

LOW ELASTIC STRAIN GAUGES series LF

Suffix code for temperature compensation materials
 -11: Wood, Gypsum

For ordering, the above suffix code should be added to the basic gauge type.



Operating temperature range
 -20°C +80°C
 Temperature compensation range
 +10°C +80°C

Applicable adhesives

CN-E	-20 ~ +80°C
------	-------------

WOOD, GYPSUM USE

Gauge pattern	Basic type	Gauge size		Backing		Resist- ance Ω
		L	W	L	W	
These are foil strain gauges for the measurement on materials having low elastic modulus such as wood or gypsum. These specially designed grid reduces the stiffening effect of the strain gauges to the specimen material. They have a backing made of epoxy resin. These gauges are temperature-compensated for the material having a coefficient of thermal expansion of $11 \times 10^{-6}/^{\circ}\text{C}$. 	Example of type number designation <u>LFLA-10</u> <u>-11</u> <u>-3LJC</u> Length in meter and type of leadwire Self-temperature compensation number Basic strain gauge type, gauge length	Single element		Each package contains 10 gauges.		
	LFLA-10-11	10	3.1	18.5	5.3	120

WOODEN MATERIAL USE Series PFLW/PLW FOR LONG TERM STRAIN GAUGES

Suffix code for temperature compensation materials
 -11: Wood



Operating temperature range
 -20°C +80°C
 Temperature compensation range
 +10°C +80°C

Applicable adhesives

PS	-20 ~ +80°C
----	-------------

WOOD USE

Gauge pattern	Basic type	Gauge size		Backing		Resistance Ω	
		L	W	L	W		
These gauges are specially designed for long term measurement on wood. They have a metal foil lined on the back of the PFL or PL strain gauges. The metal foil is effective to protect the strain gauges from an influence of moisture in the wood. These gauges should be bonded with PS adhesive to make the best of their performance. Single element  PFLW-30-11  PLW-60-11		L : length W : width (Unit:mm)					
	Example of type number designation <u>PFLW-30</u> <u>-11</u> <u>-3LJC</u> Length in meter and type of leadwire Self-temperature compensation number Basic strain gauge type, gauge length						
	Single element	Each package contains 10 gauges.					
PFLW-30-11	30	2.3	40	7	120		
PLW-60-11	60	1	74	8	120		
The PFLW and PLW series are available with 1, 3 or 5m long in 2-wire parallel or 3-wire parallel vinyl leadwires.							
Recommendable integral leadwire for PFLW/PLW series							
Application	Leadwires	Operating temperature (°C)		Leadwire code exempld			
General use (temperature unchanged during measurement)	Paralleled vinyl -LJB -LJC	-20~ +80		PFLW-30-11-3LJB/PLW-60-11-3LJB PFLW-30-11-3LJC/PLW-60-11-3LJC			
General use	3-wire paralleled vinyl -LJBT -LJCT	-20~ +80		PFLW-30-11-3LJBT/PLW-60-11-3LJBT PFLW-30-11-3LJCT/PLW-60-11-3LJCT			
1-gauge 4-wire measurement	0.08mm ² polypropyrene 4-wire paralleled -LQM	-20~ +100		PFLW-30-11-3LQM/PLW-60-11-3LQM			