



Series "YF"



Description

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 Ω	
		L	W	L	W		
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.		L : length		W : width (Unit : mm)			
●Single-element							
YFLA-2	Single-element	2	1.8	7.5	4.0	120	
YFLA-5							
YFLA-10							
YFLA-20							

YUF/YEF/YF/F applications info

Gauge series	Strain limit	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	5x10 ⁵ cycles	2000x10 ⁻⁶ strain/10 cycles
YF	15~20% elongation	1x10 ² cycles	2000x10 ⁻⁶ strain/10 cycles
F	3%	1x10 ⁶ cycles	400x10 ⁻⁶ strain/10 cycles

Fatigue limit : Cyclic loading with ±1500x10⁻⁶ strain, 15Hz, Apparent strains exceeding 100x10⁻⁶ strain
 Large strain : ±10000x10⁻⁶ strain, 4 min./Cycle.
 Please note that YEF and YF series can not be used for cyclic large strain measurement.