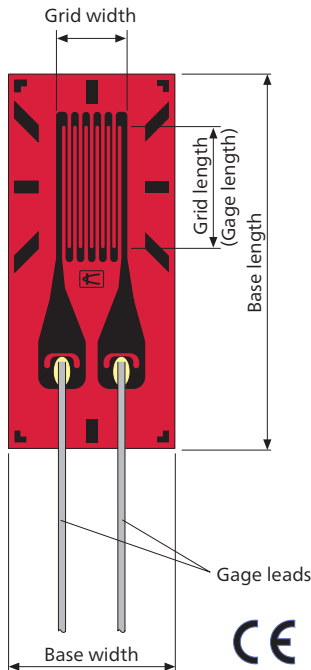


General-purpose Foil Strain Gages KFGS

● General-purpose Foil Strain Gages KFGS NEW



The KFGS series gages use polyimide resin for the base part that is approx. 13 µm thick. It ensures excellent flexibility. The outstanding moisture proof enables the KFGS gages to operate in outdoor measurement effectively. Unless directly exposed to water drop, no coating treatment is required.

Applicable Adhesives and Operating Temperature Range after Curing





Adhesives	Operating Temperature after Gluing the Gages
CC-33A	-196 to 120°C
CC-35	-30 to 120°C
CC-36	-30 to 100°C
EP-340	-55 to 150°C
PC-600	-196 to 150°C

* For vinyl-coated cables the operating temperature is -10 to 80°C.

Notes on pre-attached lead-wire cables

- Standard color of the 2-wire cable pre-attached to uniaxial gages is red (R). If desired, allows a white, green, yellow or black cable to be pre-attached.
- Standard 3-wire cable pre-attached to uniaxial gages has red stripes. If desired, allows the red stripes to be changed to blue or yellow stripes.
- In the case of a 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.

■ Types, lengths and codes of lead-wire cables pre-attached to KFGS series gages

Types	Polyester coated 2-wire copper cables	Polyester coated 3-wire copper cables	Vinyl-coated flat 2-wire cables		Vinyl-coated flat 3-wire cables		Mid-temperature 2-wire cables	Mid-temperature 3-wire cables
								
Length	C1,C2,C3,C15, C16,D1,D2,D3, D4,D6,D9,D16, D17,D19,D28, D31,D39	C1,C2,C3, C15,C16, D1,D4,D9, D16,D17,D19, D28,D39	C1,C2,C3, C15,C16, D9,D19	D1,D4, D16,D17, D28, D39	C1,C2,C3, C15,C16, D2,D9,D19, D31	D1,D4, D16,D17, D28, D39	C1,C2,C3, C15,C16, D1,D4,D9, D16,D17,D19, D28,D39	C1,C2,C3, C15,C16, D1,D2,D4,D9, D16,D17,D19, D28,D31,D39
15 cm	N15C2	N15C3	L15C2R	L15C2S	L15C3R	L15C3S	R15C2	R15C3
30 cm	N30C2	N30C3	L30C2R	L30C2S	L30C3R	L30C3S	R30C2	R30C3
1 m	N1M2	N1M3	L1M2R	L1M2S	L1M3R	L1M3S	R1M2	R1M3
3 m	—	—	L3M2R	L3M2S	L3M3R	L3M3S	R3M2	R3M3
5 m	—	—	L5M2R	L5M2S	L5M3R	L5M3S	R5M2	R5M3
Operating temp.	-196 to 150°C		-10 to 80°C				-100 to 150°C	
Remarks	Twisted for ≥50 cm (Exceptions exist)		L-6, L-9 for ≥6 m		L-7, L-10 for ≥6 m		L-11	L-12

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

When ordering, place a space after the model number, then place the code of lead-wire cable.

E.g.


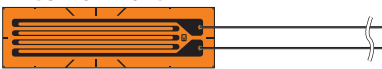






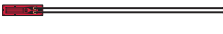



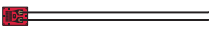
- KFGS-5-120-C1-11 N15C2 for the gage with a polyester-coated 2-wire copper cable 15 cm long → [KFGS-5-120-C1-11 N15C2](#)
- KFGS-5-120-C1-11 L5M2R for the gage with a vinyl-coated flat 2-wire cable 5 m long → [KFGS-5-120-C1-11 L5M2R](#)
- KFGS-5-120-D17-11 L5M3S for the gage with a vinyl-coated flat 3-wire cable 5 m long → [KFGS-5-120-D17-11 L5M3S](#)
- KFGS-5-120-C1-11 R5M3 for the gage with a mid-temperature 3-wire cable 5 m long → [KFGS-5-120-C1-11 R5M3](#)
- KFGS-5-120-D17-11 R5M2 for the gage with a mid-temperature 2-wire cable 5 m long → [KFGS-5-120-D17-11 R5M2](#)

If there is no code of lead-wire cable after the model number, the gage is delivered with silver-clad copper wires 25 mm long.

For the types of lead-wire cables, see pages 1-15 and 1-16.



General-purpose Foil Strain Gages KFGS

Patterns Gage Resistance, Gage Factors	Models	Base Color *1	Dimensions (mm)				Remarks
			Grid		Base		
			Length	Width	Length	Width	
Uniaxial		Note: *1 Base color stands for different coefficients of linear expansion.					
Silver-clad copper gage leads 25 mm long Resistance: 120 Ω Gage factors: Approx. 2.1							
						<ul style="list-style-type: none"> ● Common steel ● Stainless steel ● Aluminum alloy ● Magnesium alloy or sometimes wood 	
KFGS-30-120-C1  The above picture is KFGS-30-120-C1-11	<ul style="list-style-type: none"> KFGS-30-120-C1-11 ● KFGS-30-120-C1-16 ● KFGS-30-120-C1-23 ● KFGS-30-120-C1-27 ● 	30	3.3	37	5.2		
KFGS-20-120-C1  The above picture is KFGS-20-120-C1-16	<ul style="list-style-type: none"> KFGS-20-120-C1-11 ● KFGS-20-120-C1-16 ● KFGS-20-120-C1-23 ● KFGS-20-120-C1-27 ● 	20	5	28	8		
KFGS-10-120-C1  The above picture is KFGS-10-120-C1-23	<ul style="list-style-type: none"> KFGS-10-120-C1-11 ● KFGS-10-120-C1-16 ● KFGS-10-120-C1-23 ● KFGS-10-120-C1-27 ● 	10	3	16	5.2		
KFGS-6-120-C1  The above picture is KFGS-6-120-C1-27	<ul style="list-style-type: none"> KFGS-6-120-C1-11 ● KFGS-6-120-C1-16 ● KFGS-6-120-C1-23 ● KFGS-6-120-C1-27 ● 	6	1.7	10	3.4		
KFGS-5-120-C1  The above picture is KFGS-5-120-C1-11	<ul style="list-style-type: none"> KFGS-5-120-C1-5 ● KFGS-5-120-C1-11 ● KFGS-5-120-C1-16 ● KFGS-5-120-C1-23 ● KFGS-5-120-C1-27 ● 	5	1.4	9.4	2.8	For wood	
KFGS-4N-120-C1  The above picture is KFGS-4N-120-C1-16	<ul style="list-style-type: none"> KFGS-4N-120-C1-11 ● KFGS-4N-120-C1-16 ● KFGS-4N-120-C1-23 ● KFGS-4N-120-C1-27 ● 	4	0.7	8	1.4		
KFGS-3-120-C1  The above picture is KFGS-3-120-C1-23	<ul style="list-style-type: none"> KFGS-3-120-C1-11 ● KFGS-3-120-C1-16 ● KFGS-3-120-C1-23 ● KFGS-3-120-C1-27 ● 	3	1.3	7.4	2.8		
KFGS-2-120-C1  The above picture is KFGS-2-120-C1-27	<ul style="list-style-type: none"> KFGS-2-120-C1-5 ● KFGS-2-120-C1-11 ● KFGS-2-120-C1-16 ● KFGS-2-120-C1-23 ● KFGS-2-120-C1-27 ● 	2	1.2	6.3	2.8	For wood	
KFGS-2N-120-C1  The above picture is KFGS-2N-120-C1-11	<ul style="list-style-type: none"> KFGS-2N-120-C1-11 ● KFGS-2N-120-C1-16 ● KFGS-2N-120-C1-23 ● KFGS-2N-120-C1-27 ● 	2	0.84	5.3	1.4		
KFGS-1-120-C1  The above picture is KFGS-1-120-C1-16	<ul style="list-style-type: none"> KFGS-1-120-C1-11 ● KFGS-1-120-C1-16 ● KFGS-1-120-C1-23 ● KFGS-1-120-C1-27 ● 	1	1.1	4.8	2.4		
KFGS-1N-120-C1  The above picture is KFGS-1N-120-C1-23	<ul style="list-style-type: none"> KFGS-1N-120-C1-11 ● KFGS-1N-120-C1-16 ● KFGS-1N-120-C1-23 ● KFGS-1N-120-C1-27 ● 	1	0.65	4.2	1.4		
KFGS-03-120-C1  The above picture is KFGS-03-120-C1-27	<ul style="list-style-type: none"> KFGS-03-120-C1-11 ● KFGS-03-120-C1-16 ● KFGS-03-120-C1-23 ● KFGS-03-120-C1-27 ● 	0.3	1.4	3.5	2.4		
KFGS-02-120-C1  The above picture is KFGS-02-120-C1-11	<ul style="list-style-type: none"> KFGS-02-120-C1-11 ● KFGS-02-120-C1-16 ● KFGS-02-120-C1-23 ● KFGS-02-120-C1-27 ● 	0.2	1.4	3.3	2.4		