



## Series "YF"



## Description

Compatible adhesive & Operational temperature Compatible adhesive & operational tel CN: - 20~ + 80°C CN-Y: - 20~ + 80°C Strain limit in room-temperature

Operational temperature -20~+80°C

LARGE STRAIN MEASUREMENT									
Gauge pattern		Туре	Gaug L	e size W	Backing L W	Resistance in $\Omega$			
This gauge is designed for measurement of large strain up to 15 to 20%. It is not applicable to the measurement of repeated strain eith 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. •Single-element	er in		L : length	W : w	idth (Unit : mm	)			
YFLA-5		YFLA-2 YFLA-5	2	1.8 2.0	7.5 4.0 12.0 4.0	120 120			
YFLA-10 (x2)	Single- element	YFLA-10 YFLA-20	10 20	2.6 1.8	16.6 4.9 26.0 3.7	120 120 120			
YFLA-20									
Each package contains 10 gauges.									

## YUF/YEF/YF/F applications info

Gauge series	Strain limit	Fatigue limit at room temperature	Change of apparent strain due to cyclic Ioading of large strains
YUF	20~30% elongation	Not applicable	Not applicable
YEF	10~15% elongation	5x10 <sup>5</sup> cycles	2000x10 <sup>-6</sup> strain/10 cycles
YF	15~20% elongation	1x10 <sup>2</sup> cycles	2000x10 <sup>-6</sup> strain/10 cycles
F	3%	1x10 <sup>6</sup> cycles	400x10 <sup>-6</sup> 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.

Page 1/1

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