

Low-temperature Gages KFL

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

●KFL Series Low-temperature Foil Strain Gages

The gage element is made of NiCr alloy, which exhibits excellent characteristics under low-temperature environments and is sandwiched between polyimide films. Thus, the KFL series gages are suitable for strain measurement of tanks and vessels containing low-temperature liquids such as LNG and LPG.

Applicable Adhesives and Operating Temperature Range after Curing
 EP-270: -269 to 30 °C, PC-600: -269 to 150 °C, CC-33A: -196 to 120 °C

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

E.g.

KFL-5-120-C1-11 F5M3

for the gage with a fluororesin-coated high/low-temperature 3-wire cable 5 m long pre-attached

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

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

Types	Polyester-coated 2-wire copper cable	Polyester-coated 3-wire copper cable	Middle-temperature 2-wire cable	Middle-temperature 3-wire cable	Fluoroplastic-coated high/low-temp. 3-wire cable
	C1, D25				
Length					
15 cm	N15C2	N15C3	R15C2	R15C3	F15C3
30 cm	N30C2	N30C3	R30C2	R30C3	F30C3
1 m	N1M2	N1M3	R1M2	R1M3	F1M3
3 m			R3M2	R3M3	F3M3
5 m			R5M2	R5M3	F5M3
Oprg. temp. range	-196 to 150°C		-100 to 150°C		-269 to 150°C
Remarks	Twisted for 50 cm or longer		L-11	L-12	L-3

* For other lead wire cable lengths, contact us.

Uniaxial 350- gages

Resistance: 350 Ω

Gage factor: Approx. 2.1

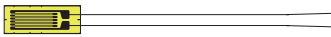


KFL-30-350-C1-5	30	2.7	36	5.2	Mainly for lumber
KFL-30-350-C1-11					Mainly for concrete

Uniaxial

Resistance: 120 Ω

Gage factor: Approx. 2.1



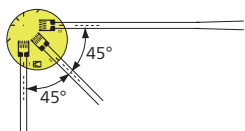
These gages are also available with 350Ω gage resistance, with a slight difference in size from 120Ω gages.

KFL-5-120-C1-11					
KFL-5-120-C1-16	5	2.5	10	3.7	
KFL-5-120-C1-23					
KFL-2-120-C1-11					
KFL-2-120-C1-16	2	2.5	6	3.7	
KFL-2-120-C1-23					
KFL-1-120-C1-11					
KFL-1-120-C1-16	1	1.5	4	2.7	
KFL-1-120-C1-23					
KFL-05-120-C1-11					
KFL-05-120-C1-16	0.5	1.4	3.3	2.7	
KFL-05-120-C1-23					
KFL-02-120-C1-11					
KFL-02-120-C1-16	0.2	1	2.5	2.2	
KFL-02-120-C1-23					

Triaxial, 0°/90°/45°

Resistance: 120 Ω

Gage factor: Approx. 2.1



These gages are also available with 350Ω gage resistance, with a slight difference in size from 120Ω gages.

KFL-1-120-D25-11					
KFL-1-120-D25-16	1	1.5	φ8		A min. qty 5 PC.
KFL-1-120-D25-23					
KFL-05-120-D25-11					
KFL-05-120-D25-16	0.5	1.4	φ7.5		A min. qty 5 PC.
KFL-05-120-D25-23					

A min. qty 10 PC.