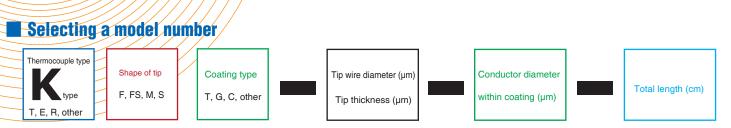
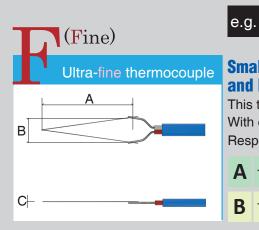


Ultra High-Speed Response Thermocouple

A tineness and thinness that are top-level in the industry ~



* Custom thermocouples are also available. Feel free to contact us.

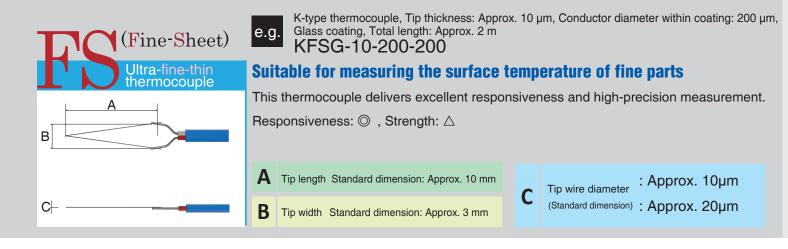


K-type thermocouple, Tip wire diameter: $25 \ \mu$ m, Conductor diameter within coating: $200 \ \mu$ m, Glass coating, Total length: Approx. 2 m KFG-25-200-200

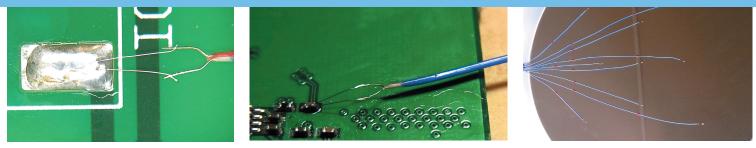
Small thermocouple heat capacity, delivering excellent responsiveness and high-precision measurement

This thermocouple is ideal for measuring the temperature of fine parts as well as gas. With our unique ultra-fine wire structure at the tip, the instrument is easy to use. Responsiveness: \bigcirc , Strength: \triangle

- A Tip length Standard dimension: Approx. 10 mm
- **B** Tip width Standard dimension: Approx. 3 mm
- C Tip wire diameter (Standard dimension) : 13μm : 25μm : 50μm



Thermocouple mounting examples

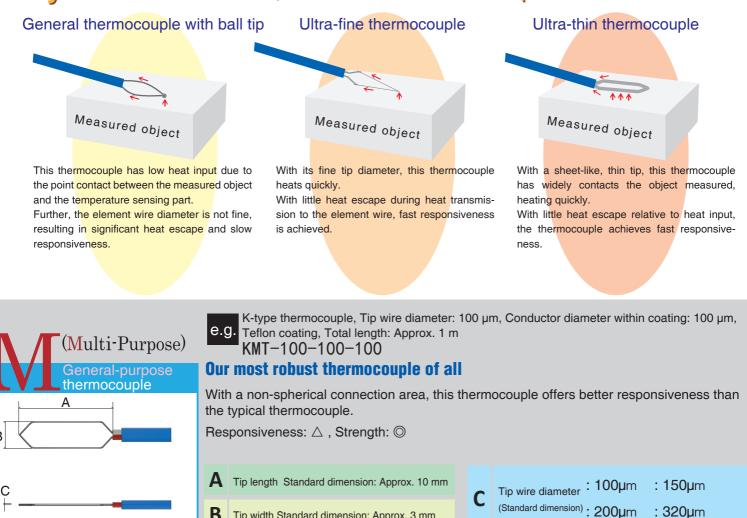


Mounting to base

Mounting to base

Mounting to wafer

Why? Is an ultra-fine, ultra-thin thermocouple better?



B Tip width Standard dimension: Approx. 3 mm

e.g. K-type thermocouple, Tip wire thickness: Approx. 40 μm, Conductor diameter within coating: 200 μm, Teflon coating, Total length: Approx. 3 m KST-40-200-300

Suitable for measuring the surface temperature of flat and curved surfaces such as metal plates

С

This thermocouple delivers fast responsiveness and durability with its integrated structure.

Responsiveness: O , Strength: O

- A Tip length Standard dimension: Approx. 10 mm
- B Tip width Standard dimension: Approx. 3 mm

:	App
Tip wire diameter	App
(Standard dimension)	
	Ann

Approx. 20µm (100µm)

*The number in () indicates the conductor diameter within the coating

- : Approx. 40µm (100µm/150µm/200µm)
- Approx. 60µm (320µm)



(Sheet)

F

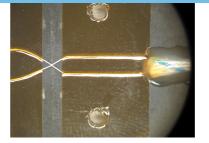
С

Ultra-thin thermocouple

Mounting to ceramic capacitor



Mounting to stainless disk product





Mounting to glass epoxy plate

Mounting to engine product

Tip options



Tip soldered coating (S) With soldering between the thermocouple tip and measured object



Kapton tape cover (KC) Places importance on tip strength



Kapton tape reinforcement (R) Improves the strength of the tip while maintaining responsiveness



Insulation coating (IC) Prevents shortcuts at the temperature measurement location



Baking process (F1/F2) Pre-baking suppresses smoke emission during use

Options

End options

Omega mini connector mounting



SMPW (Heat resistance: 180°C)



HMPW (Heat resistance: 260°C)



SHX (Heat resistance: 650°C)



Simple copper Y terminal (YY) Y terminal (M3, M4) Mounting of round terminal, etc. Feel free to contact us



K-type pure Y terminal (Y) Mounting of Y terminal (M4) made of thermocouple material Can be cut on one side, allowing placement on an M3 terminal block



Multi-pin (MP) Mounting of Omega SMTC series, etc., made of thermocouple material

Other options



Compensating lead wire When extending the total length with a thermocouple wire is desired



Plastic board packaging (PP) Can be brought into a clean room

Insulation with polyimide tube Wire diameters: 200 μm, 150 μm, 127 μm



Before repair

After repair

Thermocouple coating type and features

Features of various thermocouple wires

Glass: Inexpensive and easy to handle.Can be used under hon-condensing conditions. Teflon: Water resistant, chemical resistant, and suitable for use in clean rooms, etc. T (SF) delivers the highest flexibility, and T (TW) delivers a noise prevention effect. Most heat-resistant.

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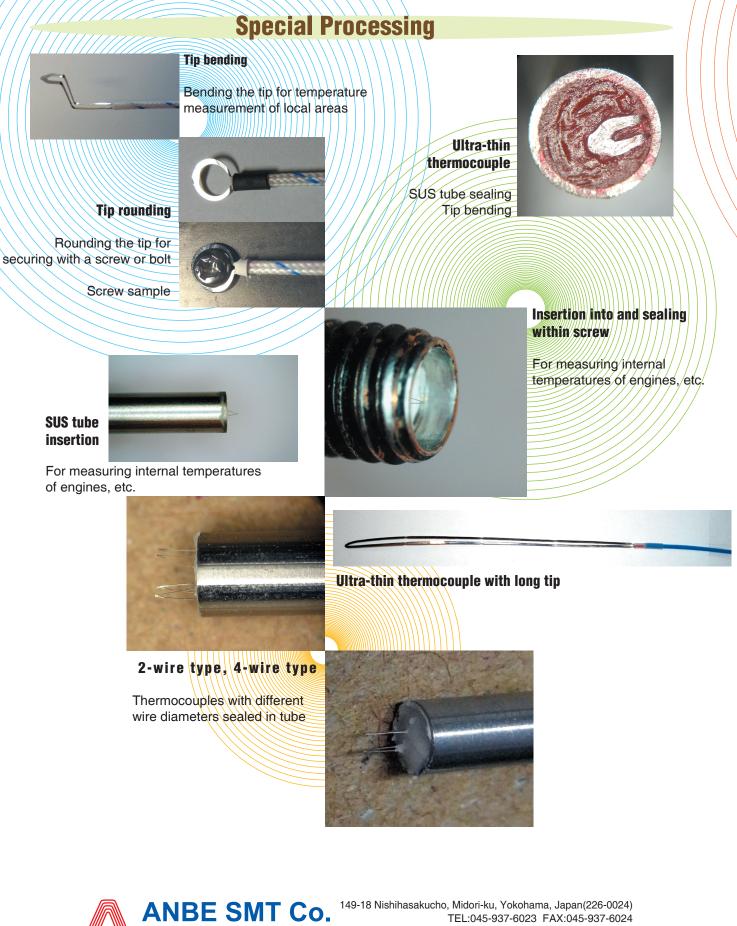
Shield: Delivers a noise prevention effect.

Coating type	Element wire diameter (µm)	Estimated coating outer diameter (mm)	Flexibility	Operating temperature (°C) range	Coating code
	100	0.8×1.2	0		
Glass	150	0.5×0.7	Ø	Room temperature to 250	G
	200	0.9×1.3	0		G
	320	1.4×2.3	×		
	100	0.8×1.2	0		
Teflon	200	0.9×1.4	\bigtriangleup	-200 to 260	т
	320	1.0×1.6	×		
Teflon super fine	100	0.42×0.68	\bigcirc	-200 to 260	T(SF)
	100	0.4×0.8	Ø		
Teflon twisted wire	200	0.5×1.0	0	-200 to 260	T(TW)
	320	0.6×1.2	Δ		
Ceramic	200	1.4×2.3	0	Room temperature	с
Ceramic	320	1.6×2.4	\bigtriangleup	to 400	
Glass outer shield	200	1.5×1.9	×	Room temperature to 250	G(OS)
Teflon outer shield	200	1.5×2.0	×	-200 to 260	T(OS)

Other Products Available					
Туре	Overview				
Silver paste 5 g	5 g of conductive adhesive silver paste.				
Kapton tape	One roll or 50 cm of tape.				
Data logger	GL900-4 and NR-500 are available. Thermocouple services.				
Other	Various thermocouple wires and connectors.				

Custom orders are welcome, including for single products.

We also offer mounting services for mounting the thermocouple to the measured object.



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