

# HIGH TEMPERATURE STRAIN GAUGES series ZF

Operating temperature range



Temperature compensation range



Suffix code for temperature compensation materials  
-11: Mild steel (ferritic)

Applicable adhesives

NP-50B	-20 ~ +300°C
C-1	-20 ~ +200°C
CN	-20 ~ +120°C

## HIGH TEMPERATURE USE

Gauge pattern	Basic type	Gauge size		Backing		Resistance $\Omega$
		L	W	L	W	

L : length W : width (Unit:mm)

These strain gauges are designed for measurement in high temperature up to 300°C. It utilizes specially designed Ni-Cr alloy foil for the grid and polyimide resin for the gauge backing. Owing to the construction, the strain gauges are successfully used for measurement in high temperature.



Each package contains 10 gauges.

ZFLK-2-11	2	0.5	5.4	1.4	120
ZFLA-1-11	1	1.8	7.0	3.0	120
ZFLA-3-11	3	1.8	10.5	3.5	120
ZFLA-6-11	6	2.5	15.5	4.5	120
ZFLA-3-60-11	3	0.7	7.7	2.6	60
ZFLA-1-350-11	1	1.7	6.6	3.2	350
ZFLA-3-350-11	3	3.2	10.2	5.2	350
ZFLA-6-350-11	6	2.8	16.0	5.3	350

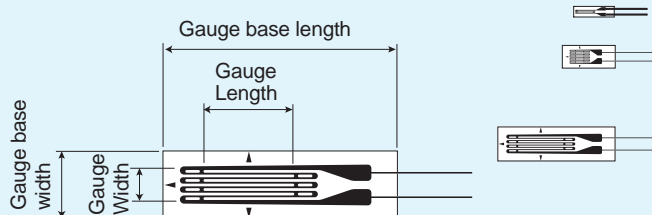
Each package contains 10 gauges.

Plane type						
ZFCA-1-350-11	1	1.7	8.5	8.5	350	
ZFCA-3-350-11	3	1.4	10.5	10.5	350	
Stacked type						
ZFCAL-1-11	1	1.1	$\phi$ 5.4		120	

Each package contains 10 gauges.

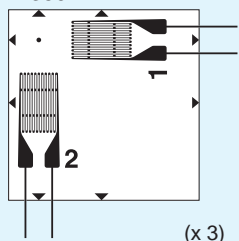
Plane type						
ZFRA-1-350-11	1	1.7	8.5	8.5	350	
ZFRA-3-350-11	3	1.4	10.5	10.5	350	
Stacked type						
ZFRAL-1-11	1	1.1	$\phi$ 5.4		120	

### Single element : ZFLA

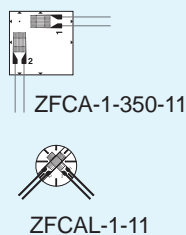


### 0°/90° 2-element Rosette

ZFCA-1-350-11

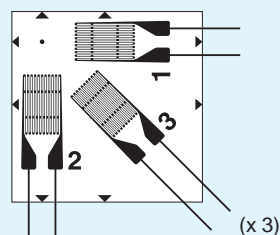


Plane : ZFCA  
Stacked : ZFCAL

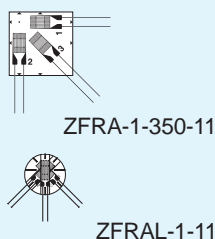


### 0°/45°/90° 3-element Rosette

ZFRA-1-350-11

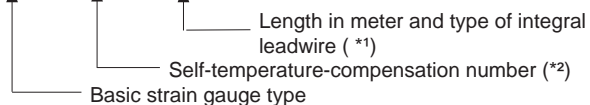


Plane : ZFRA  
Stacked : ZFRAL



Example of type number designation.

ZFLA-5 -11 -4FA-3L/-3LT (2-wire/3-wire)



\*1: Not mentioned for gauges without integral leadwire.

\*2: ZF-series gauges are available for self-temperature-compensation with -11 (Mild steel of 11ppm/°C)

For the following numbers, contact TML or your local representatives.

- 17: Stainless steel, Copper alloy (17ppm/°C)
- 23: Aluminium (23ppm/°C)

Refer to pages 19~20 for applicable integral leadwires.