Low-Temperature Strain Gages

Case Resistance, Gage Factor Model Order Length Width Length Width Remarks length Width CKFL Series Low-Temperature roll Strain Cages The gage aloment is made of NCr aloy, which exhibits excellent characteristics under fore-strain gages containing low-temperature induced by strain measurement of transcentratics of the series gages are subable for strain measurement of transcentratics of the series gages are subable for strain measurement of transcentratics of the series gages are subable for strain measurement of transcentratics of the series gages are subable for strain measurement of transcentratics of the series gages are subable for strain measurement of transcentratics of the series gages are subable for strain measurement of transcentratics of the series of the series of the series gages are subable for strain measurement of transcentratics of the series of transcentratics of the series of the series gages are subable for strain measurement of transcentratics of the series of transcentratics of the series of the ser	Battorn					Dimensio			
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and vessels containing low-left perturb liquids such as LNG and LPG. Applicable Adhesives and Operating Temperature Requess fairs curves the set of the model (see table of the right) on the right) of the r		films. Thus, the KFL series gages are suitable for strain measurement of tanks							
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UIC-26B -160 to 50°C (mainly for concrete and lumber) Output to consist PC-600 -269 to 150°C C-33A -196 to 120°C When ordering, suffix the leading table code (see table at the off) Types, lengths and codes of leadvine cables pre-attached to KFL series gages Examples : (KFL-5-120-C1-11 FBM3) Types, lengths and codes of leadvine cables and leadvine cables of leadvine c		Applicable	Adhesives	and Oner	ating	n Temperat	ure R	ange aft	er Curina
When ordering, suffix the leadwing cable code (see table at the right) to model number with a space state between the aftwore shows per attached to KFL series gages Types, lengths and codes of leadwine cables pre-attached to KFL series gages When ordering, suffix the leadwing cable code (see table at the right) to model number with a space shows the aftwore shows the shows the high/low-temperature 3-wire cable 5 or long pre-attached Types, lengths and codes of leadwine cables pre-attached to KFL series gages Uniaxial 350- gages Nisce Nisce <td></td> <td colspan="8">$1/2-26B = 106$ to $50^{\circ}C$ (mainly for concrete and lymbor)</td>		$1/2-26B = 106$ to $50^{\circ}C$ (mainly for concrete and lymbor)							
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Uniaxial 350- gages Leads Leads Field Field <td>cable code (see table at the right) to</td> <td></td> <td>2-wire copper cable</td> <td>3-wire copper</td> <td>r cable</td> <td>2-wire cable</td> <td>3-</td> <td>wire cable</td> <td>3-wire cable</td>	cable code (see table at the right) to		2-wire copper cable	3-wire copper	r cable	2-wire cable	3-	wire cable	3-wire cable
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Ing provesting advise dable 3 with each of the second s	for the gage with a fluororesin-coated	10	N15C2	N15C3	2	B15C2		B15C3	E15C3
Image addition code is suffixed, the age is additioned with additio	long pre-attached	30	N30C2	N30C3	,	B30C2		R30C3	F30C3
The gape is delivered with gape leads only (silver-clad copper wires 25 mm long each). Time Time <thtime< th=""> Time Time<</thtime<>	If no leadwire cable code is suffixed	50	N50C2	N50C3	3	R50C2		R50C3	F50C3
Only (silver-clad copper wires 2:5 mm long each). Parks P	the gage is delivered with gage leads	1 m	N1M2	N1M3		R1M2		R1M3	F1M3
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$\frac{ }{ $		size from 120Ω gages.							
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$\frac{\text{KFL-5-120-C1-23}}{\text{KFL-2-120-C1-11}} \\ \frac{\text{KFL-2-120-C1-11}}{\text{KFL-2-120-C1-23}} \\ \frac{\text{KFL-2-120-C1-23}}{\text{KFL-1-120-C1-11}} \\ \frac{\text{KFL-1-120-C1-16}}{\text{KFL-1-120-C1-16}} \\ 1 \\ \frac{\text{KFL-1-120-C1-23}}{\text{KFL-05-120-C1-16}} \\ \frac{\text{KFL-05-120-C1-16}}{\text{KFL-05-120-C1-16}} \\ \frac{\text{KFL-05-120-C1-16}}{\text{KFL-02-122-C1-11}} \\ \frac{\text{KFL-02-120-C1-16}}{\text{KFL-02-120-C1-16}} \\ \frac{\text{KFL-02-120-C1-16}}{\text{KFL-02-120-C1-16}} \\ \frac{\text{KFL-02-120-C1-23}}{\text{KFL-02-120-C1-23}} \\ \frac{\text{KFL-02-120-C1-11}}{\text{KFL-02-120-C2-11}} \\ \frac{\text{KFL-02-120-C2-11}}{\text{KFL-02-120-C2-11}} \\ \frac{\text{KFL-02-120-C2-11}}{$							10	3.7	
$\frac{\text{KFL-2-120-C1-11}}{\text{KFL-2-120-C1-16}} \\ \text{KFL-2-120-C1-23} \\ \text{KFL-3-120-C1-23} \\ \text{KFL-1-120-C1-16} \\ \text{KFL-1-120-C1-16} \\ \text{KFL-1-120-C1-16} \\ \text{KFL-1-120-C1-16} \\ \text{KFL-05-120-C1-11} \\ \text{KFL-05-120-C1-16} \\ \text{KFL-05-120-C1-16} \\ \text{KFL-05-120-C1-16} \\ \text{KFL-05-120-C1-16} \\ \text{KFL-02-120-C1-16} \\ \text{KFL-02-120-C1-23} \\ KF$		KFL-5-120-C1-23							
$\frac{\text{KFL-2-120-C1-16}}{\text{KFL-2-120-C1-23}} \\ \begin{array}{c} \text{KFL-2-120-C1-23} \\ \text{KFL-1-120-C1-11} \\ \text{KFL-1-120-C1-16} \\ \text{KFL-1-120-C1-23} \\ \text{KFL-05-120-C1-16} \\ \text{KFL-05-120-C1-23} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-C1-16} \\ \text{KFL-05-120-C1-23} \\ \text{KFL-05-120-C1-23} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-C1-16} \\ \text{KFL-05-120-C1-23} \\ \text{KFL-05-120-C1-23} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-C1-23} \\ \text{KFL-05-120-C1-23} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-C1-23} \\ \text{KFL-05-120-C1-23} \\ \text{KFL-05-120-C1-23} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-C1-23} \\ \text{KFL-05-120-C1-23} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-C1-23} \\ \text{KFL-05-120-D25-16} \\ \text{KFL-05-120-D25-16} \\ \text{KFL-05-120-D25-16} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-16} \\ \text{KFL-05-120-D25-16} \\ \text{KFL-05-120-D25-16} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-16} \\ \text{KFL-05-120-D25-23} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \end{array} $ \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \text{KFL-05-120-D25-23} \\ \end{array} \\ \end{array} \\ \begin{array}{c} KFL-0		KFL-2-120-C1-11							
$\frac{\text{KFL-2-120-C1-23}}{\text{KFL-1-120-C1-11}}$ $\frac{\text{KFL-1-120-C1-16}}{\text{KFL-1-120-C1-23}}$ $\frac{1}{1.5}$ $\frac{4}{2.7}$ $\frac{2.7}{1.4}$ $\frac{3.3}{2.7}$ $\frac{2.7}{1.4}$ $\frac{3.3}{2.7}$ $\frac{2.7}{1.4}$ $\frac{3.3}{1.4}$ $\frac{2.7}{1.4}$ $\frac{3.3}{1.4}$ $\frac{2.7}{1.4}$ $\frac{3.3}{1.4}$ $\frac{2.7}{1.4}$		KFL-2-120-C1-16			2	2.5	6	3.7	
$\frac{\text{KFL-1-120-C1-11}}{\text{KFL-1-120-C1-23}} + 1 + 1.5 + 4 + 2.7$ $\frac{\text{KFL-1-120-C1-23}}{\text{KFL-05-120-C1-11}} + 1 + 1.5 + 4 + 2.7$ $\frac{\text{KFL-05-120-C1-23}}{\text{KFL-05-120-C1-16}} + 0.5 + 1.4 + 3.3 + 2.7$ $\frac{\text{KFL-05-120-C1-16}}{\text{KFL-02-120-C1-11}} + 1 + 2.5 + 2.2$ $\frac{\text{KFL-02-120-C1-16}}{\text{KFL-02-120-C1-16}} + 1 + 2.5 + 2.2$ $\frac{\text{KFL-02-120-C1-23}}{\text{KFL-02-120-C1-23}} + 1 + 2.5 + 2.2$ $\frac{\text{KFL-02-120-C1-23}}{\text{KFL-02-120-C1-23}} + 1 + 1.5 + 2.5 + 2.2$ $\frac{\text{KFL-02-120-C1-23}}{\text{KFL-02-120-C1-23}} + 1 + 1.5 + 2.5 + 2.2$ $\frac{\text{KFL-120-D25-11}}{\text{KFL-120-D25-11}} + 1 + 1.5 + 2.5 + 2.2$ $\frac{\text{KFL-120-D25-11}}{\text{KFL-120-D25-16}} + 1 + 1.5 + 2.5 + 2.2$ $\frac{\text{KFL-120-D25-11}}{\text{KFL-120-D25-23}} + 2.5 + 2.5 + 2.2 + 2.5$		KFL-2-120-C1-23			_	-			
$\frac{\text{KFL-1-120-C1-16}}{\text{KFL-1-120-C1-23}}$ 1 1.5 4 2.7 KFL-05-120-C1-11 KFL-05-120-C1-16 0.5 1.4 3.3 2.7 KFL-05-120-C1-16 0.5 1.4 3.3 2.7 KFL-02-120-C1-16 0.2 1 2.5 2.2 KFL-02-120-C1-16 0.2 1 2.5 2.2 Triaxial, 0°/90°/45° Resistance : 120Ω, Gage factor : Approx. 2.1 KFL-02-120-C1-23 KFL-1-120-D25-11 These gages are also available with 350Ω gage resistance, with a slight difference in size from 120Ω gages. KFL-1-120-D25-11 $\frac{1}{\text{KFL-1-120-D25-11}}$ KFL-1-120-D25-16 1 1.5 ϕ_8 A minimum quantity $\frac{5}{\text{ piece}}$ A minimum quantity $\frac{5}{\text{ piece}}$		KFL-1-120-C1-11							
$\frac{KE_{1-120-C1-23}}{KE_{1-05-120-C1-16}} = 1 1.3 4 2.7$ $\frac{KE_{1-05-120-C1-23}}{KE_{1-05-120-C1-23}} = 0.5 1.4 3.3 2.7$ $\frac{KE_{1-05-120-C1-23}}{KE_{1-02-120-C1-16}} = 0.2 1 2.5 2.2$ $\frac{KE_{1-02-120-C1-16}}{KE_{1-02-120-C1-23}} = 0.2 1 2.5 2.2$ $\frac{Triaxial, 0^{\circ}{90^{\circ}}{45^{\circ}}}{Fesistance : 120\Omega, Gage factor : Approx. 2.1} = 1 1.5 \varphi_8 A \text{ minimum quantity} \\ \frac{KE_{1-120-D25-11}}{KE_{1-120-D25-16}} = 1 1.5 \varphi_8 A \text{ minimum quantity} \\ \frac{KE_{1-120-D25-16}}{Fe_{1-120-D25-16}} = 0.5 1.4 \varphi_{7.5} A \text{ minimum quantity} \\ \frac{KE_{1-05-120-D25-23}}{FE_{1-05-120-D25-23}} = 0.5 1.4 \varphi_{7.5} A \text{ minimum quantity} \\ \frac{Spiece}{Spiece} = 0.5 1.4 Spiece = 0.5 Spiece =$		KEL-1-120-C1-16			-1	15	1	07	
$\frac{KFL-1-120-C1-23}{KFL-05-120-C1-11}$ $\frac{KFL-05-120-C1-16}{KFL-05-120-C1-23}$ $\frac{KFL-02-120-C1-16}{KFL-02-120-C1-16}$ 0.2 1 2.5 2.2 $\frac{KFL-02-120-C1-16}{KFL-02-120-C1-23}$ 0.2 1 2.5 2.2 $\frac{KFL-02-120-C1-23}{KFL-02-120-C1-23}$ 1 1 1 1.5 $\frac{1}{9}$ 1		KEL-1-120-01-23			1	1.5	4	2.1	
$\frac{KFL-05-120-C1-11}{KFL-05-120-C1-16} \qquad 0.5 \qquad 1.4 \qquad 3.3 \qquad 2.7$ $\frac{KFL-05-120-C1-23}{KFL-02-120-C1-11} \qquad 0.5 \qquad 1.4 \qquad 3.3 \qquad 2.7$ $\frac{KFL-02-120-C1-13}{KFL-02-120-C1-16} \qquad 0.2 \qquad 1 \qquad 2.5 \qquad 2.2$ $\frac{KFL-02-120-C1-16}{KFL-02-120-C1-23} \qquad 0.2 \qquad 1 \qquad 2.5 \qquad 2.2$ $\frac{Friaxial, 0^\circ90^\circ45^\circ}{KFL-02-120-C1-23} \qquad 1 \qquad 1.5 \qquad 1 \qquad 1 \qquad 1.5 \qquad 1 \qquad$									
$\frac{\text{KFL-05-120-C1-16}}{\text{KFL-05-120-C1-23}} = 0.5 1.4 3.3 2.7$ $\frac{\text{KFL-05-120-C1-23}}{\text{KFL-02-120-C1-11}} = 0.2 1 2.5 2.2$ $\frac{\text{KFL-02-120-C1-16}}{\text{KFL-02-120-C1-23}} = 0.2 1 2.5 2.2$ $\frac{\text{KFL-02-120-C1-23}}{\text{KFL-02-120-C1-23}} = 1 1.5 \emptyset = 1 1.5 0.5 1.4 \emptyset = 1 1.5 \emptyset = 1 1.5 0.5 1.4 \emptyset = 1 1.5 0.5 1.4 \emptyset = 1 0.5 $		KFL-05-120-C1-11							
$\frac{\text{KFL-05-120-C1-23}}{\text{KFL-02-120-C1-11}} \\ \text{KFL-02-120-C1-16} \\ \text{KFL-02-120-C1-23} \\ 0.2 1 2.5 2.2 \\ \text{KFL-02-120-C1-23} \\ \text{FL-02-120-C1-23} \\ FL-$		KFL-05-120-C1-16			0.5	5 1.4	3.3	2.7	
$\frac{KFL-02-120-C1-11}{KFL-02-120-C1-16} 0.2 1 2.5 2.2$ $\frac{KFL-02-120-C1-23}{KFL-02-120-C1-23} 1 1.5 \emptyset \otimes \mathbb{R}$ $\frac{KFL-02-120-C1-23}{KFL-1-120-D25-11} 1 1.5 \emptyset \otimes \mathbb{R}$ $\frac{KFL-1-120-D25-16}{KFL-05-120-D25-11} 1 1.5 \emptyset \otimes \mathbb{R}$ $\frac{KFL-05-120-D25-16}{KFL-05-120-D25-16} 0.5 1.4 \emptyset \times 1.5 0.5 $		KFL-05-120-C1-23							
$\frac{KFL-02-120-C1-16}{KFL-02-120-C1-23} 0.2 1 2.5 2.2$ $\frac{KFL-02-120-C1-23}{KFL-02-120-C1-23}$ $\frac{KFL-02-120-C1-23}{KFL-02-120-C1-23} 0.2 1 2.5 2.2$ $\frac{KFL-02-120-C1-23}{KFL-02-120-C1-23} 1 5 2.2$ $\frac{KFL-02-120-C1-23}{KFL-02-120-C1-23} 1 1.5 \varphi 8 A \text{ minimum quantity} \\ \frac{KFL-02-120-D25-16}{KFL-02-120-D25-11} 1 1.5 \varphi 8 A \text{ minimum quantity} \\ \frac{KFL-05-120-D25-16}{KFL-05-120-D25-16} 0.5 1.4 \varphi 7.5 A \text{ minimum quantity} \\ \frac{FI-02-120-D25-16}{FI-02-120-D25-23} 0.5 1.4 \varphi 7.5 A \text{ minimum quantity} \\ \frac{FI-02-120-D25-23}{FI-02-120-D25-23} 0.5 1.4 \varphi 7.5 A \text{ minimum quantity} \\ \frac{FI-02-120-D25-23}{FI-02-120-D25-23} 0.5$		KFL-02-120-C1-11							
KFL-02-120-C1-23 KFL-02-120-C1-23 Triaxial, 0°/90°/45° These gages are also available with 350Ω gage resistance, with a slight difference in size from 120Ω gages. A minimum quantity 5 piece KFL-1-120-D25-16 1 1.5 Ø8 A minimum quantity 5 piece KFL-05-120-D25-16 0.5 1.4 Ø7.5 A minimum quantity 5 piece		KFL-02-120-C1-16			0.2	2 1	2.5	2.2	
Triaxial, 0°/90°/45°Resistance : 120 Ω , Gage factor : Approx. 2.1These gages are also available with 350 Ω gage resistance, with a slight difference in size from 120 Ω gages.KFL-1-120-D25-11KFL-1-120-D25-1611.5 $\phi 8$ A minimum quantity 5 pieceKFL-05-120-D25-160.51.4 $\phi 7.5$ A minimum quantity 5 piece		KFL-02-120-C1-23							
ITIAXIAI, 0'790'745'Resistance : 120 Ω , Gage factor : Approx. 2.1These gages are also available with 350 Ω gage resistance, with a slight difference in size from 120 Ω gages.KFL-1-120-D25-11KFL-1-120-D25-1611.5 $\phi 8$ A minimum quantity 5 pieceKFL-05-120-D25-160.51.4 $\phi 7.5$ A minimum quantity 5 piece									
Resistance : 120Ω, Gage factor : Approx. 2.1These gages are also available with 350Ω gage resistance, with a slight difference in size from 120Ω gages.KFL-1-120-D25-11KFL-1-120-D25-1611.5 $\phi 8$ A minimum quantity 5 pieceKFL-05-120-D25-11KFL-05-120-D25-160.51.4 $\phi 7.5$ A minimum quantity 5 piece	I riaxial, $0^{\circ}/90^{\circ}/45^{\circ}$								
size from 120Ω gages. KFL-1-120-D25-11 KFL-1-120-D25-16 KFL-1-120-D25-23 KFL-05-120-D25-11 KFL-05-120-D25-16 KFL-05-120-D25-16 KFL-05-120-D25-23 KFL-05-120-D25-23	Resistance : 120Ω , Gage factor : Approx. 2.1	These gages are also available with 350Ω gage resistance, with a slight difference in							
KFL-1-120-D25-11 μ φ8 A minimum quantity 5 piece 45° KFL-1-120-D25-23 1 1.5 φ8 A minimum quantity 5 piece KFL-05-120-D25-11 KFL-05-120-D25-16 0.5 1.4 φ7.5 A minimum quantity 5 piece		size from 120Ω gages.							
KFL-1-120-D25-16 1 1.5 φ8 A minimum quantity 5 piece KFL-1120-D25-23 KFL-05-120-D25-11 φ7.5 A minimum quantity 5 piece KFL-05-120-D25-16 0.5 1.4 φ7.5 A minimum quantity 5 piece		KFL-1-120	0-D25-11						
KFL-1-120-D25-23 KFL-05-120-D25-11 φ7.5 A minimum quantity 5 piece KFL-05-120-D25-23 KFL-05-120-D25-23 0.5 1.4 φ7.5 A minimum quantity 5 piece	1 45°	KFL-1-120-D25-16			1	1.5	0	68	A minimum quantity
KFL-05-120-D25-11 KFL-05-120-D25-16 0.5 1.4 φ7.5 A minimum quantity 5 piece KFL-05-120-D25-23 KFL-05-120-D25-23 0.5 1.4 φ7.5 A minimum quantity 5 piece		KFL-1-120-D25-23			'	1.0	Ŷ		o piece
KFL-05-120-D25-16 0.5 1.4 φ7.5 A minimum quantity 5 piece KFL-05-120-D25-23 KFL-05-120-D25-23 0.5 1.4 φ7.5 A minimum quantity 5 piece	4 5°	KEL-05.1	KFL-05-120-D25-11						
KFL-05-120-D25-10 0.5 1.4 φ7.5 5 piece KFL-05-120-D25-23 5		KEL 05 40	20 D25 16		~ ~		,	7 6	A minimum quantitv
KFL-UD-12U-D2D-23		KEL-05-120-D25-23				0 1.4	ψ1.5		5 piece
		NFL-05-12	20-025-23				_		

STRAIN GAGES

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