



## Gages for Composite Materials/Plastics

# KFP

- Gage Factor Approx. 2.1
- Applicable Linear Expansion Coefficient 65
- Self-temperature-compensation Range 10 to 80°C

### Applicable Adhesives and Operating Temperature Ranges

CC-33A: -196 to 80°C  
 CC-35: -30 to 80°C  
 EP-34B: -20 to 80°C

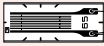
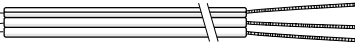

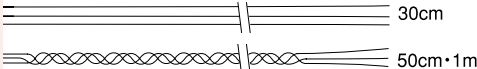


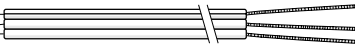

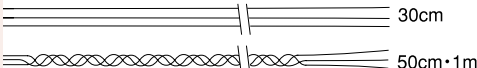
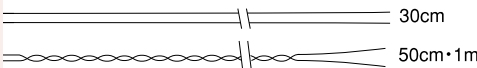
### ■ Foil Strain Gages for Plastics

The KFP gages of which the applicable linear expansion coefficient is  $65 \times 10^{-6}/^{\circ}\text{C}$  are suitable for strain measurement of plastics materials such as acrylic resin.

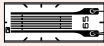
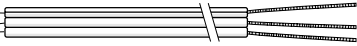

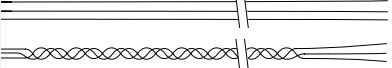
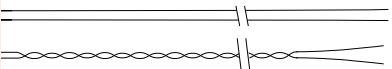
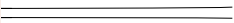



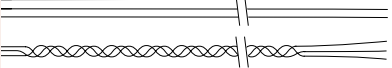
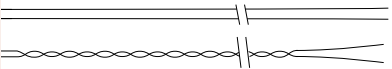
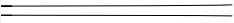
### ■ Types, lengths and codes of leadwire cables pre-attached to KFP gages

Type	2 polyester-coated copper wires	3 polyester-coated copper wires	Vinyl-coated flat 2-wire cable	Vinyl-coated flat 3-wire cable
Length	C1			
2 cm	N2C2	N2C3		
3	N3C2	N3C3		
4	N4C2	N4C3		
5	N5C2	N5C3		
10	N10C2	N10C3		
15	N15C2	N15C3	L15C2R	L15C3R
30	N30C2	N30C3	L30C2R	L30C3R
50	N50C2	N50C3	L50C2R	L50C3R
1 m	N1M2	N1M3	L1M2R	L1M3R
2			L2M2R	L2M3R
3			L3M2R	L3M3R
4			L4M2R	L4M3R
5			L5M2R	L5M3R
6			L6M2R	L6M3R
8			L8M2R	L8M3R
10			L10M2R	L10M3R
15			L15M2R	L15M3R
20			L20M2R	L20M3R
30 m			L30M2R	L30M3R
Oprg. temp. range	-196 to 80°C		-10 to 80°C	
Remarks	Twisted for 50cm and 1m long		L-6; L-9 for 6m or longer	L-7; L-10 for 6m or longer

# KFP Gages ● Uniaxial 120Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFP-5-120-C1-65</b>    <b>Uniaxial</b> ● Base Size 13 x 5.2 mm ● Gage Length 5 mm ● Gage Resistance 120Ω ● Pieces per Pack 10	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFP-5-120-C1-65 L1M3R	
			3m	KFP-5-120-C1-65 L3M3R	
			5m	KFP-5-120-C1-65 L5M3R	
	Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFP-5-120-C1-65 L1M2R	
			3m	KFP-5-120-C1-65 L3M2R	
			5m	KFP-5-120-C1-65 L5M2R	
	3 polyester-coated copper wires	-196 to 80°C	30cm	KFP-5-120-C1-65 N30C3	
			50cm	KFP-5-120-C1-65 N50C3	
			1m	KFP-5-120-C1-65 N1M3	
	2 polyester-coated copper wires	-196 to 80°C	30cm	KFP-5-120-C1-65 N30C2	
			50cm	KFP-5-120-C1-65 N50C2	
			1m	KFP-5-120-C1-65 N1M2	
	Silver-clad copper wires	-196 to 80°C	25mm	KFP-5-120-C1-65	
	<b>KFP-2-120-C1-65</b>    <b>Uniaxial</b> ● Base Size 10 x 4.7 mm ● Gage Length 2 mm ● Gage Resistance 120Ω ● Pieces per Pack 10	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFP-2-120-C1-65 L1M3R
				3m	KFP-2-120-C1-65 L3M3R
		5m		KFP-2-120-C1-65 L5M3R	
Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)		-10 to 80°C	1m	KFP-2-120-C1-65 L1M2R	
			3m	KFP-2-120-C1-65 L3M2R	
			5m	KFP-2-120-C1-65 L5M2R	
3 polyester-coated copper wires		-196 to 80°C	30cm	KFP-2-120-C1-65 N30C3	
			50cm	KFP-2-120-C1-65 N50C3	
			1m	KFP-2-120-C1-65 N1M3	
2 polyester-coated copper wires		-196 to 80°C	30cm	KFP-2-120-C1-65 N30C2	
			50cm	KFP-2-120-C1-65 N50C2	
			1m	KFP-2-120-C1-65 N1M2	
Silver-clad copper wires		-196 to 80°C	25mm	KFP-2-120-C1-65	

# KFP Gages ● Uniaxial 350Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model		
<b>KFP-5-350-C1-65</b>    <b>Uniaxial</b> ● Base Size 13 x 5.2 mm ● Gage Length 5 mm ● Gage Resistance 350Ω ● Pieces per Pack 10	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFP-5-350-C1-65 L1M3R		
			3m	KFP-5-350-C1-65 L3M3R		
			5m	KFP-5-350-C1-65 L5M3R		
		Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFP-5-350-C1-65 L1M2R	
		3m		KFP-5-350-C1-65 L3M2R		
		5m		KFP-5-350-C1-65 L5M2R		
	3 polyester-coated copper wires  	30cm	-196 to 80°C	30cm	KFP-5-350-C1-65 N30C3	
		50cm • 1m		50cm	KFP-5-350-C1-65 N50C3	
				1m	KFP-5-350-C1-65 N1M3	
	2 polyester-coated copper wires  	30cm	-196 to 80°C	30cm	KFP-5-350-C1-65 N30C2	
		50cm • 1m		50cm	KFP-5-350-C1-65 N50C2	
				1m	KFP-5-350-C1-65 N1M2	
Silver-clad copper wires  		-196 to 80°C	25mm	KFP-5-350-C1-65		
	<b>KFP-2-350-C1-65</b>    <b>Uniaxial</b> ● Base Size 10 x 5.2 mm ● Gage Length 2 mm ● Gage Resistance 350Ω ● Pieces per Pack 10		Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFP-2-350-C1-65 L1M3R
					3m	KFP-2-350-C1-65 L3M3R
5m		KFP-2-350-C1-65 L5M3R				
Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)		-10 to 80°C		1m	KFP-2-350-C1-65 L1M2R	
			3m	KFP-2-350-C1-65 L3M2R		
			5m	KFP-2-350-C1-65 L5M2R		
3 polyester-coated copper wires  		30cm	-196 to 80°C	30cm	KFP-2-350-C1-65 N30C3	
		50cm • 1m		50cm	KFP-2-350-C1-65 N50C3	
				1m	KFP-2-350-C1-65 N1M3	
2 polyester-coated copper wires  		30cm	-196 to 80°C	30cm	KFP-2-350-C1-65 N30C2	
		50cm • 1m		50cm	KFP-2-350-C1-65 N50C2	
				1m	KFP-2-350-C1-65 N1M2	
Silver-clad copper wires  		-196 to 80°C	25mm	KFP-2-350-C1-65		