Gages for Concrete

Pattern, Gage Resistance, Gage Factor	Model	Dimensions (mm)				Remarks
		Grid		Base		
		Length	Width	Length	Width	

●KFG Series General-purpose Foil Strain Gages

※For the types and lengths of leadwire cables, refer to page 1-17.

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

Applicable Adhesives and Operating Temperature Range after Curing (with vinyl-coated flat cable)
PC-12B：-10~80℃   CC-35：-10~80℃

Notes on pre-attached leadwire 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 wth 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 wth red, white and green stripes for 0° and 90° and 45°, respectively and 3-wire cables, with red, yellow and blue stripes for 0° and 90° and 45°, respectively. Letter code is S in common.

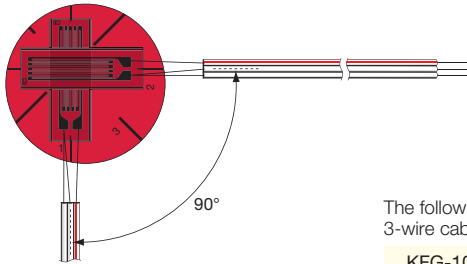### Uniaxial
Resistance : 120Ω, Gage factor : Approx. 2.1

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

Model	Grid Length	Grid Width	Base Length	Base Width
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

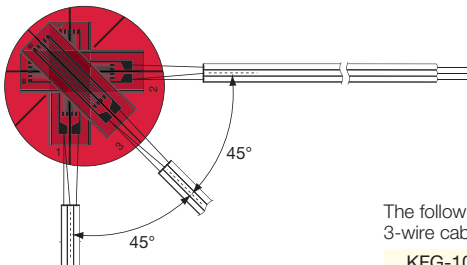### Biaxial, 0°/90° stacked rosette
Resistance : 120Ω, Gage factor : Approx. 2.1

90°

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

Model	Grid Length	Grid Width	Base
KFG-10-120-D16-11 L1M3S	10	3	φ21

Triaxial, 0°/90°/45° stacked rosette
Resistance : 120Ω, Gage facto r: Approx. 2.1

45°

45°

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

Model	Grid Length	Grid Width	Base
KFG-10-120-D17-11 L1M3S	10	3	φ21

●KC Series Wire Strain Gages

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.

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

Applicable Adhesives and Operating Temperature Range after Curing
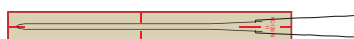PC-12B：-196~150℃   CC-35：-30~120℃

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

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

Uniaxial
Resistance : 120Ω, Gage factor : Approx. 2.1

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

Type / Length	Vinyl-coated flat 2-wire cable A1	Vinyl-coated flat 3-wire cable A1	Type / Length	Vinyl-coated flat 2-wire cable A1	Vinyl-coated flat 3-wire cable A1
15 cm	L15C2R	L15C3R	7 m	L7M2R	L7M3R
30	L30C2R	L30C3R	8	L8M2R	L8M3R
50	L50C2R	L50C3R	9	L9M2R	L9M3R
1 m	L1M2R	L1M3R	10	L10M2R	L10M3R
2	L2M2R	L2M3R	15	L15M2R	L15M3R
3	L3M2R	L3M3R	20	L20M2R	L20M3R
4	L4M2R	L4M3R	25	L25M2R	L25M3R
5	L5M2R	L5M3R	30 m	L30M2R	L30M3R
6	L6M2R	L6M3R			
Oprg. temp. range	-10~80℃		Oprg. temp. range	-10~80℃	
Remarks	L-6, L-9 for 6 m or longer	L-7, L-10 for 6 m or longer	Remarks	L-6, L-9 for 6 m or longer	L-7, L-10 for 6 m or longer

Model	Grid Length	Grid Width	Base Length	Base Width
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

For further information please contact:

TEST **M**ACHINES **A**USTRALIA
0418 369 505
sales@testmachines.com.au
www.testmachines.com.au

A minimum quantity 10 piece