HIGH ENDURANCE STRAIN GAUGES series DSF

Operating temperature range
–60°C ~ +200°C

These strain gauges are not self-temperature-compensated. It may be necessary to measure a thermal output using a dummy specimen prior to the measurement.

M metal | C composite

Applicable adhesives

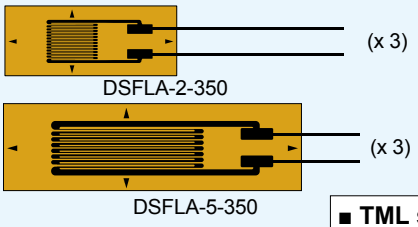
CN	–60 ~ +120°C
C-1	–60 ~ +200°C
EB-2	–60 ~ +200°C

HIGH STRESS FATIGUE TEST

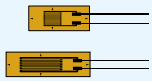
These gauges are designed for fatigue test at high stress level. The gauges satisfy the fatigue life over 10 million times at a strain level of ±3000x10^{-6}. It is available for use in cyclic loading test of composite materials.

CE

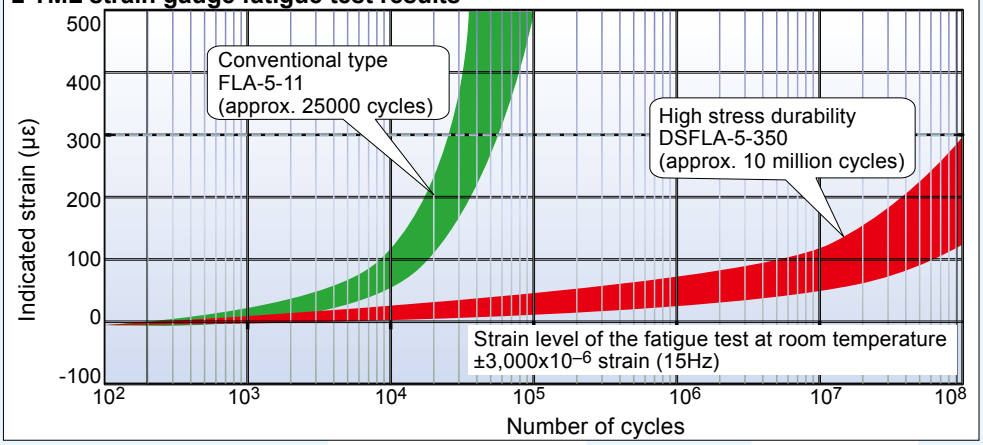
Example of type number designation
DSFLA-2 -350 -3LJB-F
- DSFLA-2: Basic strain gauge type and gauge length
- -350: Gauge resistance
- -3LJB-F: Length in meter and type of leadwire, CE compliant



Each package contains 10 gauges.

Gauge pattern	Basic type	Gauge size L	Gauge size W	Backing L	Backing W	Resistance Ω
	DSFLA-2-350	2	2	8	3.3	350
	DSFLA-5-350	5	2	11	3.2	350

■ TML strain gauge fatigue test results



Fatigue Limit

This number is determined as the number of cycles in case a mechanically repeated strain of ±3000x10^{-6} strain is applied to the strain gauge before the indicated strain changes by ±300x10^{-6} strain.

ONE-SIDE STRAIN GAUGES series DD

Operating temperature range
–10°C ~ +70°C

These strain gauges are not self-temperature-compensated. It may be necessary to measure a thermal output using a dummy specimen prior to the measurement.

M metal

Applicable adhesives

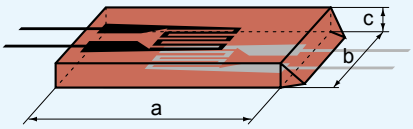
CN	–10 ~ +70°C
P-2	–10 ~ +70°C

ONE-SIDE STRAIN GAUGES

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.

Example of type number designation
DD-1-15 -350 -3LJB
- DD-1-15: Basic strain gauge type
- -350: Gauge resistance
- -3LJB: Length in meter and type of leadwire

Each package contains 5 gauges.



Gauge pattern	Thickness of applicable specimen (mm)	Basic type	Gauge size L	Gauge size W	Backing a	Backing b	Backing c	Resistance Ω
	Approx. 5 or less	DD-1-15	3	2.9	15	7	1	350
	Approx. 5~10	DD-2-30			30	7	2	