

# Gages for General Stress Measurement

# KFR

- Applicable Linear Expansion Coefficients 11, 16, 23
- Self-temperature-compensation Range 0 to 150°C

### Applicable Adhesives and Operating Temperature Ranges

- CC-33A: -196 to 120°C
- CC-35: -30 to 120°C
- EP-34B: -55 to 150°C
- PC-6: -196 to 150°C

## ■ Foil Strain Gages

The KFR 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.






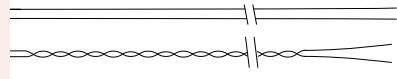





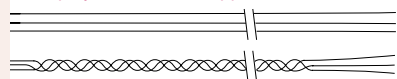
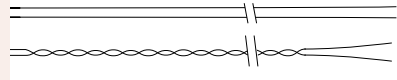

- Highly heat-resistant polyimide resin is used to make them durable.
- A wide compensated temperature range of 0 to 150°C makes them usable under diversified operating conditions.
- The resistive element is made of NiCr alloy foil, thereby ensuring minimal drift under high temperatures and excellent weather and moisture resistances.
- Suitable for incorporation into transducers.

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

Type Length	2 polyester-coated copper wires		3 polyester-coated copper wires*		Vinyl-coated flat 2-wire cable		Vinyl-coated flat 3-wire cable		Middle-temperature 2-wire cable	Middle-temperature 3-wire cable
	C1,D25		C1		D25		C1		D25	
2 cm	N2C2	N2C3								
3	N3C2	N3C3								
4	N4C2	N4C3								
5	N5C2	N5C3								
10	N10C2	N10C3								
15	N15C2	N15C3	L15C2R	L15C2S	L15C3R	L15C3S	R15C2	R15C3		
30	N30C2	N30C3	L30C2R	L30C2S	L30C3R	L30C3S	R30C2	R30C3		
50	N50C2	N50C3	L50C2R	L50C2S	L50C3R	L50C3S	R50C2	R50C3		
1 m	N1M2	N1M3	L1M2R	L1M2S	L1M3R	L1M3S	R1M2	R1M3		
2			L2M2R	L2M2S	L2M3R	L2M3S	R2M2	R2M3		
3			L3M2R	L3M2S	L3M3R	L3M3S	R3M2	R3M3		
4			L4M2R	L4M2S	L4M3R	L4M3S	R4M2	R4M3		
5			L5M2R	L5M2S	L5M3R	L5M3S	R5M2	R5M3		
6			L6M2R	L6M2S	L6M3R	L6M3S	R6M2	R6M3		
8			L8M2R	L8M2S	L8M3R	L8M3S	R8M2	R8M3		
10			L10M2R	L10M2S	L10M3R	L10M3S	R10M2	R10M3		
15			L15M2R	L15M2S	L15M3R	L15M3S	R15M2	R15M3		
20			L20M2R	L20M2S	L20M3R	L20M3S	R20M2	R20M3		
30 m			L30M2R	L30M2S	L30M3R	L30M3S	R30M2	R30M3		
Oprg. temp. range	-196 to 150°C				-10 to 80°C				-100 to 150°C	
Remarks	Twisted for 50cm and 1m long		L-6; L-9 for 6m or longer		L-7; L-10 for 6m or longer		L-11	L-12		

\*3-wire system is available only for gage lengths of 2 mm and 5 mm.

# KFR Gages ● Uniaxial 120Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFR-5-120-C1-11</b> 16 23	 Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFR-5-120-C1-11 L1M3R	
			3m	KFR-5-120-C1-11 L3M3R	
			5m	KFR-5-120-C1-11 L5M3R	
		 Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-5-120-C1-11 L1M2R
		3m		KFR-5-120-C1-11 L3M2R	
		5m		KFR-5-120-C1-11 L5M2R	
		 Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-5-120-C1-11 R1M3
		3m		KFR-5-120-C1-11 R3M3	
		5m		KFR-5-120-C1-11 R5M3	
		 Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-5-120-C1-11 R1M2
		3m		KFR-5-120-C1-11 R3M2	
		5m		KFR-5-120-C1-11 R5M2	
		 3 polyester-coated copper wires	-196 to 150°C	30cm	KFR-5-120-C1-11 N30C3
		50cm		KFR-5-120-C1-11 N50C3	
		50cm·1m		1m	KFR-5-120-C1-11 N1M3
	 2 polyester-coated copper wires	-196 to 150°C	30cm	KFR-5-120-C1-11 N30C2	
	50cm		KFR-5-120-C1-11 N50C2		
	50cm·1m		1m	KFR-5-120-C1-11 N1M2	
	 Silver-clad copper wires	-196 to 150°C	25mm	KFR-5-120-C1-11	
<b>KFR-2-120-C1-11</b> 16 23	 Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFR-2-120-C1-11 L1M3R	
			3m	KFR-2-120-C1-11 L3M3R	
			5m	KFR-2-120-C1-11 L5M3R	
		 Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-2-120-C1-11 L1M2R
		3m		KFR-2-120-C1-11 L3M2R	
		5m		KFR-2-120-C1-11 L5M2R	
		 Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-2-120-C1-11 R1M3
		3m		KFR-2-120-C1-11 R3M3	
		5m		KFR-2-120-C1-11 R5M3	
		 Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-2-120-C1-11 R1M2
		3m		KFR-2-120-C1-11 R3M2	
		5m		KFR-2-120-C1-11 R5M2	
		 3 polyester-coated copper wires	-196 to 150°C	30cm	KFR-2-120-C1-11 N30C3
		50cm		KFR-2-120-C1-11 N50C3	
		50cm·1m		1m	KFR-2-120-C1-11 N1M3
	 2 polyester-coated copper wires	-196 to 150°C	30cm	KFR-2-120-C1-11 N30C2	
	50cm		KFR-2-120-C1-11 N50C2		
	50cm·1m		1m	KFR-2-120-C1-11 N1M2	
	 Silver-clad copper wires	-196 to 150°C	25mm	KFR-2-120-C1-11	





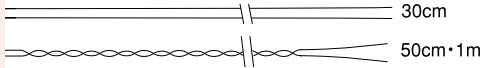
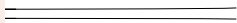




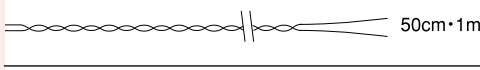

**Uniaxial**

- Gage Factor      Approx. 2.1
- Base Size        10 x 3.7 mm
- Gage Length    5 mm
- Gage Resistance 120Ω
- Pieces per Pack 10





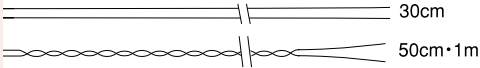





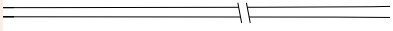
**Uniaxial**

- Gage Factor      Approx. 2.1
- Base Size        6 x 3.7 mm
- Gage Length    2 mm
- Gage Resistance 120Ω
- Pieces per Pack 10





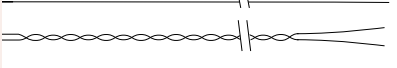
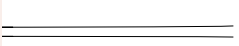
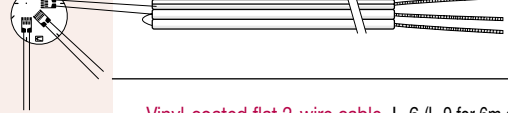



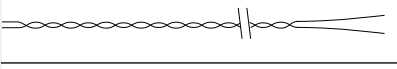

# KFR Gages ● Uniaxial 120Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFR-1-120-C1-11</b> 16 23	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFR-1-120-C1-11 L1M3R	
			3m	KFR-1-120-C1-11 L3M3R	
			5m	KFR-1-120-C1-11 L5M3R	
	Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-1-120-C1-11 L1M2R	
			3m	KFR-1-120-C1-11 L3M2R	
			5m	KFR-1-120-C1-11 L5M2R	
	Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-1-120-C1-11 R1M3	
			3m	KFR-1-120-C1-11 R3M3	
			5m	KFR-1-120-C1-11 R5M3	
	Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-1-120-C1-11 R1M2	
			3m	KFR-1-120-C1-11 R3M2	
			5m	KFR-1-120-C1-11 R5M2	
	<b>Uniaxial</b> ● Gage Factor      Approx. 2.1 ● Base Size         4 x 2.7 mm ● Gage Length      1 mm ● Gage Resistance   120Ω ● Pieces per Pack   10	2 polyester-coated copper wires	-196 to 150°C	30cm	KFR-1-120-C1-11 N30C2
				50cm	KFR-1-120-C1-11 N50C2
				1m	KFR-1-120-C1-11 N1M2
	Silver-clad copper wires	-196 to 150°C	25mm	KFR-1-120-C1-11	
					
<b>KFR-05-120-C1-11</b> 16 23	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFR-05-120-C1-11 L1M3R	
			3m	KFR-05-120-C1-11 L3M3R	
			5m	KFR-05-120-C1-11 L5M3R	
	Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-05-120-C1-11 L1M2R	
			3m	KFR-05-120-C1-11 L3M2R	
			5m	KFR-05-120-C1-11 L5M2R	
	Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-05-120-C1-11 R1M3	
			3m	KFR-05-120-C1-11 R3M3	
			5m	KFR-05-120-C1-11 R5M3	
	Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-05-120-C1-11 R1M2	
			3m	KFR-05-120-C1-11 R3M2	
			5m	KFR-05-120-C1-11 R5M2	
	<b>Uniaxial</b> ● Gage Factor      Approx. 2.1 ● Base Size         3.3 x 2.7 mm ● Gage Length      0.5 mm ● Gage Resistance   120Ω ● Pieces per Pack   10	2 polyester-coated copper wires	-196 to 150°C	30cm	KFR-05-120-C1-11 N30C2
				50cm	KFR-05-120-C1-11 N50C2
				1m	KFR-05-120-C1-11 N1M2
	Silver-clad copper wires	-196 to 150°C	25mm	KFR-05-120-C1-11	
					

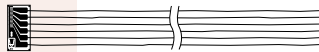
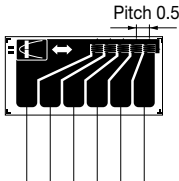
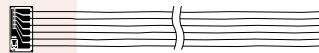
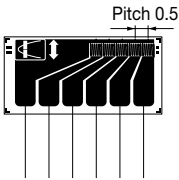




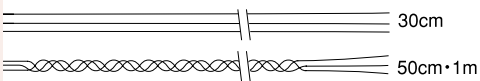
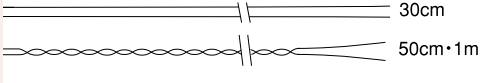

# KFR Gages ● Uniaxial 120Ω

Pattern	Leadwire Cable - Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFR-02-120-C1-11</b> 16 23	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFR-02-120-C1-11 L1M3R	
			3m	KFR-02-120-C1-11 L3M3R	
			5m	KFR-02-120-C1-11 L5M3R	
	Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-02-120-C1-11 L1M2R	
			3m	KFR-02-120-C1-11 L3M2R	
			5m	KFR-02-120-C1-11 L5M2R	
	Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-02-120-C1-11 R1M3	
			3m	KFR-02-120-C1-11 R3M3	
			5m	KFR-02-120-C1-11 R5M3	
	Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-02-120-C1-11 R1M2	
			3m	KFR-02-120-C1-11 R3M2	
			5m	KFR-02-120-C1-11 R5M2	
	<b>Uniaxial</b> ● Gage Factor      Approx. 2.1 ● Base Size        2.5 x 2.2 mm ● Gage Length     0.2 mm ● Gage Resistance   120Ω ● Pieces per Pack   10	2 polyester-coated copper wires	-196 to 150°C	5cm	KFR-02-120-C1-11 N30C2
				15cm	KFR-02-120-C1-11 N50C2
				30cm	KFR-02-120-C1-11 N1M2
	Silver-clad copper wires	-196 to 150°C	25mm	KFR-02-120-C1-11	
					
<b>KFR-02N-120-C1-11</b> 16 23	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFR-02N-120-C1-11 L1M3R	
			3m	KFR-02N-120-C1-11 L3M3R	
			5m	KFR-02N-120-C1-11 L5M3R	
	Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-02N-120-C1-11 L1M2R	
			3m	KFR-02N-120-C1-11 L3M2R	
			5m	KFR-02N-120-C1-11 L5M2R	
	Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-02N-120-C1-11 R1M3	
			3m	KFR-02N-120-C1-11 R3M3	
			5m	KFR-02N-120-C1-11 R5M3	
	Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-02N-120-C1-11 R1M2	
			3m	KFR-02N-120-C1-11 R3M2	
			5m	KFR-02N-120-C1-11 R5M2	
	<b>Uniaxial</b> ● Gage Factor      Approx. 1.9 ● Base Size        1.6 x 1.2 mm ● Gage Length     0.2 mm ● Gage Resistance   120Ω ● Pieces per Pack   10	2 polyester-coated copper wires	-196 to 150°C	10cm	KFR-02N-120-C1-11 N10C2
					




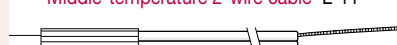
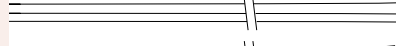
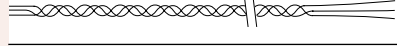






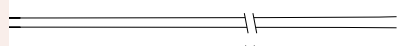

# KFR Gages ● Triaxial 120Ω

Pattern	Leadwire Cable - Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFR-1-120-D25-11</b> 16 23  <b>Triaxial, 0°/90°/45°</b> ● Gage Factor    Approx. 2.1 ● Base Size        8 mm φ ● Gage Length    1 mm ● Gage Resistance 120Ω ● Pieces per Pack 5	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer) 	-10 to 80°C	1m	KFR-1-120-D25-11 L1M3S	
			3m	KFR-1-120-D25-11 L3M3S	
			5m	KFR-1-120-D25-11 L5M3S	
		Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer) 	-10 to 80°C	1m	KFR-1-120-D25-11 L1M2S
		3m		KFR-1-120-D25-11 L3M2S	
		5m		KFR-1-120-D25-11 L5M2S	
		Middle-temperature 3-wire cable L-12 	-100 to 150°C	1m	KFR-1-120-D25-11 R1M3
		3m		KFR-1-120-D25-11 R3M3	
		5m		KFR-1-120-D25-11 R5M3	
		Middle-temperature 2-wire cable L-11 	-100 to 150°C	1m	KFR-1-120-D25-11 R1M2
		3m		KFR-1-120-D25-11 R3M2	
		5m		KFR-1-120-D25-11 R5M2	
		2 polyester-coated copper wires 	-196 to 150°C	30cm	KFR-1-120-D25-11 N30C2
		50cm		KFR-1-120-D25-11 N50C2	
		1m		KFR-1-120-D25-11 N1M2	
	Silver-clad copper wires 	-196 to 150°C	25mm	KFR-1-120-D25-11	
<b>KFR-05-120-D25-11</b> 16 23  <b>Triaxial, 0°/90°/45°</b> ● Gage Factor    Approx. 2.1 ● Base Size        7.5 mm φ ● Gage Length    0.5 mm ● Gage Resistance 120Ω ● Pieces per Pack 5	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer) 	-10 to 80°C	1m	KFR-05-120-D25-11 L1M3S	
			3m	KFR-05-120-D25-11 L3M3S	
			5m	KFR-05-120-D25-11 L5M3S	
		Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer) 	-10 to 80°C	1m	KFR-05-120-D25-11 L1M2S
		3m		KFR-05-120-D25-11 L3M2S	
		5m		KFR-05-120-D25-11 L5M2S	
		Middle-temperature 3-wire cable L-12 	-100 to 150°C	1m	KFR-05-120-D25-11 R1M3
		3m		KFR-05-120-D25-11 R3M3	
		5m		KFR-05-120-D25-11 R5M3	
		Middle-temperature 2-wire cable L-11 	-100 to 150°C	1m	KFR-05-120-D25-11 R1M2
		3m		KFR-05-120-D25-11 R3M2	
		5m		KFR-05-120-D25-11 R5M2	
		2 polyester-coated copper wires 	-196 to 150°C	30cm	KFR-05-120-D25-11 N30C2
		50cm		KFR-05-120-D25-11 N50C2	
		1m		KFR-05-120-D25-11 N1M2	
	Silver-clad copper wires 	-196 to 150°C	25mm	KFR-05-120-D25-11	

# KFR Gages ● Uniaxial 120Ω, 5-element for concentrated stress measurement/Uniaxial 350Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFR-015-120-D9-11</b> 16 Uniaxial, 5-element for concentrated stress measurement ● Gage Factor      Approx. 1.95 ● Base Size         6 x 3 mm ● Gage Length     0.15 mm ● Gage Resistance   120Ω ● Pieces per Pack   5	Polyester-coated copper wires 	-196 to 150°C	10cm	KFR-015-120-D9-11 N10C2	
					
<b>KFR-015-120-D19-11</b> 16 Uniaxial, 5-element for concentrated stress measurement ● Gage Factor      Approx. 1.95 ● Base Size         6 x 3 mm ● Gage Length     0.15 mm ● Gage Resistance   120Ω ● Pieces per Pack   5	Polyester-coated copper wires 	-196 to 150°C	10cm	KFR-015-120-D19-11 N10C2	
					
<b>KFR-5-350-C1-11</b> 16 23 Uniaxial ● Gage Factor      Approx. 2.1 ● Base Size         10 x 3.7 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	KFR-5-350-C1-11 L1M3R	
			3m	KFR-5-350-C1-11 L3M3R	
			5m	KFR-5-350-C1-11 L5M3R	
		Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer) 	-10 to 80°C	1m	KFR-5-350-C1-11 L1M2R
		3m		KFR-5-350-C1-11 L3M2R	
		5m		KFR-5-350-C1-11 L5M2R	
		Middle-temperature 3-wire cable L-12 	-100 to 150°C	1m	KFR-5-350-C1-11 R1M3
		3m		KFR-5-350-C1-11 R3M3	
		5m		KFR-5-350-C1-11 R5M3	
		Middle-temperature 2-wire cable L-11 	-100 to 150°C	1m	KFR-5-350-C1-11 R1M2
		3m		KFR-5-350-C1-11 R3M2	
		5m		KFR-5-350-C1-11 R5M2	
		3 polyester-coated copper wires 	-196 to 150°C	30cm	KFR-5-350-C1-11 N30C3
		50cm		KFR-5-350-C1-11 N50C3	
	50cm·1m	KFR-5-350-C1-11 N1M3			
	2 polyester-coated copper wires 	-196 to 150°C	30cm	KFR-5-350-C1-11 N30C2	
	50cm		KFR-5-350-C1-11 N50C2		
	1m		KFR-5-350-C1-11 N1M2		
	Silver-clad copper wires 	-196 to 150°C	25mm	KFR-5-350-C1-11	

# KFR Gages ● Uniaxial 350Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
<b>KFR-2-350-C1-11</b> 16 23	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer) 	-10 to 80°C	1m	KFR-2-350-C1-11 L1M3R	
			3m	KFR-2-350-C1-11 L3M3R	
			5m	KFR-2-350-C1-11 L5M3R	
		Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-2-350-C1-11 L1M2R
				3m	KFR-2-350-C1-11 L3M2R
				5m	KFR-2-350-C1-11 L5M2R
		Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-2-350-C1-11 R1M3
				3m	KFR-2-350-C1-11 R3M3
				5m	KFR-2-350-C1-11 R5M3
		Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-2-350-C1-11 R1M2
				3m	KFR-2-350-C1-11 R3M2
				5m	KFR-2-350-C1-11 R5M2
		3 polyester-coated copper wires	-196 to 150°C	30cm	KFR-2-350-C1-11 N30C3
		 30cm		50cm	KFR-2-350-C1-11 N50C3
	 50cm·1m	1m		KFR-2-350-C1-11 N1M3	
	2 polyester-coated copper wires	-196 to 150°C	30cm	KFR-2-350-C1-11 N30C2	
	 30cm		50cm	KFR-2-350-C1-11 N50C2	
	 50cm·1m		1m	KFR-2-350-C1-11 N1M2	
	Silver-clad copper wires	-196 to 150°C	25mm	KFR-2-350-C1-11	
<b>KFR-1-350-C1-11</b> 16 23	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer) 	-10 to 80°C	1m	KFR-1-350-C1-11 L1M3R	
			3m	KFR-1-350-C1-11 L3M3R	
			5m	KFR-1-350-C1-11 L5M3R	
		Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-1-350-C1-11 L1M2R
				3m	KFR-1-350-C1-11 L3M2R
				5m	KFR-1-350-C1-11 L5M2R
		Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-1-350-C1-11 R1M3
				3m	KFR-1-350-C1-11 R3M3
				5m	KFR-1-350-C1-11 R5M3
		Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-1-350-C1-11 R1M2
				3m	KFR-1-350-C1-11 R3M2
				5m	KFR-1-350-C1-11 R5M2
		2 polyester-coated copper wires	-196 to 150°C	30cm	KFR-1-350-C1-11 N30C2
		 30cm		50cm	KFR-1-350-C1-11 N50C2
	 50cm·1m	1m		KFR-1-350-C1-11 N1M2	
	Silver-clad copper wires	-196 to 150°C	25mm	KFR-1-350-C1-11	

**Uniaxial**





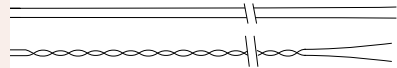




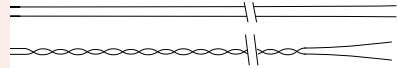
- Base Size 6 x 3.7mm
- Gage Length 2 mm
- Gage Resistance 350Ω
- Pieces per Pack 10

**Uniaxial**

- Base Size 4 x 2.7 mm
- Gage Length 1 mm
- Gage Resistance 350Ω
- Pieces per Pack 10

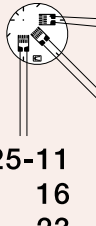



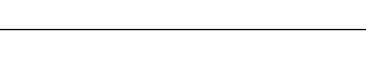

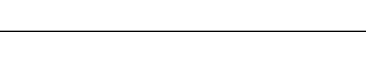


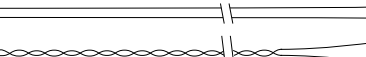
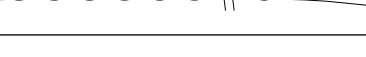


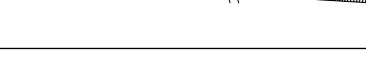
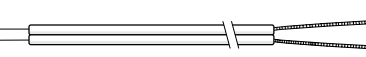




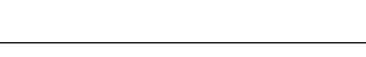
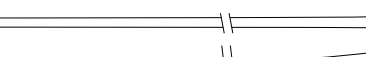
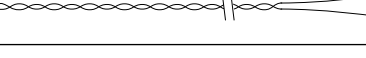


# KFR Gages ● Uniaxial 350Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model		
<b>KFR-05-350-C1-11</b> 16 23	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFR-05-350-C1-11 L1M3R		
			3m	KFR-05-350-C1-11 L3M3R		
			5m	KFR-05-350-C1-11 L5M3R		
		Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-05-350-C1-11 L1M2R	
				3m	KFR-05-350-C1-11 L3M2R	
				5m	KFR-05-350-C1-11 L5M2R	
		Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-05-350-C1-11 R1M3	
				3m	KFR-05-350-C1-11 R3M3	
				5m	KFR-05-350-C1-11 R5M3	
		Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-05-350-C1-11 R1M2	
				3m	KFR-05-350-C1-11 R3M2	
				5m	KFR-05-350-C1-11 R5M2	
		2 polyester-coated copper wires	-196 to 150°C	30cm	KFR-05-350-C1-11 N30C2	
				50cm	KFR-05-350-C1-11 N50C2	
				1m	KFR-05-350-C1-11 N1M2	
	<b>Uniaxial</b> ● Base Size 3.5 x 2.7 mm ● Gage Length 0.5 mm ● Gage Resistance 350Ω ● Pieces per Pack 10	Silver-clad copper wires	-196 to 150°C	25mm	KFR-05-350-C1-11	
<b>KFR-02-350-C1-11</b> 16 23		Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFR-02-350-C1-11 L1M3R	
				3m	KFR-02-350-C1-11 L3M3R	
				5m	KFR-02-350-C1-11 L5M3R	
			Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-02-350-C1-11 L1M2R
					3m	KFR-02-350-C1-11 L3M2R
					5m	KFR-02-350-C1-11 L5M2R
			Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-02-350-C1-11 R1M3
					3m	KFR-02-350-C1-11 R3M3
					5m	KFR-02-350-C1-11 R5M3
			Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-02-350-C1-11 R1M2
					3m	KFR-02-350-C1-11 R3M2
					5m	KFR-02-350-C1-11 R5M2
			2 polyester-coated copper wires	-196 to 150°C	30cm	KFR-02-350-C1-11 N30C2
					50cm	KFR-02-350-C1-11 N50C2
					1m	KFR-02-350-C1-11 N1M2
	<b>Uniaxial</b> ● Base Size 3 x 2.7 mm ● Gage Length 0.2 mm ● Gage Resistance 350Ω ● Pieces per Pack 10	Silver-clad copper wires	-196 to 150°C	25mm	KFR-02-350-C1-11	



# KFR Gages ● Triaxial 350Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model
 <p><b>KFR-1-350-D25-11</b> 16 23 23</p>	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFR-1-350-D25-11 L1M3S
			3m	KFR-1-350-D25-11 L3M3S
			5m	KFR-1-350-D25-11 L5M3S
	Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-1-350-D25-11 L1M2S
			3m	KFR-1-350-D25-11 L3M2S
			5m	KFR-1-350-D25-11 L5M2S
	Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-1-350-D25-11 R1M3
			3m	KFR-1-350-D25-11 R3M3
			5m	KFR-1-350-D25-11 R5M3
	Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-1-350-D25-11 R1M2
			3m	KFR-1-350-D25-11 R3M2
			5m	KFR-1-350-D25-11 R5M2
	2 polyester-coated copper wires	-196 to 150°C	30cm	KFR-1-350-D25-11 N30C2
			50cm	KFR-1-350-D25-11 N50C2
			1m	KFR-1-350-D25-11 N1M2
Triaxial, 0°/90°/45°	Silver-clad copper wires	-196 to 150°C	25mm	KFR-1-350-D25-11
<ul style="list-style-type: none"> <li>● Base Size 8 mmφ</li> <li>● Gage Length 1 mm</li> <li>● Gage Resistance 350Ω</li> <li>● Pieces per Pack 5</li> </ul>				
 <p><b>KFR-05-350-D25-11</b> 16 23 23</p>	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFR-05-350-D25-11 L1M3S
			3m	KFR-05-350-D25-11 L3M3S
			5m	KFR-05-350-D25-11 L5M3S
	Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFR-05-350-D25-11 L1M2S
			3m	KFR-05-350-D25-11 L3M2S
			5m	KFR-05-350-D25-11 L5M2S
	Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFR-05-350-D25-11 R1M3
			3m	KFR-05-350-D25-11 R3M3
			5m	KFR-05-350-D25-11 R5M3
	Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFR-05-350-D25-11 R1M2
			3m	KFR-05-350-D25-11 R3M2
			5m	KFR-05-350-D25-11 R5M2
	2 polyester-coated copper wires	-196 to 150°C	30cm	KFR-05-350-D25-11 N30C2
			50cm	KFR-05-350-D25-11 N50C2
			1m	KFR-05-350-D25-11 N1M2
Triaxial, 0°/90°/45°	Silver-clad copper wires	-196 to 150°C	25mm	KFR-05-350-D25-11
<ul style="list-style-type: none"> <li>● Base Size 7.5 mmφ</li> <li>● Gage Length 0.5 mm</li> <li>● Gage Resistance 350Ω</li> <li>● Pieces per Pack 5</li> </ul>				