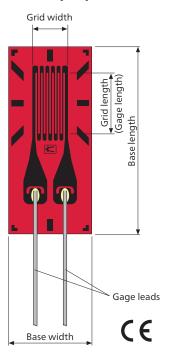
General-purpose Foil Strain Gages (KFGS)

General-purpose Foil Strain Gages KFGS NEW





The KFGS series gages use polyimide resin for the base that is approx. 13 µm thick. It ensures excellent flexibility. The outstanding moisture proof enables the KFGS gages to operate effectively both indoors and outdoors. Unless directly exposed to water droplets, no coating treatment is required.

Applicable Adhesives

	Operating Temperature after Curing the Adhesive
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 stripe of the 3-wire cable pre-attached to uniaxial gages is a red stripe. If desired, allows a blue or yellow stripe to be pre-attached.
- ●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.

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

Туре	2 polyester-coated copper wires	3 polyester-coated copper wires	Vinyl-coa 2-wire	ated flat cables		pated flat e 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	o 150°C		-10 to	80°C		-100 to	150°C
Remarks	Twisted for (There are o	or ≥50 cm exceptions.)	L-9 foi	-	_	7 or ≥6 m	L-11	L-12

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

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

E	g	

KFGS-5-120-C1-11	With 2 polyester-coated copper wires 15 cm long	\rightarrow	KFGS-5-120-C1-11 N15C2
KFGS-5-120-C1-11	With a vinyl-coated flat 2-wire cable 5 m long	\rightarrow	KFGS-5-120-C1-11 L5M2R
KFGS-5-120-D17-11	With a vinyl-coated flat 3-wire cable 5 m long	\rightarrow	KFGS-5-120-D17-11 L5M3S
KFGS-5-120-C1-11	With a mid-temperature 3-wire cable 5 m long	\rightarrow	KFGS-5-120-C1-11 R5M3
KFGS-5-120-D17-11	With a mid-temperature 2-wire cable 5 m long	\rightarrow	KFGS-5-120-D17-11 R5M2

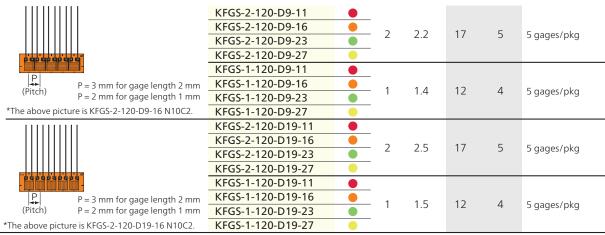
If no lead-wire cable code is suffixed, the gage is delivered with gage leads only. (Silver-covered copper wires 25 mm long)

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

Patterns	Models	Base	Dimensions (mm)				
Gage Resistance, Gage Factors		Color	Grid		Base		Remarks
dage Resistance, dage ractors		COIOI	Length	Width	Length	Width	
Uniaxial (For shearing str Resistance: 120 Ω Gage factor: Approx. 2.1	ain measureme	nt)					
, J	Torque measuremen in combination.	t is poss	ible b	y using	C15 an	d C16	
	KFGS-2-120-C15-11 KFGS-2-120-C15-16	•	- - 2	0.8	5.2	3	
*The above picture is KFGS-2-120-C15-11.	KFGS-2-120-C15-23 KFGS-2-120-C15-27	•	- 2	0.8	5.2	3	
V 2	KFGS-2-120-C16-11 KFGS-2-120-C16-16 KFGS-2-120-C16-23	•	- - 2	0.8	5.2	3	
*The above picture is KFGS-2-120-C16-11.	KFGS-2-120-C16-27		-				
Uniaxial 5-element (For α Resistance: 120 Ω	oncentrated str	ess m	easu	ireme	nt)		

Gage factor: Approx. 2.1

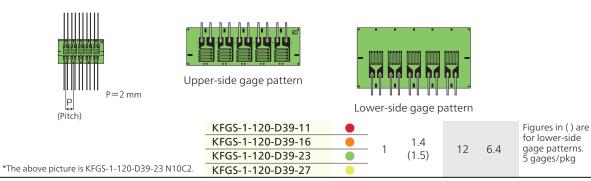
Pre-attached type: 2 polyester-coated copper wires (10 cm) + the specified lead-wire cable



Biaxial 5-element, stacked rosette (For concentrated stress measurement)

Resistance: 120 Ω Gage factor: Approx. 2.1

Pre-attached type: 2 polyester-coated copper wires (10 cm) + the specified lead-wire cable



Uniaxial 60Ω gages

Resistance: 60 Ω Use 2 gages in parallel connection. (Bending compensation is possible.) Gage factor: Approx. 2.1

	KFGS-5-60-C1-11					
	KFGS-5-60-C1-16		_	2	10	3.4
*The above picture is KFGS-5-60-C1-27.	KFGS-5-60-C1-23	•	Э	2	10	5.4
The above picture is KrG3-3-00-C1-27.	KFGS-5-60-C1-27					
	KFGS-2-60-C1-11					
	KFGS-2-60-C1-16		2	2.3	7.2	3.7
	KFGS-2-60-C1-23		2	2.5	1.2	5.7
*The above picture is KFGS-2-60-C1-27.	KFGS-2-60-C1-27					