General-purpose Foil Strain Gages KFR

Patterns, Gage Resistance, Gage Factor		Dimension		
•	Models	Grid	Base	Remarks
dage Resistance, dage ractor		Length Width	Length Width	

●KFR Series Foil Strain Gages The KFR series foil strain gages are durable and easy-to-use high-grade strain gages. The gage element is sandwiched between heat-resistant polyimide base and cover, thereby letting them exhibit high performance in a wide temperature range.

Applicable Adhesives and Operating Temperature Range after Curing

PC-600: -196 to 150°C CC-33A: -196 to 120°C CC-36: -30 to 100°C EP-340: -55 to 150°C

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

Types		Polyester-coated 3-wire copper cable*	Vinyl-coated fl	at 2-wire cable	Vinyl-coated flat 3-wire cable		Middle-temperature 2-wire cable	Middle-temperature 3-wire cable
Length	C1, D25		C1	D25	C1	D25	C1,	D25
15 cm	N15C2	N15C3	L15C2R	L15C2S	L15C3R	L15C3S	R15C2	R15C3
30 cm	N30C2	N30C3	L30C2R	L30C2S	L30C3R	L30C3S	R30C2	R30C3
1 m	N1M2	N1M3	L1M2R	L1M2S	L1M3R	L1M3S	R1M2	R1M3
3 m			L3M2R	L3M2S	L3M3R	L3M3S	R3M2	R3M3
5 m			L5M2R	L5M2S	L5M3R	L5M3S	R5M2	R5M3
Oprg. temp. range	-196 to	150°C		-10 to	80°C		-100 to 150°C	
Remarks	Twisted for 50	cm or longer	L-6, L-9 for 6	m or longer	L-7, L-10 for	6 m or longer	L-11	L-12

*For other lead wire cable lead wire, contact us.

When ordering, suffix the lead wire cable code to the model number with a space in between. (Except for 02N, D9 & D19)

E.g. KFR-5-120-C1-11 for the gage with a polyester-coated 3-wire copper cable 30 cm long → KFR-5-120-C1-11 N30C3 KFR-5-120-D25-11 for the gage with a vinyl-coated flat 3-wire cable 5 m long → KFR-5-120-D25-11 L5M3S If no lead wire cable code is suffixed, the gage is delivered with gage leads only (Silver-clad copper wires 25 mm long).

Uniaxial

Resistance: 120 Ω

Gage factor: Approx. 2.1 (KFR 02N: Approx. 1.9)

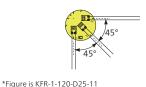
Except for KFR-02N, these KFR series gages are also available with the gage resistance of 350Ω .

The size is slightly different from 120Ω gages.

	KFR-5-120-C1-11 KFR-5-120-C1-16 KFR-5-120-C1-23	5	2.5	10	3.7	
	KFR-2-120-C1-11					
	KFR-2-120-C1-16	_ 2	2.5	6	3.7	
	KFR-2-120-C1-23					
	KFR-1-120-C1-11					
	KFR-1-120-C1-16	1	1.5	4	2.7	
	KFR-1-120-C1-23					
	KFR-05-120-C1-11					
	KFR-05-120-C1-16	0.5	1.4	3.3	2.7	
	KFR-05-120-C1-23					
	KFR-02-120-C1-11					
	KFR-02-120-C1-16	0.2	1	2.5	2.2	
	KFR-02-120-C1-23					
	KFR-02N-120-C1-11 N10C2					With polyester-coated
	KFR-02N-120-C1-16 N10C2	0.2	0.9	1.6	1.2	copper wires, 0.1 mm diameter by 10 cm
igure is KFR-5-120-C1-11	KFR-02N-120-C1-23 N10C2					long each

Triaxial 0°/90°/45°

Resistance: 120 Ω Gage factor: Approx. 2.1 These KFR series gages are also available with the gage resistance of 350Ω . The size is slightly different from 120Ω gages.



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

General-purpose Foil Strain Gages KFR

	Pattern Gage Resistance, 0	•	Models	Dime Grid Length Wid	nsions (r	Base	Remarks		
R	Uniaxial 5-element, for concentrated stress measurement Resistance: 120 Ω Gage factor: Approx. 1.95								
	Pitch 0.5	Pitch 0.5	Note: When measuring with dynamic strain instruments and signal conditioners, this results in 1 measurement for each element. Measurement using 2 elements or more at the same time is not possible. Note: Since the gage resistance is $120\pm15\Omega$ (deviation among 5-element is 5Ω), each element requires an external resistor with the same resistance when connected to the measuring instrument.						
	D9	D19	KFR-015-120-D9-11 N10C2 KFR-015-120-D9-16 N10C2 KFR-015-120-D9-23 N10C2	0.15 0.3	4 6	3	P (Pitch) 0.5 mm A min. qty 5 PC.		
	*Figure is KFR-015-120-D9-11 N′ *Figure is KFR-015-120-D19-11 N		KFR-015-120-D19-11 N10C2 KFR-015-120-D19-16 N10C2 KFR-015-120-D19-23 N10C2	0.15 0.4	5 6	3	P (Pitch) 0.5 mm A min. qty 5 PC.		