



Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor

KFEL

High-elongation Foil Strain Gages

These foil strain gages are for measuring strain from the structural elastic region to the plastic region of various structures. They are capable of measuring from approximately 10 to 15% high-elongation strain in simple tensile strain.

*For plastic materials such as polyethylene and polypropylene that make bonding difficult (hard-to-bond materials), treatment with S-9B surface treatment agent will be required in addition to standard sandpapering. After treatment, attach using CC-36 adhesive.

Contact us for information on bonding conditions for other special materials.

Operating Temperature

Operating Temperature	Applicable Adhesives
-10 to 80°C	CC-36

Models

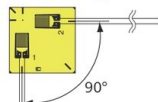
Patterns, Gage Resistance, Gage Factor	Model	Dimensions (mm)				Remarks
		Gage (Grid)		Base		
		Length	Width	Length	Width	
Uniaxial Resistance: 120 Ω, Gage factor: Approx. 2.1	KFEL-5-120-C1	5	2.1	11	3.5	
	KFEL-2-120-C1	2	2.1	8	4	



*The above picture is KFEL-5-120-C1.

Biaxial, 0°/90°

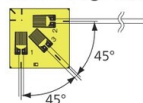
Resistance: 120 Ω, Gage factor: Approx. 2.1



*The above picture is KFEL-2-120-D34.

Triaxial, 0°/90°/45°

Resistance: 120 Ω, Gage factor: Approx. 2.1



*The above picture is KFEL-2-120-D35.

Types, lengths and codes of lead-wire cables pre-attached to KFEL

	2 polyester-coated copper wires	Vinyl-coated flat 2-wire cables		Vinyl-coated flat 3-wire cables	
		C1	D34,D35	C1	D34,D35
15 cm	N15C2	L15C2R	L15C2S	L15C3R	L15C3S
30 cm	N30C2	L30C2R	L30C2S	L30C3R	L30C3S
1 m	N1M2	L1M2R	L1M2S	L1M3R	L1M3S
3 m	-	L3M2R	L3M2S	L3M3R	L3M3S
5 m	-	L5M2R	L5M2S	L5M3R	L5M3S
Operating Temperature	-10 to 80°C				
Remarks	Twisted for ≥ 50 cm	L-6, L-9 for ≥ 6 m		L-7, L-10 for ≥ 6 m	

*For other lead-wire cable lengths, contact us.

*Notes on pre-attached lead-wire cables

In the case of a biaxial gage and triaxial gage, 2-wire cables are color-coded with red, white and green stripes for 0°, 90° and 45°, respectively and 3-wire cables, with red, yellow and blue stripes for 0°, 90° and 45°, respectively. The letter code is S in common.

How to order

When ordering, specify the model of the strain gage and the code of the lead-wire cable with a space in between.

E.g. KFEL-5-120-C1 with a vinyl-coated flat 2-wire cable 5 m long pre-attached → **KFEL-5-120-C1 L5M2R**

If no lead-wire cable code is suffixed, the gage is delivered with gage leads only. (Silver-covered copper wires 25 mm long)

*10 gages/pkg

RoHS