

Gages for Concrete KFG & KC

Patterns, Gage Resistance, Gage Factor	Models	Dimensions (mm)				Remarks
		Grid		Base		
		Length	Width	Length	Width	

●KFG Series General-purpose Foil Strain Gages

Listed here are the KFG series gages with a suitable lead wire cable for strain measurement of concrete.

Applicable Adhesives and Operating Temperature Range after Curing
(With vinyl-coated flat cable)
CC-35: -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, a white, green, yellow or black cable can be pre-attached.

●Standard 3-wire cable pre-attached to uniaxial gages has red stripes (R). If desired, the red stripes can be changed to blue or yellow stripes.

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

●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. Letter code is S in common.


The following models with the lead wire cable code L1M3R are delivered with a vinyl-coated flat 3-wire cable 1 m long pre-attached.

KFG-30-120-C1-11 L1M3R	30	3.3	37	5.2
KFG-20-120-C1-11 L1M3R	20	5	28	8
KFG-10-120-C1-11 L1M3R	10	3	16	5.2

Uniaxial

Resistance: 120 Ω

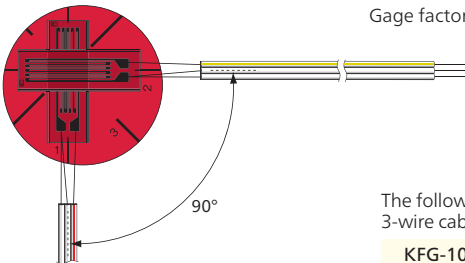
Gage factor: Approx. 2.1



Biaxial, 0°/90° stacked rosette

Resistance: 120 Ω

Gage factor: Approx. 2.1



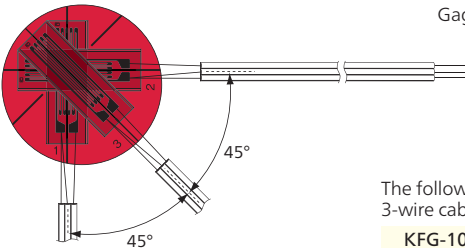
The following model with the lead wire cable code L1M3S is delivered with a vinyl-coated flat 3-wire cable 1 m long pre-attached.

KFG-10-120-D16-11 L1M3S	10	3	φ21
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Triaxial, 0°/90°/45° stacked rosette

Resistance: 120 Ω

Gage factor: Approx. 2.1



The following model with the lead wire cable code L1M3S is delivered with a vinyl-coated flat 3-wire cable 1 m long pre-attached.

KFG-10-120-D17-11 L1M3S	10	3	φ21
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Patterns, Gage Resistance, Gage Factor	Models	Dimensions (mm)				Remarks
		Grid		Base		
		Length	Width	Length	Width	

●KC Series Wire Strain Gages

When ordering, suffix the lead wire cable code (See table at the right) to the model number with a space in between.


E.g.
KC-120-120-A1-11 L5M2R
for the gage with a vinyl-coated flat 2-wire cable 5 m long

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

Uniaxial

Resistance: 120 Ω

Gage factor: Approx. 2.1



Featuring a longer gage length, the KC series gages are wire strain gages suitable for mean strain measurement of concrete under test. Usually, a model with the gage length over 3 times longer than the maximum diameter of the aggregate is selected for the purpose.

Applicable Adhesives and Operating Temperature Range after Curing
CC-35: -30 to 120°C

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

Types	Vinyl-coated flat 2-wire cable	Vinyl-coated flat 3-wire cable
	A1	
Length		
15 cm	L15C2R	L15C3R
30 cm	L30C2R	L30C3R
1 m	L1M2R	L1M3R
3 m	L3M2R	L3M3R
5 m	L5M2R	L5M3R
Oprg. temp. range	-10 to 80°C	
Remarks	L-6, L-9 for 6 m or longer	L-7, L-10 for 6 m or longer

* For other lead wire cable lengths, contact us.

KC-120-120-A1-11	120	0.6	132	6
KC-80-120-A1-11	84	0.6	95	8
KC-70-120-A1-11	67	0.6	80	7.5
KC-60-120-A1-11	60	0.6	74	8