

General-purpose Foil Strain Gages (KFGS)

Patterns

Gage Resistance, Gage Factors

Models

Base Color

Dimensions (mm)

Gage (Grid)

LengthWidth

Base

LengthWidth

Remarks

●KFGS Series Foil Strain Gages with Gage Terminal

NEW

Uniaxial

Resistance: 120 Ω

Gage factor: Approx. 2.1

RoHS

KFGS gages equipped with a gage terminal enable one-touch-connection/disconnection of the lead-wire cable. They are suitable for residual stress measurement with the cutting method. A clip-equipped dedicated cable T-C26 (Vinyl-coated, 2 m long) is optionally available.

T-C26

(When the clip-equipped dedicated cable is used, the operating temperature range of each adhesive after curing is -10 to 80°C.)

*The above picture is KFGS-2-120-C1-11 T-F7.

Applicable Adhesives

	Operating Temp. after Curing the Adhesive		Operating Temp. after Curing the Adhesive
CC-36	-30 to 100°C	CC-35	-30 to 120°C
CC-33A	-196 to 120°C	EP-340	-55 to 120°C

KFGS-2-120-C1-11 T-F7	●	2	1.2	6.3	2.8	φ0.14 Polyester-coated copper cable 15 mm long
KFGS-2-120-C1-16 T-F7	●					
KFGS-2-120-C1-23 T-F7	●					
KFGS-1-120-C1-11 T-F7	●	1	1.1	4.8	2.4	φ0.14 Polyester-coated copper cable 15 mm long
KFGS-1-120-C1-16 T-F7	●					
KFGS-1-120-C1-23 T-F7	●					

Biaxial, 0°/90° stacked rosette

Resistance: 120 Ω

Gage factor: Approx. 2.1

90°

*The above picture is KFGS-2-120-D16-16 T-F7.

KFGS-2-120-D16-11 T-F7	●	2	1.2	φ8	φ0.14 Polyester-coated copper cable 15 mm long
KFGS-2-120-D16-16 T-F7	●				
KFGS-2-120-D16-23 T-F7	●				
KFGS-1-120-D16-11 T-F7	●	1	1.1	φ5	φ0.14 Polyester-coated copper cable 15 mm long
KFGS-1-120-D16-16 T-F7	●				
KFGS-1-120-D16-23 T-F7	●				

Triaxial, 0°/90°/45° stacked rosette

Resistance: 120 Ω

Gage factor: Approx. 2.1

45°

45°

*The above picture is KFGS-2-120-D17-23 T-F7.

KFGS-2-120-D17-11 T-F7	●	2	1.2	φ8	φ0.14 Polyester-coated copper cable 15 mm long
KFGS-2-120-D17-16 T-F7	●				
KFGS-2-120-D17-23 T-F7	●				
KFGS-1-120-D17-11 T-F7	●	1	1.1	φ5	φ0.14 Polyester-coated copper cable 15 mm long
KFGS-1-120-D17-16 T-F7	●				
KFGS-1-120-D17-23 T-F7	●				

●KFGS Series Foil Strain Gages for Boring Method

NEW

Triaxial, 0°/135°/90° RoHS plane arrangement

Resistance: 120 Ω

Gage factor: Approx. 2.1

135°

135°

90°

For KFGS gages with the lead-wire cable pre-attached, see page 1-18.

*The above picture is KFGS-3-120-D28-27.

Designed to measure residual stress released by the boring method.

Applicable Adhesives

	Operating Temp. after Curing the Adhesive		Operating Temp. after Curing the Adhesive
CC-33A	-196 to 120°C	EP-340	-55 to 150°C
CC-35	-30 to 120°C	PC-600	-196 to 150°C
CC-36	-30 to 100°C		

KFGS-3-120-D28-11	●	3	2	φ19.8	Diameter of gage center φ10.8
KFGS-3-120-D28-16	●				
KFGS-3-120-D28-23	●				
KFGS-3-120-D28-27	●	1.5	1.3	φ12	Diameter of gage center φ5.5
KFGS-1.5-120-D28-11	●				
KFGS-1.5-120-D28-16	●				
KFGS-1.5-120-D28-23	●				
KFGS-1.5-120-D28-27	●				



Outline

Lead-wire cable

General

Waterproof

Concrete

Composite material
PCB
PlasticsUltra-small strain
High temp.
Low temp.

High elongation

Non-
magnetoresistiveHydrogen gas
BendingWith protector
Embedded

Crack

Adhesive
Coating agentCustom-
designed