

# High-temperature Gages

# KFH

- Gage Factor Approx. 1.9 (250°C)
- Applicable Linear Expansion Coefficients 11, 16, 23
- Self-temperature-compensation Range 10 to 250°C

### Applicable Adhesives and Operating Temperature Range

- PC-6: -196 to 250°C
- EP-34B: -55 to 200°C
- PI-32: -196 to 250°C

## ■ High-temperature Foil Strain Gages

The base is made of highly heat-resistant polyimide and the gage element is made of NiCr alloy foil, thereby ensuring less thermal output and excellent temperature characteristics.





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

Type	High/low-temp. 3-wire cable	Glass-coated cable of 3 Ni-clad copper wires	Fluoroplastic-coated high/low-temp. 3-wire cable
Length	C1, D25		
15 cm	H15C3	B15C3	F15C3
30	H30C3	B30C3	F30C3
50	H50C3	B50C3	F50C3
1 m	H1M3	B1M3	F1M3
2	H2M3	B2M3	F2M3
3	H3M3	B3M3	F3M3
4	H4M3	B4M3	F4M3
5	H5M3	B5M3	F5M3
6	H6M3	B6M3	F6M3
8	H8M3	B8M3	F8M3
10	H10M3	B10M3	F10M3
15	H15M3	B15M3	F15M3
20	H20M3	B20M3	F20M3
30 m	H30M3	B30M3	F30M3
Oprg. temp. range	-196 to 250°C	Normal temp. to 250°C	-196 to 250°C
Remarks	L-17		L-3









# KFH Gages ● Uniaxial 120Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFH-5-120-C1-11</b> 16 23	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-5-120-C1-11 H1M3	
			3m	KFH-5-120-C1-11 H3M3	
			5m	KFH-5-120-C1-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-5-120-C1-11 B1M3
		3m		KFH-5-120-C1-11 B3M3	
		5m		KFH-5-120-C1-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-5-120-C1-11 F1M3
		3m		KFH-5-120-C1-11 F3M3	
		5m		KFH-5-120-C1-11 F5M3	
	<b>Uniaxial</b> ● Base Size 10 x 3.7 mm ● Gage Length 5 mm ● Gage Resistance 120Ω ● Pieces per Pack 10	Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-5-120-C1-11
<b>KFH-2-120-C1-11</b> 16 23	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-2-120-C1-11 H1M3	
			3m	KFH-2-120-C1-11 H3M3	
			5m	KFH-2-120-C1-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-2-120-C1-11 B1M3
		3m		KFH-2-120-C1-11 B3M3	
		5m		KFH-2-120-C1-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-2-120-C1-11 F1M3
		3m		KFH-2-120-C1-11 F3M3	
		5m		KFH-2-120-C1-11 F5M3	
	<b>Uniaxial</b> ● Base Size 6 x 3.7mm ● Gage Length 2 mm ● Gage Resistance 120Ω ● Pieces per Pack 10	Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-2-120-C1-11



# KFH Gages ● Uniaxial 120Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFH-1-120-C1-11</b> 16 23  <b>Uniaxial</b> ● Base Size 4 x 2.7 mm ● Gage Length 1 mm ● Gage Resistance 120Ω ● Pieces per Pack 10	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-1-120-C1-11 H1M3	
			3m	KFH-1-120-C1-11 H3M3	
			5m	KFH-1-120-C1-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-1-120-C1-11 B1M3
		3m		KFH-1-120-C1-11 B3M3	
		5m		KFH-1-120-C1-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-1-120-C1-11 F1M3
		3m		KFH-1-120-C1-11 F3M3	
		5m		KFH-1-120-C1-11 F5M3	
		Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-1-120-C1-11
	<b>KFH-05-120-C1-11</b> 16 23  <b>Uniaxial</b> ● Base Size 3.3 x 2.7 mm ● Gage Length 0.5 mm ● Gage Resistance 120Ω ● Pieces per Pack 10	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-05-120-C1-11 H1M3
				3m	KFH-05-120-C1-11 H3M3
		5m		KFH-05-120-C1-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-05-120-C1-11 B1M3
		3m		KFH-05-120-C1-11 B3M3	
		5m		KFH-05-120-C1-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-05-120-C1-11 F1M3
		3m		KFH-05-120-C1-11 F3M3	
		5m		KFH-05-120-C1-11 F5M3	
		Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-05-120-C1-11






# KFH Gages ● Uniaxial 120Ω/Triaxial 120Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFH-02-120-C1-11</b> 16 23	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-02-120-C1-11 H1M3	
			3m	KFH-02-120-C1-11 H3M3	
			5m	KFH-02-120-C1-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-02-120-C1-11 B1M3
		3m		KFH-02-120-C1-11 B3M3	
		5m		KFH-02-120-C1-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-02-120-C1-11 F1M3
		3m		KFH-02-120-C1-11 F3M3	
		5m		KFH-02-120-C1-11 F5M3	
	<b>Uniaxial</b> ● Base Size 2.5 x 2.2 mm ● Gage Length 0.2 mm ● Gage Resistance 120Ω ● Pieces per Pack 10	Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-02-120-C1-11
	<b>KFH-1-120-D25-11</b> 16 23	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-1-120-D25-11 H1M3
				3m	KFH-1-120-D25-11 H3M3
		5m		KFH-1-120-D25-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-1-120-D25-11 B1M3
		3m		KFH-1-120-D25-11 B3M3	
		5m		KFH-1-120-D25-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-1-120-D25-11 F1M3
		3m		KFH-1-120-D25-11 F3M3	
		5m		KFH-1-120-D25-11 F5M3	
<b>Triaxial, 0°/90°/45°</b> ● Base Size 8 mm φ ● Gage Length 1 mm ● Gage Resistance 120Ω ● Pieces per Pack 5		Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH1-120-D25-11









# KFH Gages ● Triaxial 120Ω/Uniaxial 350Ω

Pattern	Leadwire Cable - Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFH-05-120-D25-11</b> 16 23  <b>Triaxial, 0°/90°/45°</b> ● Base Size 7.5 mmφ ● Gage Length 0.5 mm ● Gage Resistance 120Ω ● Pieces per Pack 5	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-05-120-D25-11 H1M3	
			3m	KFH-05-120-D25-11 H3M3	
			5m	KFH-05-120-D25-11 H5M3	
	Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-05-120-D25-11 B1M3	
			3m	KFH-05-120-D25-11 B3M3	
			5m	KFH-05-120-D25-11 B5M3	
	Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-05-120-D25-11 F1M3	
			3m	KFH-05-120-D25-11 F3M3	
			5m	KFH-05-120-D25-11 F5M3	
	Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-05-120-D25-11	
	<b>KFH-5-350-C1-11</b> 16 23  <b>Uniaxial</b> ● Base Size 10 x 3.7 mm ● Gage Length 5 mm ● Gage Resistance 350Ω ● Pieces per Pack 10	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-5-350-C1-11 H1M3
				3m	KFH-5-350-C1-11 H3M3
		5m		KFH-5-350-C1-11 H5M3	
Glass-coated cable of 3 Ni-clad copper wires 		Normal temp. to 250°C	1m	KFH-5-350-C1-11 B1M3	
			3m	KFH-5-350-C1-11 B3M3	
			5m	KFH-5-350-C1-11 B5M3	
Fluoroplastic-coated high/low-temp. 3-wire cable L-3 		-196 to 250°C	1m	KFH-5-350-C1-11 F1M3	
			3m	KFH-5-350-C1-11 F3M3	
			5m	KFH-5-350-C1-11 F5M3	
Polyimide-coated copper wires 		-196 to 250°C	19mm	KFH-5-350-C1-11	









# KFH Gages ● Uniaxial 350Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFH-2-350-C1-11</b> 16 23  <b>Uniaxial</b> ● Base Size 6 x 3.7 mm ● Gage Length 2 mm ● Gage Resistance 350Ω ● Pieces per Pack 10	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-2-350-C1-11 H1M3	
			3m	KFH-2-350-C1-11 H3M3	
			5m	KFH-2-350-C1-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-2-350-C1-11 B1M3
		3m		KFH-2-350-C1-11 B3M3	
		5m		KFH-2-350-C1-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-2-350-C1-11 F1M3
		3m		KFH-2-350-C1-11 F3M3	
		5m		KFH-2-350-C1-11 F5M3	
		Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-2-350-C1-11
	<b>KFH-1-350-C1-11</b> 16 23  <b>Uniaxial</b> ● Base Size 4 x 2.7 mm ● Gage Length 1 mm ● Gage Resistance 350Ω ● Pieces per Pack 10	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-1-350-C1-11 H1M3
				3m	KFH-1-350-C1-11 H3M3
		5m		KFH-1-350-C1-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-1-350-C1-11 B1M3
		3m		KFH-1-350-C1-11 B3M3	
		5m		KFH-1-350-C1-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-1-350-C1-11 F1M3
		3m		KFH-1-350-C1-11 F3M3	
		5m		KFH-1-350-C1-11 F5M3	
		Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-1-350-C1-11

# KFH Gages ● Uniaxial 350Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFH-05-350-C1-11</b> 16 23	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-05-350-C1-11 H1M3	
			3m	KFH-05-350-C1-11 H3M3	
			5m	KFH-05-350-C1-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-05-350-C1-11 B1M3
		3m		KFH-05-350-C1-11 B3M3	
		5m		KFH-05-350-C1-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-05-350-C1-11 F1M3
		3m		KFH-05-350-C1-11 F3M3	
		5m		KFH-05-350-C1-11 F5M3	
	<b>Uniaxial</b> ● Base Size 3.5 x 3.7 mm ● Gage Length 0.5 mm ● Gage Resistance 350Ω ● Pieces per Pack 10	Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-05-350-C1-11
<b>KFH-02-350-C1-11</b> 16 23	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-02-350-C1-11 H1M3	
			3m	KFH-02-350-C1-11 H3M3	
			5m	KFH-02-350-C1-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-02-350-C1-11 B1M3
		3m		KFH-02-350-C1-11 B3M3	
		5m		KFH-02-350-C1-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-02-350-C1-11 F1M3
		3m		KFH-02-350-C1-11 F3M3	
		5m		KFH-02-350-C1-11 F5M3	
	<b>Uniaxial</b> ● Base Size 3.0 x 2.7 mm ● Gage Length 0.2 mm ● Gage Resistance 350Ω ● Pieces per Pack 10	Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-02-350-C1-11

# KFH Gages ● Triaxial 350Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFH-1-350-D25-11</b> 16 23  <b>Triaxial, 0°/90°/45°</b> ● Base Size 8 mm φ ● Gage Length 1 mm ● Gage Resistance 350Ω ● Pieces per Pack 5	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-1-350-D25-11 H1M3	
			3m	KFH-1-350-D25-11 H3M3	
			5m	KFH-1-350-D25-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-1-350-D25-11 B1M3
		3m		KFH-1-350-D25-11 B3M3	
		5m		KFH-1-350-D25-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-1-350-D25-11 F1M3
		3m		KFH-1-350-D25-11 F3M3	
		5m		KFH-1-350-D25-11 F5M3	
		Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-1-350-D25-11
	<b>KFH-05-350-D25-11</b> 16 23  <b>Triaxial, 0°/90°/45°</b> ● Base Size 7.5 mm φ ● Gage Length 0.5 mm ● Gage Resistance 350Ω ● Pieces per Pack 5	High/low-temperature 3-wire cable L-17 	-196 to 250°C	1m	KFH-05-350-D25-11 H1M3
				3m	KFH-05-350-D25-11 H3M3
		5m		KFH-05-350-D25-11 H5M3	
		Glass-coated cable of 3 Ni-clad copper wires 	Normal temp. to 250°C	1m	KFH-05-350-D25-11 B1M3
		3m		KFH-05-350-D25-11 B3M3	
		5m		KFH-05-350-D25-11 B5M3	
		Fluoroplastic-coated high/low-temp. 3-wire cable L-3 	-196 to 250°C	1m	KFH-05-350-D25-11 F1M3
		3m		KFH-05-350-D25-11 F3M3	
		5m		KFH-05-350-D25-11 F5M3	
		Polyimide-coated copper wires 	-196 to 250°C	19mm	KFH-05-350-D25-11