



HIGH TEMPERATURE STRAIN GAUGES series ZF

Suffix code for temperature compensation materials
-11: Mild steel -17: Stainless steel -23: Aluminium

Backing colors are all the same with different materials For ordering, the above suffix code should be added to the basic gauge type.

Operating temperature range
-20°C  +300°C
Temperature compensation range
+10°C  +100°C



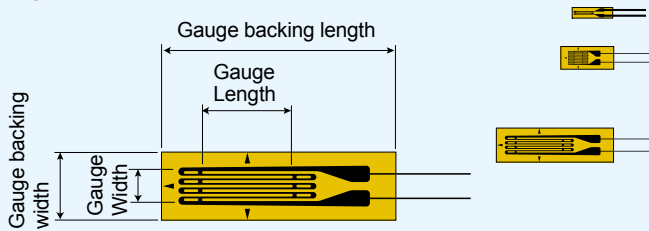
Applicable adhesives	NP-50B	-20 ~ +300°C
	C-1/EB-2	-20 ~ +200°C
	CN	-20 ~ +120°C

HIGH TEMPERATURE USE



Gauge pattern	Basic type	Gauge size L W	Backing L W	Resistance Ω
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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.

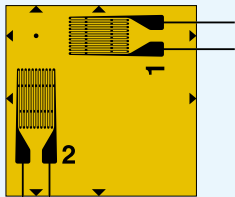
Single element : ZFLA



Each package contains 10 gauges.

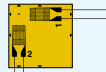
					
ZFLK-2-11	2	0.5	5.4	1.4	120
ZFLA-1-11	1	1.8	7	3	120
ZFLA-3-11	3	1.8	10.5	3.5	120
ZFLA-6-11	6	2.5	15.5	4.5	120
ZFLA-3-60-11	3	0.7	7.7	2.6	60
ZFLA-1-350-11	1	1.7	6.6	3.2	350
ZFLA-3-350-11	3	3.2	10.2	5.2	350
ZFLA-6-350-11	6	2.8	16	5.3	350

0°/90° 2-element Rosette



ZFCA-1-350-11 (x 3)

Plane : ZFCA Stacked : ZFCAL



ZFCA-1-350-11

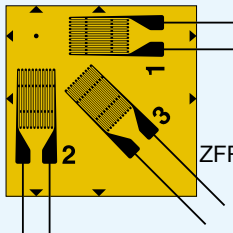


ZFCAL-1-11

Each package contains 10 gauges.

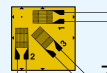
Plane type					
ZFCA-1-350-11	1	1.7	8.5	8.5	350
ZFCA-3-350-11	3	1.4	10.5	10.5	350
Stacked type					
ZFCAL-1-11	1	1.1	ϕ 5.4		120

0°/45°/90° 3-element Rosette



(x 3)

Plane : ZFRA Stacked : ZFRAL



ZFRA-1-350-11



ZFRAL-1-11

Each package contains 10 gauges.

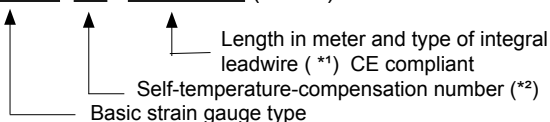
Plane type					
ZFRA-1-350-11	1	1.7	8.5	8.5	350
ZFRA-3-350-11	3	1.4	10.5	10.5	350
Stacked type					
ZFRAL-1-11	1	1.1	ϕ 5.4		120

Recommendable integral leadwire for ZF series

Application	Leadwires	Operating temperature (°C)	Leadwire code exemplified
High temperature	3-wire twisted FEP 6FA_LT-F (No Tetra-Etch required for surface) 3-wire twisted FEP 6FB_LT-F	-269 ~ +200	ZFLA-3-350-11-6FA3LT-F ZFLA-3-350-11-6FB3LT-F
	3-wire twisted PTFE 4FA_LT-F 3-wire twisted PTFE 4FB_LT-F	-269 ~ +260 For short term use, +300°C is available.	ZFLA-3-350-11-4FA3LT-F ZFLA-3-350-11-4FB3LT-F

Example of type number designation.

ZFLA-6 -11 4FA-3LT-F (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.

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