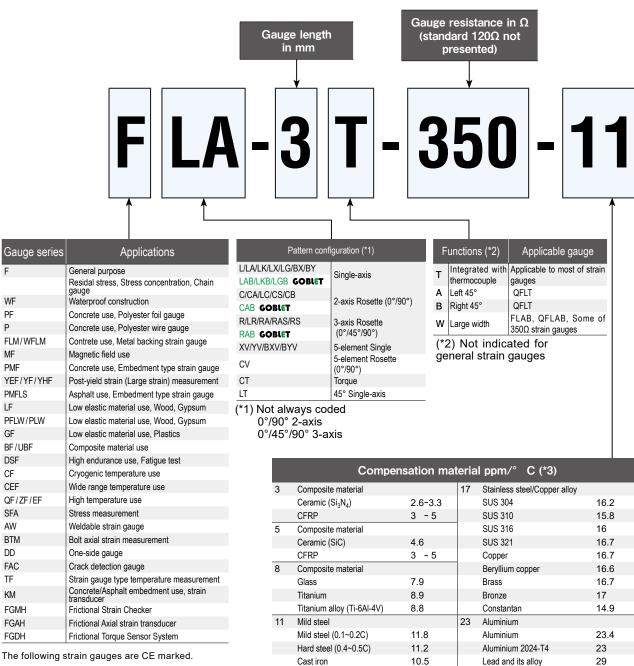
STRAIN GAUGE CODING SYSTEM



Hastellov-276

Inconel 600

Inconel 750

SUS 630 (17-4PH)

SUS 631 (17-7PH)

Monel

Concrete

For strain gauge without integral lead wire

- Strain gauge with "-F" appended to the type number

- Strain gauge indicated with "CE" mark in this catalog

> (*3) Indicated only for self-temperature-compensated strain gauges For other materials, contact TML or your local representative.

11 2

13.3

12.1

13.5

10.8

10.6

7~13

Gypsum

Polyimide

Plastics

Plastics

Acrylics ABS

Magnesium

Epoxy (Cast)

Magnesium alloy

Polyacetal (POM)

Polystyrene (PS)

Polycarbonate (PC)

28

50

70

25

27

70

74

80

66~70

60~80

20~30

45~65

F

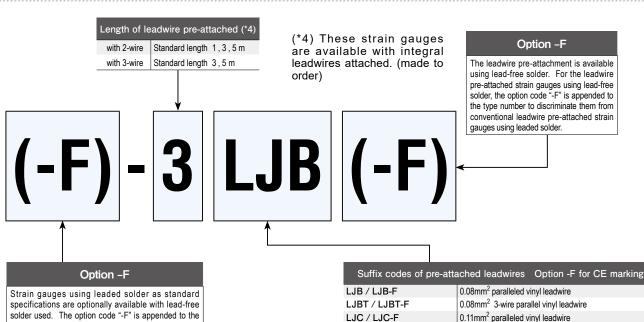
PF

Ρ

LF

TF

Strain Gauge



type number of lead-free solder used gauges to discriminate them from conventional strain gauges using leaded solder. The option code "-F" is omitted for strain gauges with CE marking such as GOBLET series.

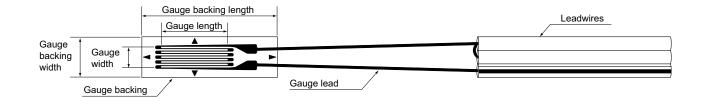
Color coding for test specimen

Most of our strain gauges are self-temperature-compensated. The backings of F, WF and CF series strain gauges are classified into three colors according to the objective material for measurement.

| Objective material for measurement | Coefficient of linear thermal expansion | Backing color | Type number (example) |
|------------------------------------|---|---------------|--------------------------|
| Mild steel | 11×10 ⁻⁶ /°C | Red | FLA-3-11 |
| Stainless steel Copper alloy | 17×10 ⁻⁶ /°C | Brown | FLA-3-17 |
| Aluminium | 23×10 ⁻⁶ /°C | Green | FLA-3-23 |

| Sum codes of pre-alla | | | |
|-------------------------|---|--|--|
| LJB / LJB-F | 0.08mm ² paralleled vinyl leadwire | | |
| LJBT / LJBT-F | 0.08mm ² 3-wire parallel vinyl leadwire | | |
| LJC / LJC-F | 0.11mm ² paralleled vinyl leadwire | | |
| LJCT / LJCT-F | 0.11mm ² 3-wire paralleled vinyl leadwire | | |
| LJD | 0.3mm ² paralleled vinyl leadwire | | |
| LJDT | 0.3mm ² 3-wire paralleled vinyl leadwire | | |
| LH | 0.02mm ² twisted vinyl leadwire | | |
| LHT | 0.02mm ² 3-wire twisted vinyl leadwire | | |
| LS | 3.2mm-dia. shielded vinyl leadwire | | |
| LTSA / LTSA-F | 3mm-dia. shielded 3-wire vinyl leadwire | | |
| LTSB / LTSB-F | 5mm-dia. shielded 3-wire vinyl leadwire | | |
| LQM / LQM-F | 0.08mm ² polypropylene 4-wire paralleled leadwire with modular plug | | |
| LXT / LXT-F | 3-wire parallel special vinyl leadwire | | |
| LJRA | 2-wire twisted cross-linked vinyl leadwire | | |
| LJRTA | 3-wire twisted cross-linked vinyl leadwire | | |
| LJQTA | 3-wire twisted cross-linked polyethylene leadwire | | |
| TLJBT / TLJBT-F | Temperature-integrated 3-wire paralleled vinyl leadwire | | |
| TLQ | Temperature-integrated 4-wire paralleled vinyl leadwire | | |
| 6FB 🗆 TLT / 6FB 🗆 TLT-F | Temperature-integrated 3-wire twisted fluorinated resin (FEP) single-core leadwire | | |
| LP / LP-F | 0.14mm/0.18mm polyurethane leadwire | | |
| LU / LU-F | 0.14mm/0.18mm polyester leadwire | | |
| LE / LE-F | 0.14mm/0.18mm polyeimide leadwire | | |
| 6FA 🛛 LT / 6FA 🗆 LT-F | 3-wire twisted fluorinated resin (FEP) leadwire | | |
| 6FAS - LT / 6FAS - LT-F | 3-wire twisted fluorinated resin (FEP) leadwire (Surface treatment (tetra-etching) is not required) | | |
| 6FB□LT/6FB□LT-F | 3-wire twisted fluorinated resin (FEP) single-core leadwire | | |
| 6FC 🛛 LT / 6FC 🗆 LT-F | 3-wire twisted fluorinated resin (FEP) leadwire | | |
| 6FD D LTS | 1.5mm-dia. 3-wire twisted fluorinated resin (FEP) leadwire with shield | | |
| 4FA□LT / 4FA□LT-F | 3-wire twisted fluorinated resin (PTFE) leadwire | | |
| 4FB□LT / 4FB□LT-F | 3-wire twisted fluorinated resin (PTFE) single-core leadwire | | |
| | | | |

For further information on combination use with strain gauges, refer to pages $39{\sim}40$.



Name of each part of strain gauge