

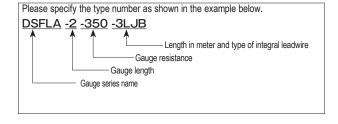
High Endurance Strain Gauges DSF series

These gauges are designed for fatigue tests, and can reach a fatigue life of over 10 million times at a strain level of ±3000 με. Compared to previously (1 million times at ±1500×10-6 strain), these are gauges of exceptionally high durability.

In aviation and other areas, repeated load tests of large elongation of composite materials are conducted. However, it had been necessary to adhere a new strain gauge frequently as a gauge reached its fatigue life. The DSF series greatly reduces time and cost of adhering gauges.

Operating temperature range -60∼+200°C

-60~+120℃ -60~+200℃ FB-2



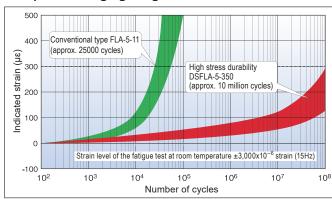
	Gauge pattern		Туре	Gauge : Length	size(mm) Width		size(mm) Width	Resist- ance Ω				
DSFLA-2-350			DSFLA-2-350	2	2	8	3.3	350				
	Q (×3)		DSFLA-5-350	5	2	11	3.2	350				
	Example of strain gauge fatigue test results											
DSFLA-5-350			500									

The strain gauge of this series is not self-temperature-compensated. It is recommended to measure the thermal output prior to the actual measurement using a dummy test piece made of the same material as the object to be measured.

This number is determined as the number of cycles in case a mechanically repeated strain of $\pm 3000 \times 10^{-6}$ strain is applied to the strain gauge before the indicated strain changes by $\pm 300 \times 10^{-6}$ strain.

Minimum order quantity is 10 strain gauges.

These strain gauges are available with integral leadwires attached. (made to order)





BENDING STRAIN

One-side Strain Gauges $\mathbf{D}\mathbf{D}$ series

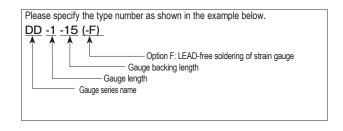
These gauges are intended for measuring the bending and tensile strains separately by simply bonding the gauges on one side of a plate or beam. It works on the assumption that the strain distribution in the section of the specimen is linear along the height of the section when the section is subjected to both tensile and bending stress. The gauges are effectively used for the measurement of a box construction in structures such as bridges or pressure vessels, where the reverse side of the measurement object is not accessible for strain gauge installation

Operating temperature range

-10~+70°C

Applicable adhesives -10~+70°C CN

-10~+70°C



Gauge pattern	Thickness of applicable specimen (mm)	Туре	Gauge s Length	ize(mm) Width	Bacl Length	king siz Width	e(mm) Thickness	Resist- ance Ω
c					a	b	С	
	Approx. 5 or less	DD-1-15	3	2.9	15	7	1	350
a	Approx. 5 to 10	DD-2-30	3	2.9	30	7	2	350
These strain gauges are not self-temperature-compensated. It may be measure a thermal output using a dummy specimen prior to the measurement of th					•	•		