



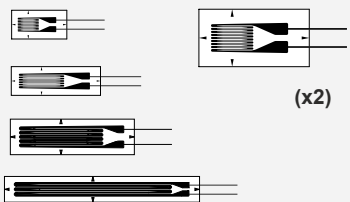
## Series "YF" Post-yield Strain Gauge



Compatible adhesive & Operational temperature  
 CN: - 20~ + 80°C  
 CN-Y: - 20~ + 80°C  
**Strain limit in room-temperature 15~ 20%**

Operational temperature -20~+80°C

### LARGE STRAIN MEASUREMENT

Gauge pattern	Type	Gauge size		Backing		Resistance in $\Omega$
		L	W	L	W	
<p>This gauge is designed for measurement of large strain up to 15 to 20%. It is not applicable to the measurement of repeated strain either in elastic nor in large range. The CN-Y is recommended as an adhesive if the measurement is made after a few days or longer of strain gauge bonding. Large strain measurement is possible even after one year of bonding the gauge with the CN-Y adhesive.</p> <p>•Single-element</p> <p><b>YFLA-2</b></p> <p><b>YFLA-5</b></p> <p><b>YFLA-10</b></p> <p><b>YFLA-20</b></p>  <p>Each package contains 10 gauges.</p>		L : length W : width (Unit : mm)				
Single-element	YFLA-2 YFLA-5 YFLA-10 YFLA-20	2 5 10 20	1.8 2.0 2.6 1.8	7.5 12.0 16.6 26.0	4.0 4.0 4.9 3.7	120 120 120 120

### Info

•YUF/YEF/YF/F applications

Gauge series	Strain	Fatigue limit at room temperature	Change of apparent strain due to cyclic loading of large strains
YUF	20~30% elongation	Not applicable	Not applicable
YEF	10~15% elongation	$5 \times 10^5$ cycles	$2000 \times 10^{-6}$ strain/10 cycles
YF	15~20% elongation	$1 \times 10^2$ cycles	$2000 \times 10^{-6}$ strain/10 cycles
F	3%	$1 \times 10^6$ cycles	$400 \times 10^{-6}$ strain/10 cycles

Fatigue limit : Cyclic loading with  $\pm 1500 \times 10^{-6}$  strain, 15Hz, Apparent strains exceeding  $100 \times 10^{-6}$  strain  
 Large strain :  $\pm 10000 \times 10^{-6}$  strain, 4 min./cycle,  
 Please note that YEF and YF series can not be used for cyclic large strain measurement.

LEADERS IN SENSORS & HEAVY DUTY JOYSTICKS

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