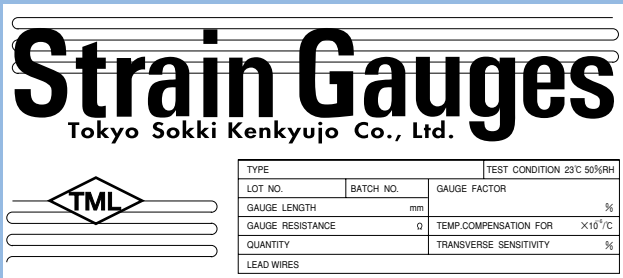


PACKAGE DESIGNATION

TML strain gauges are delivered together with TML Strain Gauge Test Data (example shown below). The evaluation methods conform to the National Aerospace Standard NAS942 (Modified). For installation, handling and bonding procedures, please see the data sheet.

GAUGE PACKAGE



GAUGE PACKAGE

Batch No.
Production code for procedure and history

Environment
Temperature in degrees centigrade and relative humidity in % at which the test data are obtained.

Gauge type	TYPE	FLA-3-11	TEST CONDITION	23°C 50%RH
Lot No.	LOT NO.	A502515	BATCH NO.	UK32K
Production number of element ingot	GAUGE LENGTH	3	mm	GAUGE FACTOR
	GAUGE RESISTANCE	120±0.3	Ω	2.14 ±1%
	QUANTITY	10		TEMP.COMPENSATION FOR
				11 ×10 ⁻⁶ /°C
				TRANSVERSE SENSITIVITY
				0.0 %

Quantity
Number of gauges contained in a package

Gauge resistance
Electrical resistance of the strain gauge under free conditions at room temperature, unbonded as supplied. Various range (60, 120, 350, or 1000 Ω) are available.

Gauge length
This represents the actual grid length in the sensitive direction. Within this length, the measured strain is averaged.

Ratio of transverse sensitivity
The sensitivity in the direction perpendicular to the axial direction is given in percent.

Applicable temperature compensation
Various temperature compensation values are available(3, 5, 8, 11, 17, 23, 50, 70 ppm/°C) (Blank is not for temperature compensation.)

Gauge factor with tolerance
This factor is a ratio of the resistance variation to the strain generated due to the uniaxial stress in the direction of the gauge axis.

COLOR CODING FOR TEST SPECIMEN

Colors of package label differ from test specimen.

Test specimen	Linear thermal expansion coefficient	Coloring	Gauge type exemplified
Mild steel (ferritic)	11ppm /°C	Red	FLA-3-11-5LT
Stainless steel Copper alloy	17ppm /°C	Brown	FLA-3-17-5LT
Aluminium	23ppm/°C	Green	FLA-3-23-5LT
Others	—	Grey	GFLA-3-70-5LT

LEADWIRE-INTEGRATED STRAIN GAUGE PACKAGE

TYPE	FLA-3-11-5LT		
LOT NO.	A510511	GAUGE LENGTH	3 mm
GAUGE FACTOR	2.14		±1%
GAUGE RESISTANCE	119.5±0.5 Ω	QUANTITY	10
TEMP.COMPENSATION FOR	11 ×10 ⁻⁶ /°C	TEST CONDITION	23°C 50%RH
TRANSVERSE SENSITIVITY	0.0 %	BATCH NO.	ZF28T
LEAD WIRES	10/0.12 3W 5m		



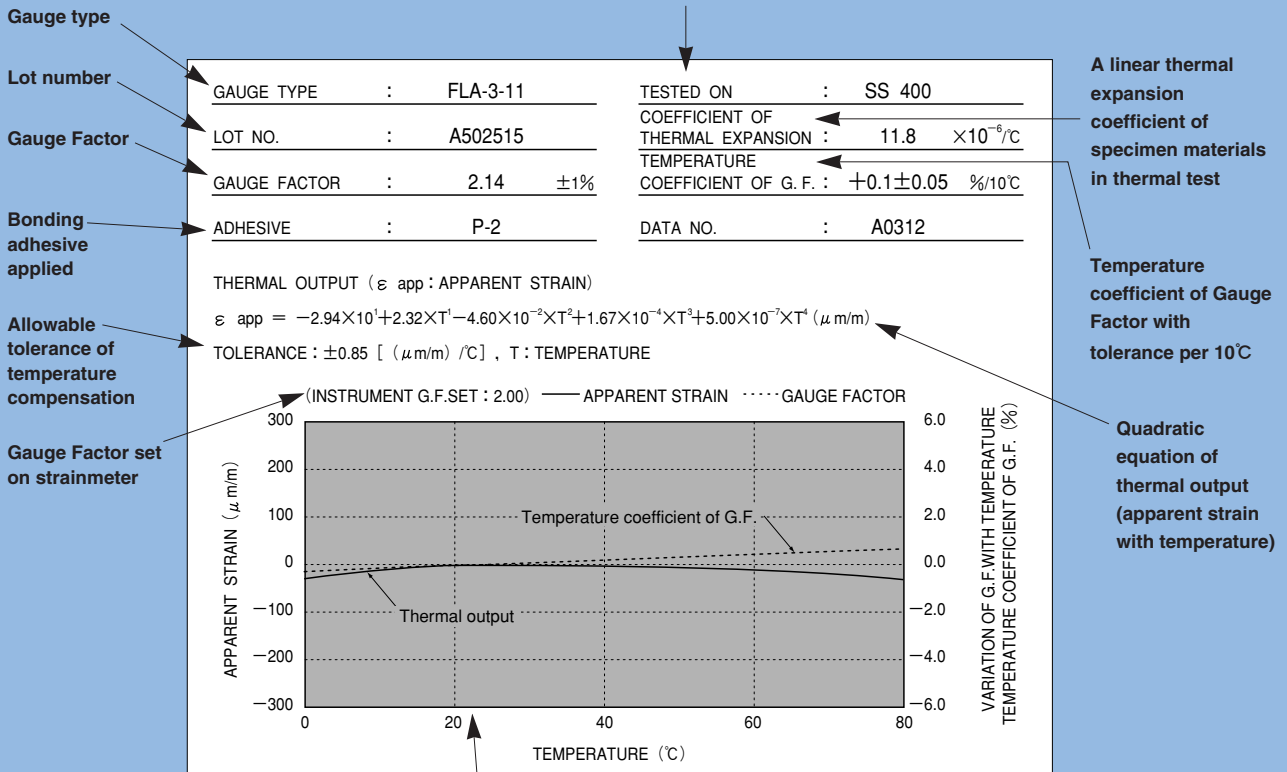
LEAD WIRES

Core number/diameter(or cross section area) Wiring procedure Length of leadwire

Above in column examples 10-core 0.12mm diameter, 3-wire leadwire of 5-meter long.

TML STRAIN GAUGE TEST DATA

Test specimen used in thermal output test



GAUGE FACTOR OF LEADWIRE-INTEGRATED STRAIN GAUGES

Gauge factor of leadwire-integrated given in the supplied TML STRAIN GAUGE TEST DATA is the strain gauge itself, but not corrected with attached leadwire. Refer to the data sheet in which Gauge Factor Correction due to Lead Wire attachment is given.