

## € CEF-Series High & Low Temperature Strain Gauges



### GENERAL USE

These are strain gauges utilizing polyimide resin for the gauge backing and special alloy foil for the grid. It features a wide range of operating temperature from cryogenic temperature to +200°C. This series is available only in single axis configuration with gauge length of 1,3 and 6mm.

Operating temperature range -269 ~ +200°C	Applicable adhesives
Temperature compensation range (approx.) -196 ~ +80°C	EA-2A - 269 ~ +50°C
	CN - 196 ~ +120°C
	C-1 - 269 ~ +200°C
	EB-2 - 60 ~ +200°C

Please specify the type number as shown in the example below.

**CEFLA -6 -11 -6FA3LT-F**

Objective material for temperature compensation (coefficient of linear thermal expansion  $\times 10^{-6}/^{\circ}\text{C}$ )  
 -11: Mild steel -17:Stainless steel -23:Aluminium ■

Note: The backing color of CEF series gauges are the same for every material for temperature compensation.

### CEF-SERIES / SINGLE AXIS / HIGH & LOW TEMPERATURE /

Gauge pattern	Type	Gauge size(mm)		Backing size(mm)		Resist- ance $\Omega$
		Length	Width	Length	Width	
<p>Single axis</p> <p>CEFLA-1 Q(x 3)</p>						
	CEFLA-1	1	0.5	4	2.2	120
	CEFLA-3	3	0.6	6.9	2.8	120
	CEFLA-6	6	1	10.6	3.1	120

Minimum order quantity is 10 strain gauges.

### Dedicated leadwire recommended for CEF series strain gauges (made to order)

We supply various leadwires dedicated to strain gauges so as to meet our customers' requirements. Please refer to page 32 to 40 for the details of combination of a strain gauge and a leadwire. For CE marked strain gauges, only the leadwires using lead-free solder are available.

#### Type and designation of leadwires

Usage	Leadwire name	Operating temperature range of leadwire ( $^{\circ}\text{C}$ )	Type number example
High & Low temperature	3-wire twisted FEP leadwire 6FA □ LT-F	-269 ~ +200	CEFLA-1-11-6FA3LT-F
	3-wire twisted FEP single-core leadwire 6FB □ LT-F		CEFLA-1-11-6FB3LT-F
	3-wire twisted fluorinated resin (PTFE) leadwire 4FA □ LT-F	-269 ~ +260	CEFLA-1-11-4FA3LT-F
	3-wire twisted fluorinated resin (PTFE) single-core leadwire 4FB □ LT-F		CEFLA-1-11-4FB3LT-F

NB: □ shows the lead wire length in meter