

# High-elongation Strain Gages

# KFEL

● Gage Factor	Approx. 2.1
● Resistance	120Ω
● Strain Limit at Room Temperature	10% to 15%

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

## High-elongation Foil Strain Gages

RoHS

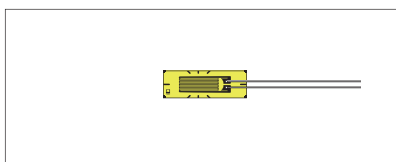
Developed to measure strain in elastic to plastic regions on structures, the KFEL gages can measure strain as large as 10% to 15% with simple tension strain.

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

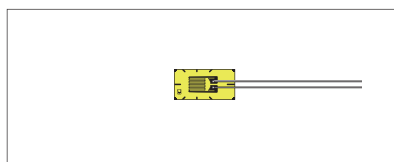
Type	2 polyester-coated copper wires	Vinyl-coated flat 2-wire cable		Vinyl-coated flat 3-wire cable	
Length	C1, D34, D35	C1	D34, D35	C1	D34, D35
15 cm	N15C2	L15C2R	L15C2S	L15C3R	L15C3S
30 cm	N30C2	L30C2R	L30C2S	L30C3R	L30C3S
1 m	N1M2	L1M2R	L1M2S	L1M3R	L1M3S
3 m	—	L3M2R	L3M2S	L3M3R	L3M3S
5 m	—	L5M2R	L5M2S	L5M3R	L5M3S
Operating temp.	-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.

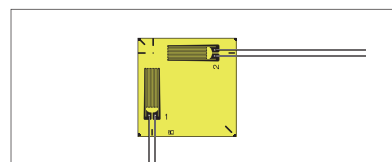
## KFEL ● Uniaxial, Biaxial, Triaxial



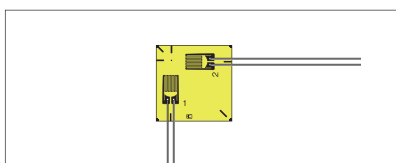
Models	<b>KFEL-5-120-C1</b>
Pattern	<b>Uniaxial</b>
Base	11 × 3.5 mm
Gage (Grid)	5 × 2.1 mm
Resistance	120 Ω
Pieces per Pack	10



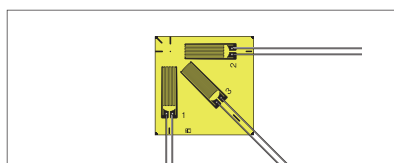
Models	<b>KFEL-2-120-C1</b>
Pattern	<b>Uniaxial</b>
Base	8 × 4 mm
Gage (Grid)	2 × 2.1 mm
Resistance	120 Ω
Pieces per Pack	10



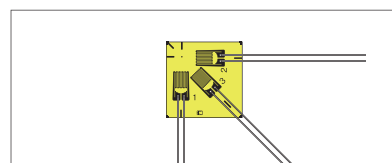
Models	<b>KFEL-5-120-D34</b>
Pattern	<b>Biaxial, 0°/90°</b>
Base	13 × 13 mm
Gage (Grid)	5 × 2.1 mm
Resistance	120 Ω
Pieces per Pack	10



Models	<b>KFEL-2-120-D34</b>
Pattern	<b>Biaxial, 0°/90°</b>
Base	10 × 10 mm
Gage (Grid)	2 × 2.1 mm
Resistance	120 Ω
Pieces per Pack	10



Models	<b>KFEL-5-120-D35</b>
Pattern	<b>Triaxial, 0°/90°/45°</b>
Base	13 × 13 mm
Gage (Grid)	5 × 2.1 mm
Resistance	120 Ω
Pieces per Pack	10



Models	<b>KFEL-2-120-D35</b>
Pattern	<b>Triaxial, 0°/90°/45°</b>
Base	10 × 10 mm
Gage (Grid)	2 × 2.1 mm
Resistance	120 Ω
Pieces per Pack	10

When ordering, specify the model number as follows.

**KFEL-□-120-□** Lead-wire Cable Code

e.g.) KFEL-5-120-C1 L1M3R

\*Values in □ and lead-wire cable code cannot be arbitrarily combined.

Lead-wire Cable Type and Shape	Oprg. Temp.	Length	Code
Vinyl-coated flat 3-wire cable L-7 (L-10 for 6 m or longer)	-10 to 80°C	1 m	L1M3R:L1M3S
		3 m	L3M3R:L3M3S
		5 m	L5M3R:L5M3S
Vinyl-coated flat 2-wire cable L-6 (L-9 for 6 m or longer)	-10 to 80°C	1 m	L1M2R:L1M2S
		3 m	L3M2R:L3M2S
		5 m	L5M2R:L5M2S
2 polyester-coated copper wires	-10 to 80°C	30 cm	N30C2
		50 cm, 1 m	N50C2
		1 m	N1M2
Silver-covered copper wires	-10 to 80°C	25 mm	

\*Gage (Grid): Length × Width