Operating temperature range -20~+300°C

Temperature compensation range

## High Temperature Strain Gauges ZF series $C \in$

-20~+300℃

-20~+200°C

-20~+120°C

Applicable adhesives

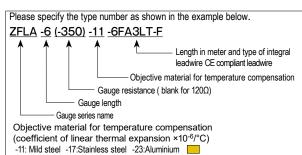
NP-50

CN

C-1/EB-2

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.

+10~+100℃



Note: The backing color of ZF series gauges are the same for every material for temperature compensation.

Gauge pattern		Туре	Gauge s Length	ize(mm) Width	Backing : Length	size(mm) Width	Resistance $\Omega$
●Single axis							
Backing length Gauge length t	Single axis	ZFLK-2	2	0.5	5.4	1.4	120
		ZFLA-1	1	1.8	7	3	120
auge vidth a v		ZFLA-3	3	1.8	10.5	3.5	120
		ZFLA-6	6	2.5	15.5	4.5	120
$0^{\circ}/90^{\circ}$ 2-axis Plane type		ZFLA-3-60	3	0.7	7.7	2.6	60
		ZFLA-1-350	1	1.7	6.6	3.2	350
2 ZFCA-1-350 Q(×3)		ZFLA-3-350	3	3.1	10.2	5.2	350
		ZFLA-6-350	6	2.8	16	5.3	350
	0°/90° 2-axis	ZFCA-1-350	1	1.7	8.5	8.5	350
	Plane type	ZFCA-3-350	3	1.4	10.5	10.5	350
●0° /45° /90° 3-axis Plane type	Stacked type	ZFCAL-1	1	1.1 Φ5.4		5.4	120
	0°/45°/90° 3-axis	ZFRA-1-350	1	1.7	8.5	8.5	350
	Plane type	ZFRA-3-350	3	1.4	10.5	10.5	350
	Stacked type	ZFRAL-1	1	1.1	Φ5.4		120
' ZFRA-1-350 Q (×3)							
Minimum order quantity is 10 strain gauges.							

## Dedicated leadwire recommended for ZF series strain gauges

We supply various leadwires dedicated to strain gauges so as to meet our customers' requirements. Please refer to page 32 to 40 for the details of combination of a strain gauge and a leadwire. For CE marked strain gauges, only the leadwires using lead-free solder are available.

## Type and designation of leadwires

Usage	Leadwire name	Operating temperature range of leadwire (°C )	Type number example
High temperature	3-wire twisted fluorinated resin (FEP) leadwire 6FA   LT-F	inated resin (FEP) leadwire 6FA □ LT-F -269~+200	
	3-wire twisted fluorinated resin (FEP) single-core leadwire $6FB \square LT$ -F	-209~+200	ZFLA-3-350-11-6FB3LT-F
	3-wire twisted fluorinated resin (PTFE) leadwire 4FA   LT-F	-269~+260	ZFLA-3-350-11-4FA3LT-F
	3-wire twisted fluorinated resin (PTFE) single-core leadwire 4FB $\hfill\square$ LT-F	For short term use, +300°C is available.	ZFLA-3-350-11-4FB3LT-F
	NB: shows the lead wire length in meter		

High Temperature