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Gages for Composite Materials/Plastics

KFP

Gage Factor

Approx. 2.1

 Applicable Linear Expansion Coefficient

65

 Self-temperaturecompensation 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 x10 $^{-6}$ / $^{\circ}$ 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

Туре	2 polyester-coated copper wires	3 polyester-coated copper wires	Vinyl-coated flat 2-wire cable	Vinyl-coated flat 3-wire cable				
l\ l	C1							
Length								
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	o 80°C	-10 to 80°C					
Remarks	Twisted for 50c	m 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
	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)		1m	KFP-5-120-C1-65 L1M3
		–10 to 80°C	3m	KFP-5-120-C1-65 L3M3
KFP-5-120-C1-65	The second secon		5m	KFP-5-120-C1-65 L5M3
	Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)		1m	KFP-5-120-C1-65 L1M2
		–10 to 80°C	3m	KFP-5-120-C1-65 L3M2
			5m	KFP-5-120-C1-65 L5M2
	3 polyester-coated copper wires		30cm	KFP-5-120-C1-65 N30C
	30cm	–196 to 80°C	50cm	KFP-5-120-C1-65 N50C
	50cm·1m		1m	KFP-5-120-C1-65 N1M3
	2 polyester-coated copper wires		30cm	KFP-5-120-C1-65 N30C
		–196 to 80°C	50cm	KFP-5-120-C1-65 N50C
Uniaxial	50cm·1m		1m	KFP-5-120-C1-65 N1M2
 Base Size Gage Length Gage Resistance Pieces per Pack 13 x 5.2 mm 5 mm 120Ω 10 	Silver-clad copper wires	-196 to 80°C	25mm	KFP-5-120-C1-65
	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)		1m	KFP-2-120-C1-65 L1M3
	Annual control of the	−10 to 80°C	3m	KFP-2-120-C1-65 L3M3
KFP-2-120-C1-65			5m	KFP-2-120-C1-65 L5M3
	Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)		1m	KFP-2-120-C1-65 L1M2
		–10 to 80°C	3m	KFP-2-120-C1-65 L3M2
			5m	KFP-2-120-C1-65 L5M2
	3 polyester-coated copper wires		30cm	KFP-2-120-C1-65 N30C
	30cm	–196 to 80°C	50cm	KFP-2-120-C1-65 N50C
	50cm·1m		1m	KFP-2-120-C1-65 N1M3
	2 polyester-coated copper wires		30cm	KFP-2-120-C1-65 N30C
		–196 to 80°C	50cm	KFP-2-120-C1-65 N50C
Uniaxial	50cm·1m		1m	KFP-2-120-C1-65 N1M2
Street 10 x 4.7 mm Street 10 x 4.7 mm Gage Length 2 mm Gage Resistance 120Ω Pieces per Pack 10	Silver-clad copper wires	-196 to 80°C	25mm	KFP-2-120-C1-65

KFP Gages •Uniaxial 350Ω

KFP-5-350-C1-0	=	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer) Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer) 3 polyester-coated copper wires 30cm 50cm-1m	-10 to 80°C	1m 3m 5m 1m 3m 5m 3m 3m	KFP-5-350-C1-65 L1M3 KFP-5-350-C1-65 L5M3 KFP-5-350-C1-65 L5M3 KFP-5-350-C1-65 L1M2 KFP-5-350-C1-65 L3M2
KFP-5-350-C1-	65	3 polyester-coated copper wires 30cm	-10 to 80°C	5m 1m 3m 5m	KFP-5-350-C1-65 L5M3 KFP-5-350-C1-65 L1M2 KFP-5-350-C1-65 L3M2 KFP-5-350-C1-65 L5M2
KFP-5-350-C1-	=	3 polyester-coated copper wires 30cm	to 80°C	1m 3m 5m	KFP-5-350-C1-65 L1M2 KFP-5-350-C1-65 L3M2 KFP-5-350-C1-65 L5M2
		3 polyester-coated copper wires 30cm	to 80°C	3m 5m	KFP-5-350-C1-65 L3M2 KFP-5-350-C1-65 L5M2
	=======================================	30cm	to 80°C	5m	KFP-5-350-C1-65 L5M2
	=======================================	30cm			
	=======================================	30cm		30cm	
		1			KFP-5-350-C1-65 N30C
	_	50cm • 1 m		50cm	KFP-5-350-C1-65 N50C
				1m	KFP-5-350-C1-65 N1M3
		2 polyester-coated copper wires		30cm	KFP-5-350-C1-65 N30C
	=		–196 to 80°C	50cm	KFP-5-350-C1-65 N50C
Uniaxial	⇒	50cm·1m		1m	KFP-5-350-C1-65 N1M2
● Base Size 13 x 5.3 ● Gage Length 5 m ● Gage Resistance 350 ● Pieces per Pack 10	nm OΩ =	Silver-clad copper wires	-196 to 80°C	25mm	KFP-5-350-C1-65
		Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)		1m	KFP-2-350-C1-65 L1M3
			−10 to 80°C	3m	KFP-2-350-C1-65 L3M3
KFP-2-350-C1-65		,, — _		5m	KFP-2-350-C1-65 L5M3
		Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)		1m	KFP-2-350-C1-65 L1M2
			−10 to 80°C	3m	KFP-2-350-C1-65 L3M2
				5m	KFP-2-350-C1-65 L5M2
		3 polyester-coated copper wires		30cm	KFP-2-350-C1-65 N30C
		30cm	–196 to 80°C	50cm	KFP-2-350-C1-65 N50C
		50cm·1m		1m	KFP-2-350-C1-65 N1M3
		2 polyester-coated copper wires		30cm	KFP-2-350-C1-65 N30C
	=		-196 to 80°C	50cm	KFP-2-350-C1-65 N50C
Uniaxial	a	50cm·1m		1m	KFP-2-350-C1-65 N1M2
● Base Size 10 x 5.5 ● Gage Length 2 m ● Gage Resistance 350 ● Pieces per Pack 10	nm OΩ ==	Silver-clad copper wires	-196 to 80°C	25mm	KFP-2-350-C1-65