



# Polyester Foil Strain Gauges PF series C€

These are foil strain gauges utilizing a polyester resin backing which is the same as the P series. The gauge length is available in 3 ranges of 10, 20 and 30mm, so it is suited mainly to strain measurement on concrete or mortar.

Operating temperature range	-20~+80°C	Applicable adhesives	CN-E -20~+80°C
Temperature compensation range	+10~+80°C	RP-2 -20~+80°C	PS -20~+80°C

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

**PFL -30 -11 -3LJC-F**

Objective material for temperature compensation (coefficient of linear thermal expansion  $\times 10^{-6}/^{\circ}\text{C}$ )  
-11: Concrete

Gauge pattern	Type	Gauge size(mm)		Backing size(mm)		Resistance $\Omega$
		Length	Width	Length	Width	
<b>● Single axis</b>  PFL-10-11      PFL-20-11 PFL-30-11	Single axis					
	PFL-10-11	10	0.9	17.5	5	120
	PFL-20-11	20	1.2	28	6	120
	PFL-30-11	30	2.3	40	7	120
<b>● 0° /90° 2-axis</b>  PFLC-20-11 Q ( $\times 1/2$ )      PFLC-30-11 Q ( $\times 1/2$ )	0°/90° 2-axis					
	PFLC-20-11	20	1.2	28	28	120
	PFLC-30-11	30	2.3	40	40	120
<b>● 0° /45° /90° 3-axis</b>  PFLR-20-11 Q ( $\times 1/2$ )      PFLR-30-11 Q ( $\times 1/2$ )	0°/45°/90° 3-axis					
	PFLR-20-11	20	1.2	28	28	120
	PFLR-30-11	30	2.3	40	40	120

Minimum order quantity is 10 strain gauges.

## Dedicated leadwire recommended for PF series strain gauges

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 (°C)	Type number example
General purpose (without temperature change)	Paralleled vinyl LJB-F Paralleled vinyl LJC-F	-20 ~ +80	PFL-10-11-3LJB-F PFL-10-11-3LJC-F
General use	3-wire paralleled vinyl LJBT-F 3-wire paralleled vinyl LJCT-F	-20 ~ +80	PFL-10-11-3LJBT-F PFL-10-11-3LJCT-F
1-Gauge 4-Wire measurement	Polypropylene 4-wire paralleled LQM-F	-20 ~ +100	PFL-10-11-3LQM-F (modular plug attached)

NB: No integral leadwire is available for rosette strain gauges PFLC and PFLR.