

Waterproof Strain Gages




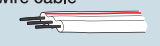
Pattern, Gage Resistance, Gage Factor	Model	Dimensions (mm)				Remarks
		Grid		Base		
		Length	Width	Length	Width	

●KFW Series Waterproof Foil Strain Gages

The KFW series foil strain gages have the surface covered with a special resin for waterproofing. The waterproof structure enables these gages to serve for outdoor or underwater measurement merely by being bonded to measuring objects. The insulation resistance shows virtually no deterioration even after 100 hours of use under an underwater pressure of approximately 10 MPa. In addition, the covering resin is flexible enough to enable easy bonding to curved surfaces.

Applicable Adhesives and Operating Temperature Range after Curing
 CC-33A : -10~80°C CC-36 : -10~80°C EP-180 : -10~80°C

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

Type	Vinyl-coated flat 2-wire cable 		Vinyl-coated flat 3-wire cable 	
	C1	D16,D17	C1	D16,D17
Length				
15 cm	L15C2R	L15C2S	L15C3R	L15C3S
30	L30C2R	L30C2S	L30C3R	L30C3S
50	L50C2R	L50C2S	L50C3R	L50C3S
1 m	L1M2R	L1M2S	L1M3R	L1M3S
2	L2M2R	L2M2S	L2M3R	L2M3S
3	L3M2R	L3M2S	L3M3R	L3M3S
4	L4M2R	L4M2S	L4M3R	L4M3S
5	L5M2R	L5M2S	L5M3R	L5M3S
6	L6M2R	L6M2S	L6M3R	L6M3S
7	L7M2R	L7M2S	L7M3R	L7M3S
8	L8M2R	L8M2S	L8M3R	L8M3S
9	L9M2R	L9M2S	L9M3R	L9M3S
10	L10M2R	L10M2S	L10M3R	L10M3S
15	L15M2R	L15M2S	L15M3R	L15M3S
20	L20M2R	L20M2S	L20M3R	L20M3S
25	L25M2R	L25M2S	L25M3R	L25M3S
30 m	L30M2R	L30M2S	L30M3R	L30M3S
Oprg. temp. range	-10~80°C			
Remarks	L-6, L-9 for 6 m or longer		L-7, L-10 for 6 m or longer	

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

Examples :

KFW-5-120-C1-11 L2M2R

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

KFW-5-120-D17-11 L5M3S

for the gage with a vinyl-coated flat 3-wire cable 5 m long

These gages are also available with 350Ω resistance.

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 with red and white stripes for 0° and 90°, respectively and 3-wire cables, with red and yellow stripes for 0° and 90°, respectively.
- In the case of a triaxial gage, 2-wire cables are color-coded with 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.

Uniaxial

Resistance : 120Ω, Gage factor : Approx. 2,1

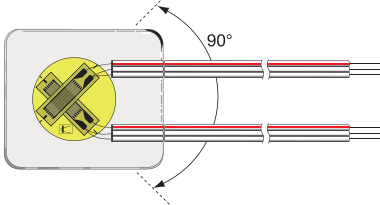


The following models with the leadwire cable code L1M3R are delivered with a vinyl-coated flat 3-wire cable 1 m long pre-attached.

KFW-5-120-C1-11 L1M3R				
KFW-5-120-C1-16 L1M3R	5	2	30	12
KFW-5-120-C1-23 L1M3R				
KFW-2-120-C1-11 L1M3R				
KFW-2-120-C1-16 L1M3R	2	2.3	30	12
KFW-2-120-C1-23 L1M3R				

Biaxial, 0°/90° stacked rosette

Resistance : 120Ω, Gage factor: Approx. 2.1

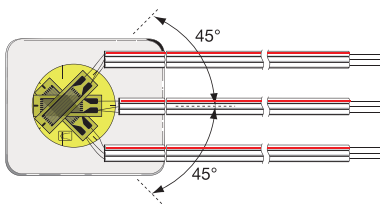


The following models with the leadwire cable code L1M3R are delivered with a vinyl-coated flat 3-wire cable 1 m long pre-attached.

KFW-5-120-D16-11 L1M3S				
KFW-5-120-D16-16 L1M3S	5	2	21	18
KFW-5-120-D16-23 L1M3S				
KFW-2-120-D16-11 L1M3S				
KFW-2-120-D16-16 L1M3S	2	1.4	21	18
KFW-2-120-D16-23 L1M3S				

Triaxial, 0°/90°/45° stacked rosette

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.

KFW-5-120-D17-11 L1M3S				
KFW-5-120-D17-16 L1M3S	5	2	21	18
KFW-5-120-D17-23 L1M3S				
KFW-2-120-D17-11 L1M3S				
KFW-2-120-D17-16 L1M3S	2	1.4	21	18
KFW-2-120-D17-23 L1M3S				