Gages for Concrete KFGS & KC

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

●KFGS Series General-purpose Foil Strain Gages NEW

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

Listed here are the KFGS 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, allows a white, green, yellow or black cable to be pre-attached.
- Standard 3-wire cable pre-attached to uniaxial gages has red stripes (R). If desired, allows the red stripes to 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.

Uniaxial

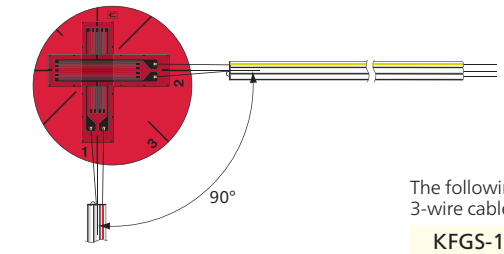
Resistance: 120 Ω
Gage factor: Approx. 2.1

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.

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

Biaxial, 0°/90° stacked rosette

Resistance: 120 Ω
Gage factor: Approx. 2.1

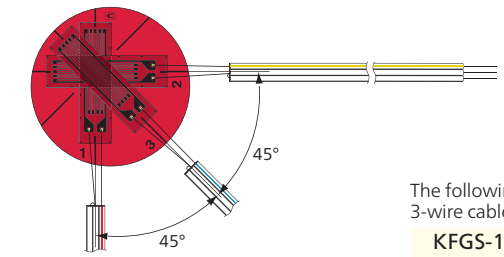


The following model with the lead-wire cable code L1M3S is delivered with a vinyl-coated flat 3-wire cable 1 m long pre-attached.

KFGS-10-120-D16-11 L1M3S	10	3	ϕ21

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.

KFGS-10-120-D17-11 L1M3S	10	3	ϕ21

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

●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).

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

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

Uniaxial

Resistance: 120 Ω
Gage factor: Approx. 2.1

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

10 gages/ pkg