

Gages for Concrete (KFGS & KC)

Patterns,
Gage Resistance, Gage Factor

Models

Dimensions (mm)

Gage (Grid)

Length

Width

Base

Length

Width

Remarks

●KFGS Series General-purpose Foil Strain Gages

NEW

RoHS

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

Applicable Adhesives (With vinyl-coated flat cable)

| | Operating Temp. after Curing the Adhesive |
|-------|---|
| 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 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.


The following models 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 |

Uniaxial

Resistance: 120 Ω

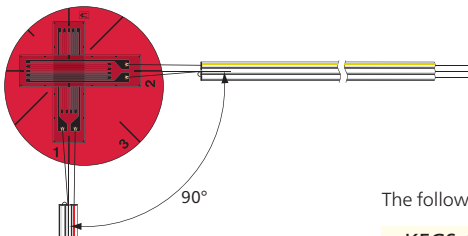
Gage factor: Approx. 2.1



Biaxial, 0°/90° stacked rosette

Resistance: 120 Ω

Gage factor: Approx. 2.1



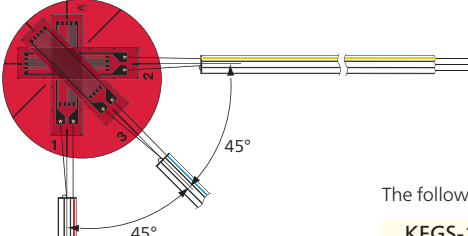
The following model is delivered with a vinyl-coated flat 3-wire cable 1 m long pre-attached.

| | | | |
|--------------------------|----|---|-----|
| 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 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)

Gage (Grid)

Length

Width

Base

Length

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.

For the gage with a vinyl-coated flat 2-wire cable 5 m long

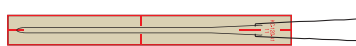
→ KC-120-120-A1-11 L5M2R

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

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

| | Operating Temp. after Curing the Adhesive |
|-------|---|
| CC-35 | -30 to 120°C |

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

| Type | 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 |
| 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.

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