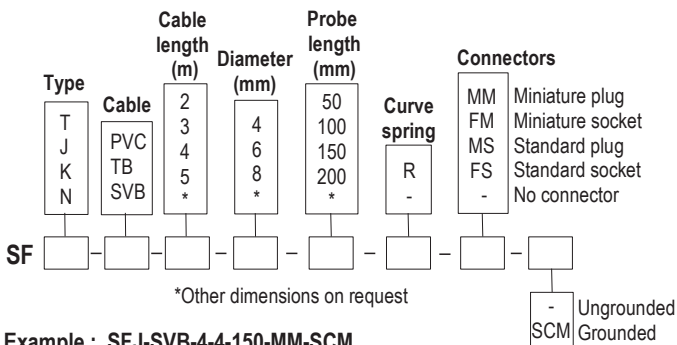
**Mineral insulated or stainless steel sheathed thermocouple with cable**

**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.**

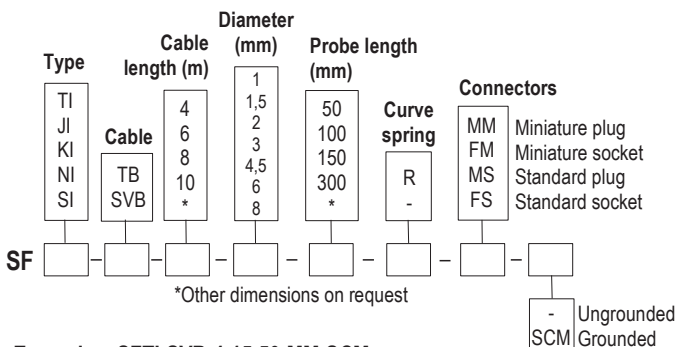
To order, just add the codes to complete the part number.



**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.

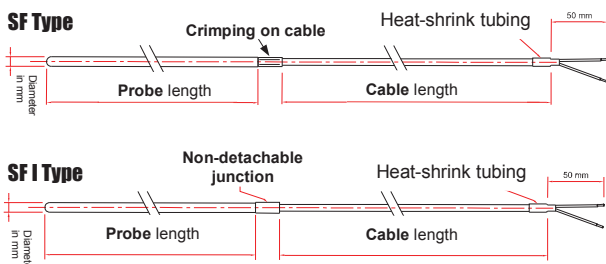
**Part numbers for mineral insulated sheath 1000°C max.**



**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\* of the probe**

As per IEC 584-3 norm

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))

\* Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

## ■ 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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**EXPORT DEPARTMENT**

Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29

e-mail : [export@kimo.fr](mailto:export@kimo.fr)

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