

# Waterproof Strain Gages (KFWB)

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

## ●KFWB Series Waterproof Foil Strain Gages

### RoHS

The surface of the KFWB series foil strain gage is covered with a special waterproof resin. 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

	Operating Temp. after Curing the Adhesive
CC-33A	-10 to 80°C
CC-36	-10 to 80°C
EP-340	-10 to 80°C

■Types, lengths and codes of lead-wire cables pre-attached to KFWB series gages  
For other lead-wire cable lengths, contact us.

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



E.g.

KFWB-5-120-C1-11 with a vinyl-coated flat 2-wire cable 2 m long

→ **KFWB-5-120-C1-11 L2M2R**

KFWB-5-120-D17-11 with a vinyl-coated flat 3-wire cable 5 m long

→ **KFWB-5-120-D17-11 L5M3S**

Type Length	Vinyl-coated flat 2-wire cable 		Vinyl-coated flat 3-wire cable 	
	C1	D16, D17	C1	D16, D17
15 cm	L15C2R	L15C2S	L15C3R	L15C3S
30 cm	L30C2R	L30C2S	L30C3R	L30C3S
1 m	L1M2R	L1M2S	L1M3R	L1M3S
3 m	L3M2R	L3M2S	L3M3R	L3M3S
5 m	L5M2R	L5M2S	L5M3R	L5M3S
Operating temp.	-10 to 80°C			
Remarks	L-6, L-9 for ≥ 6 m		L-7, L-10 for ≥ 6 m	

These gages are also available with 350Ω resistance.

#### Notes on pre-attached lead-wire cables

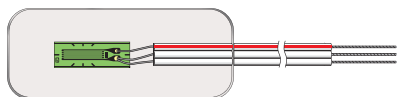
- Standard color of the 2-wire cable pre-attached to uniaxial gages is red (R). If desired, allows a white, green, yellow or black cable to be pre-attached.
- Standard 3-wire cable pre-attached to uniaxial gages has red stripes (R). If desired, allows the red stripes to be changed to blue or yellow stripes.
- 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 5 in common.

## Uniaxial

Resistance: 120 Ω

Gage factor: Approx. 2.1



\*The above picture is KFWB-5-120-C1-23 L1M3R.

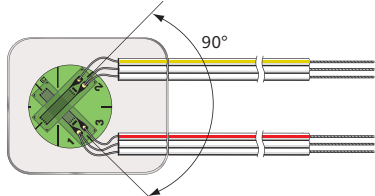
The following models are delivered with a vinyl-coated flat 3-wire cable 1 m long pre-attached.

KFWB-5-120-C1-11 L1M3R				
KFWB-5-120-C1-16 L1M3R	5	1.4	30	12
KFWB-5-120-C1-23 L1M3R				
KFWB-2-120-C1-11 L1M3R				
KFWB-2-120-C1-16 L1M3R	2	1.2	30	12
KFWB-2-120-C1-23 L1M3R				

## Biaxial, 0°/90° stacked rosette

Resistance: 120 Ω

Gage factor: Approx. 2.1



\*The above picture is KFWB-5-120-D16-23 L1M3S.

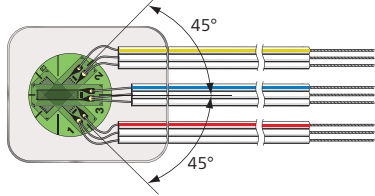
The following models are delivered with a vinyl-coated flat 3-wire cable 1 m long pre-attached.

KFWB-5-120-D16-11 L1M3S				
KFWB-5-120-D16-16 L1M3S	5	1.4	21	18
KFWB-5-120-D16-23 L1M3S				
KFWB-2-120-D16-11 L1M3S				
KFWB-2-120-D16-16 L1M3S	2	1.2	21	18
KFWB-2-120-D16-23 L1M3S				

## Triaxial, 0°/90°/45° stacked rosette

Resistance: 120 Ω

Gage factor: Approx. 2.1



\*The above picture is KFWB-5-120-D17-23 L1M3S.

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

KFWB-5-120-D17-11 L1M3S				
KFWB-5-120-D17-16 L1M3S	5	1.4	21	18
KFWB-5-120-D17-23 L1M3S				
KFWB-2-120-D17-11 L1M3S				
KFWB-2-120-D17-16 L1M3S	2	1.2	21	18
KFWB-2-120-D17-23 L1M3S				

10 gages/ pkg unless otherwise specified.