

## Gage desination code

Carrier Material  
 J : Polyimide  
 F : Epoxy

Resistance ( $\Omega/10$ )  
 Gage length (mm)

Temperature compensation  
 T11 : Ordinary carbon steel  
 T16 : Stainless steel  
 T23 : Aluminum alloy

**J T - 2 A - 12 D5 T11 W5-3**

Grid configuration  
 - : Single element  
 D : Arrow shape  
 2 : 2 elements  
 3 : 3 elements  
 4 : 4 elements  
 5 : 5 elements  
 S4 : Diaphragm  
 R : Rosette  
 T : Transverse  
 X : Stacked

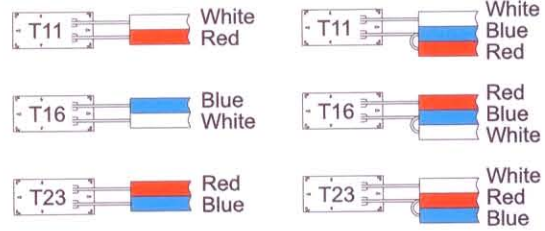
Identifier mark  
 Improvement mark

Creep code  
 Optin code  
 Length of lead : 32 mm  
 A : with cover  
 B : with lead wire  
 C : with cover & lead wire  
 D : with tab & solder

Length of vinyl wire  
 W03 : 0.3 m  
 W1 : 1 m  
 W3 : 3 m  
 W5 : 5 m  
 W3-3 : 3 m & 3 wires  
 W5-3 : 5 m & 3 wires

## Gage desination code




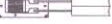

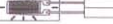


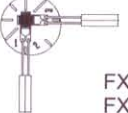
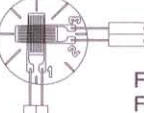
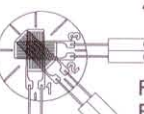



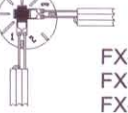
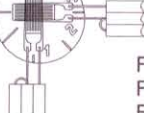

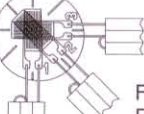
Strain gages of 2 and 3 elements shows the temperature compensation by the color of vinyl wires.



## J-series Polyimide Foil Gage

Gage pattern	Patern No.	Parts No.	Length	Base size	Patern size
	1	J-02-12C0Txx*	0.2	2.5 x 2.0	1.3 x 1.0
	2	J-05-12D0Txx*	0.5	3.0 x 2.5	1.4 x 1.6
	3	J-1-12F0Txx*	1.0	4.1 x 2.5	2.2 x 1.6
	4	J-2-12D0Txx*	2.0	6.0 x 3.6	3.8 x 2.0
	5	J-3-12D5Txx*	3.0	6.9 x 4.7	5.2 x 3.0
	6	J-4-12D0Txx*	4.0	8.2 x 3.5	5.6 x 2.0
	7	J-5-12D0Txx*	5.0	10.0 x 3.0	7.5 x 1.8
	8	J-8-12D0Txx*	8.0	14.4 x 6.0	11.0 x 3.3
	9	J-1-35F0Txx*	0.8	3.1 x 2.5	2.1 x 1.6
	10	J-2B35D0Txx*	2.0	5.5 x 3.5	3.6 x 2.6
	11	J-5-35F0Txx*	5.0	10.0 x 3.5	6.9 x 2.4
	12	JT-1-35G0Txx*	1.2+2.8	5.6 x 5.6	4.5 x 4.3
	13	JT-3-35F0Txx*	3.2	7.0 x 10.0	5.5 x 8.6
	14	JD-2-12D0Txx*	2.0	7.0 x 12.0	6.7 x 3.6
	15	JD-4-12D0Txx*	4.0	9.5 x 12.5	6.6 x 9.5
	16	J5-2-12D0Txx*	2.0	19.4 x 7.1	16.5 x 4.5
	17	JS4-16-35D5Txx*	-	20.4 x 20.4	$\phi$ 16
	18	JS4-9C35B5Txx*	-	10.0 x 10.0	$\phi$ 9.3
	19	J-02-12TxxW03	0.2	2.5 x 2.0	1.3 x 1.0
	20	J-05-12TxxW03	0.5	3.0 x 2.5	1.4 x 1.6
	21	J-1-12TxxW03	1.0	4.1 x 2.5	2.2 x 1.6
	22	J-2-12TxxW03	2.0	6.0 x 3.6	3.8 x 2.0
	23	J-3-12TxxW03	3.0	6.9 x 4.7	5.2 x 3.0
	24	J-4-12TxxW03	4.0	8.2 x 3.5	5.6 x 2.0
	25	J-5-12TxxW03	5.0	10.0 x 3.5	6.9 x 2.4
	26	J-8-12TxxW03	8.0	14.4 x 6.0	11.0 x 3.3
	27	J-02-12TxxW3-3	0.2	2.5 x 2.0	1.3 x 1.0
	28	J-1-12TxxW3-3	1.0	4.1 x 2.5	2.2 x 1.6
	29	J-2-12TxxW3-3	2.0	6.0 x 3.6	3.8 x 2.0
	30	J-5-12TxxW3-3	5.0	10.0 x 3.5	6.9 x 2.4

## F-series Epoxy Foil Gage

Gage pattern			Patern No.	Parts No.	Lengthy	Base size	Patern Size
 <p>31</p> <p>F-02W-12T11W03 F-02W-12T11W3</p>	 <p>32</p> <p>F-05W-12T11W03 F-05W-12T11W3</p>	 <p>33</p> <p>F-1S-12MT11W03 F-1S-12MT11W1 F-1S-12MT11W3 F-1S-12MT11W5</p>	31	F-02W-12T11W03 F-02W-12T11W3	0.2	2.7 x 2.2	1.3 x 1.0
			32	F-05W-12T11W03 F-05W-12T11W3	0.5	3.0 x 2.5	1.3 x 1.4
 <p>34</p> <p>F-2-12T11W03 F-2-12T11W1 F-2-12T11W3 F-2-12T11W5</p>	 <p>35</p> <p>F-3N-12T11W03 F-3N-12T11W1 F-3N-12T11W3 F-3N-12T11W5</p>	 <p>36</p> <p>F-4-12T11W03 F-4-12T11W3</p>	33	F-1S-12MT11W03 F-1S-12MT11W1 F-1S-12MT11W3 F-1S-12MT11W5	1.0	5.2 x 2.5	2.6 x 1.4
			34	F-2-12T11W03 F-2-12T11W1 F-2-12T11W3 F-2-12T11W5	2.0	6.7 x 3.0	4.3 x 1.9
			35	F-3N-12T11W03 F-3N-12T11W1 F-3N-12T11W3 F-3N-12T11W5	3.0	9.0 x 3.5	6.0 x 1.8
			36	F-4-12T11W03 F-4-12T11W3	4.0	8.2 x 3.5	5.6 x 2.0
 <p>37</p> <p>F-5N-12T11W03 F-5N-12T11W3 F-5N-12T11W5</p>	 <p>38</p> <p>F-8-12T11W03 F-8-12T11W3</p>		34	F-2-12T11W03 F-2-12T11W1 F-2-12T11W3 F-2-12T11W5	2.0	6.7 x 3.0	4.3 x 1.9
			37	F-5N-12T11W03 F-5N-12T11W3 F-5N-12T11W5	5.0	10.2 x 3.0	7.6 x 1.8
 <p>39</p> <p>FX-2-12T11W03 FX-2-12T11W1 FX-2-12T11W3 FX-2-12T11W5</p>	 <p>40</p> <p>FX-5-12T11W03 FX-5-12T11W1 FX-5-12T11W3 FX-5-12T11W5</p>		38	F-8-12T11W03 F-8-12T11W3	8.0	14.5 x 6.0	11.1 x 3.1
			39	FX-2-12T11W03 FX-2-12T11W1 FX-2-12T11W3 FX-2-12T11W5	2.0	φ8.0	4.1 x 1.4
			40	FX-5-12T11W03 FX-5-12T11W1 FX-5-12T11W3 FX-5-12T11W5	5.0	φ12.0	8.0 x 2.5
			41	FR-2-12T11W03 FR-2-12T11W1 FR-2-12T11W3 FR-2-12T11W5	2.0	φ8.0	4.1 x 1.4
 <p>42</p> <p>FR-5-12T11W03 FR-5-12T11W1 FR-5-12T11W3 FR-5-12T11W5</p>			40	FX-5-12T11W03 FX-5-12T11W1 FX-5-12T11W3 FX-5-12T11W5	5.0	φ12.0	8.0 x 2.5
			41	FR-2-12T11W03 FR-2-12T11W1 FR-2-12T11W3 FR-2-12T11W5	2.0	φ8.0	4.1 x 1.4
			42	FR-5-12T11W03 FR-5-12T11W1 FR-5-12T11W3 FR-5-12T11W5	5.0	φ12.0	8.0 x 2.5
			43	F-02W-12T11W3-3 F-02W-12T11W5-3 F-02W-12T11W10-3	0.2	2.7 x 2.2	1.3 x 1.0
 <p>44</p> <p>F-02W-12T11W3-3 F-02W-12T11W5-3 F-02W-12T11W10-3</p>	 <p>45</p> <p>F-2-12T11W3-3 F-2-12T11W5-3 F-2-12T11W10-3</p>	 <p>46</p> <p>F-5N-12T11W3-3 F-5N-12T11W5-3 F-5N-12T11W10-3</p>	43	F-02W-12T11W3-3 F-02W-12T11W5-3 F-02W-12T11W10-3	0.2	2.7 x 2.2	1.3 x 1.0
			44	F-1S-12T11W3-3 F-1S-12T11W5-3 F-1S-12T11W10-3	1.0	3.6 x 2.7	2.2 x 1.0
			45	F-2-12T11W3-3 F-2-12T11W5-3 F-2-12T11W10-3	2.0	6.7 x 3.0	4.3 x 1.9
 <p>47</p> <p>FX-2-12T11W3-3 FX-2-12T11W5-3 FX-2-12T11W10-3</p>	 <p>48</p> <p>FX-5-12T11W3-3 FX-5-12T11W5-3 FX-5-12T11W10-3</p>		44	F-1S-12T11W3-3 F-1S-12T11W5-3 F-1S-12T11W10-3	1.0	3.6 x 2.7	2.2 x 1.0
			46	F-5N-12T11W3-3 F-5N-12T11W5-3 F-5N-12T11W10-3	5.0	10.2 x 3.0	7.6 x 1.8
			47	FX-2-12T11W3-3 FX-2-12T11W5-3 FX-2-12T11W10-3	2.0	φ8.0	4.1 x 1.4
 <p>49</p> <p>FR-2-12T11W3-3 FR-2-12T11W5-3 FR-2-12T11W10-3</p>	 <p>50</p> <p>FR-5-12T11W3-3 FR-5-12T11W5-3 FR-5-12T11W10-3</p>		48	FX-5-12T11W3-3 FX-5-12T11W5-3 FX-5-12T11W10-3	5.0	φ12.0	8.0 x 2.5
			49	FR-2-12T11W3-3 FR-2-12T11W5-3 FR-2-12T11W10-3	2.0	φ8.0	4.1 x 1.4
			50	FR-5-12T11W3-3 FR-5-12T11W5-3 FR-5-12T11W10-3	5.0	φ12.0	8.0 x 2.5

## Strain Gages for Concrete

# KFG

- Gage factor Approx. 2.1
- Applicable linear expansion coefficient 11
- Self-temperature compensation range 10 to 100°C

### Applicable Adhesives and Operating Temperature Ranges

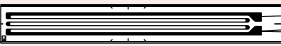
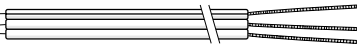



PC-12: -10 to 80°C  
CC-35: -10 to 80°C

### ■ General-purpose Foil Strain Gages






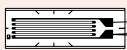




Listed here are leadwire-equipped gages selected from KFG gages applicable to strain measurement for concrete.

Note: For the types and lengths of the leadwires, refer to page 32.

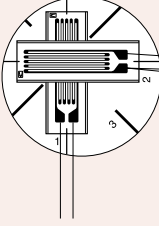
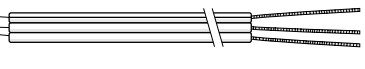
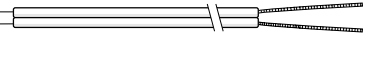
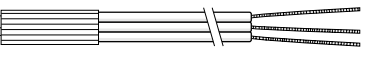
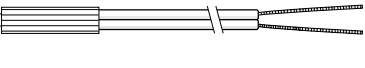
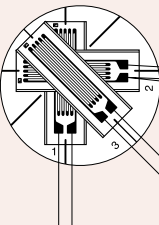
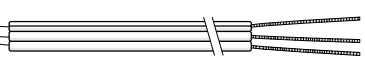
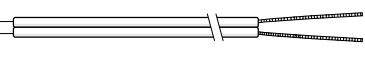
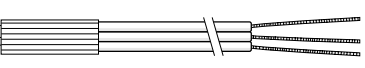
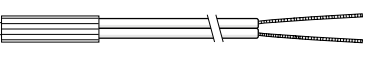
## KFG Gages ● Uniaxial 120Ω

Pattern	Leadwire Cable - Type and Shape	Operating Temp. Range	Leadwire Length	Model	
 <p><b>KFG-30-120-C1-11</b></p> <p><b>Uniaxial</b></p> <ul style="list-style-type: none"> <li>● Base Size <span style="float: right;">37 x 5.2 mm</span></li> <li>● Gage Length <span style="float: right;">30 mm</span></li> <li>● Gage Resistance <span style="float: right;">120Ω</span></li> <li>● Pieces per Pack <span style="float: right;">10</span></li> </ul>	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFG-30-120-C1-11 <b>L1M3R</b>	
				3m	KFG-30-120-C1-11 <b>L3M3R</b>
				5m	KFG-30-120-C1-11 <b>L5M3R</b>
		Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFG-30-120-C1-11 <b>L1M2R</b>
		3m		KFG-30-120-C1-11 <b>L3M2R</b>	
		5m		KFG-30-120-C1-11 <b>L5M2R</b>	
		Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFG-30-120-C1-11 <b>R1M3</b>
				3m	KFG-30-120-C1-11 <b>R3M3</b>
				5m	KFG-30-120-C1-11 <b>R5M3</b>
		Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFG-30-120-C1-11 <b>R1M2</b>
				3m	KFG-30-120-C1-11 <b>R3M2</b>
				5m	KFG-30-120-C1-11 <b>R5M2</b>

# KFG Gages ● Uniaxial 120Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
 <p><b>KFG-20-120-C1-11</b></p> <p><b>Uniaxial</b></p> <ul style="list-style-type: none"> <li>● Base Size 28 x 8 mm</li> <li>● Gage Length 20 mm</li> <li>● Gage Resistance 120Ω</li> <li>● Pieces per Pack 10</li> </ul>	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFG-20-120-C1-11 L1M3R	
			3m	KFG-20-120-C1-11 L3M3R	
			5m	KFG-20-120-C1-11 L5M3R	
		Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFG-20-120-C1-11 L1M2R
		3m		KFG-20-120-C1-11 L3M2R	
		5m		KFG-20-120-C1-11 L5M2R	
		Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFG-20-120-C1-11 R1M3
		3m		KFG-20-120-C1-11 R3M3	
		5m		KFG-20-120-C1-11 R5M3	
		Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFG-20-120-C1-11 R1M2
		3m		KFG-20-120-C1-11 R3M2	
		5m		KFG-20-120-C1-11 R5M2	
 <p><b>KFG-10-120-C1-11</b></p> <p><b>Uniaxial</b></p> <ul style="list-style-type: none"> <li>● Base Size 16 x 5.2 mm</li> <li>● Gage Length 10 mm</li> <li>● Gage Resistance 120Ω</li> <li>● Pieces per Pack 10</li> </ul>	Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)	-10 to 80°C	1m	KFG-10-120-C1-11 L1M3R	
			3m	KFG-10-120-C1-11 L3M3R	
			5m	KFG-10-120-C1-11 L5M3R	
		Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)	-10 to 80°C	1m	KFG-10-120-C1-11 L1M2R
		3m		KFG-10-120-C1-11 L3M2R	
		5m		KFG-10-120-C1-11 L5M2R	
		Middle-temperature 3-wire cable L-12	-100 to 150°C	1m	KFG-10-120-C1-11 R1M3
		3m		KFG-10-120-C1-11 R3M3	
		5m		KFG-10-120-C1-11 R5M3	
		Middle-temperature 2-wire cable L-11	-100 to 150°C	1m	KFG-10-120-C1-11 R1M2
		3m		KFG-10-120-C1-11 R3M2	
		5m		KFG-10-120-C1-11 R5M2	

# KFG Gages ● Biaxial 120Ω/Triaxial 120Ω

Pattern	Leadwire Cable – Type and Shape	Operating Temp. Range	Leadwire Length	Model	
 <p><b>KFG-10-120-D16-11</b></p> <p><b>Biaxial, 0°/90° stacked rosette</b></p> <ul style="list-style-type: none"> <li>● Base Size 21 mmφ</li> <li>● Gage Length 10 mm</li> <li>● Gage Resistance 120Ω</li> <li>● Pieces per Pack 10</li> </ul>	<p>Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)</p> 	-10 to 80°C	1m	KFG-10-120-D16-11 L1M3S	
				3m	KFG-10-120-D16-11 L3M3S
				5m	KFG-10-120-D16-11 L5M3S
		<p>Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)</p> 	-10 to 80°C	1m	KFG-10-120-D16-11 L1M2S
				3m	KFG-10-120-D16-11 L3M2S
				5m	KFG-10-120-D16-11 L5M2S
		<p>Middle-temperature 3-wire cable L-12</p> 	-100 to 150°C	1m	KFG-10-120-D16-11 R1M3
				3m	KFG-10-120-D16-11 R3M3
				5m	KFG-10-120-D16-11 R5M3
		<p>Middle-temperature 2-wire cable L-11</p> 	-100 to 150°C	1m	KFG-10-120-D16-11 R1M2
				3m	KFG-10-120-D16-11 R3M2
				5m	KFG-10-120-D16-11 R5M2
 <p><b>KFG-10-120-D17-11</b></p> <p><b>Triaxial, 0°/90°/45° stacked rosette for stress analysis</b></p> <ul style="list-style-type: none"> <li>● Base Size 21 mmφ</li> <li>● Gage Length 10 mm</li> <li>● Gage Resistance 120Ω</li> <li>● Pieces per Pack 10</li> </ul>	<p>Vinyl-coated flat 3-wire cable L-7 (L-10 for 6m or longer)</p> 	-10 to 80°C	1m	KFG-10-120-D17-11 L1M3S	
				3m	KFG-10-120-D17-11 L3M3S
				5m	KFG-10-120-D17-11 L5M3S
		<p>Vinyl-coated flat 2-wire cable L-6 (L-9 for 6m or longer)</p> 	-10 to 80°C	1m	KFG-10-120-D17-11 L1M2S
				3m	KFG-10-120-D17-11 L3M2S
				5m	KFG-10-120-D17-11 L5M2S
		<p>Middle-temperature 3-wire cable L-12</p> 	-100 to 150°C	1m	KFG-10-120-D17-11 R1M3
				3m	KFG-10-120-D17-11 R3M3
				5m	KFG-10-120-D17-11 R5M3
		<p>Middle-temperature 2-wire cable L-11</p> 	-100 to 150°C	1m	KFG-10-120-D17-11 R1M2
				3m	KFG-10-120-D17-11 R3M2
				5m	KFG-10-120-D17-11 R5M2