



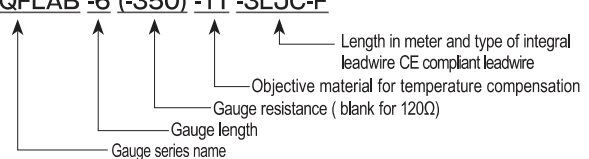
High Temperature Strain Gauges QF series


These are CE marked strain gauges (compliant to RoHS2 Directive) for high temperature use. They have joined to our well proven QF-series strain gauges with a new series name "GOBLET". These are foil strain gauges utilizing polyimide resin as the backing material. Measurement in high temperature is easily possible by using our room-temperature-curing adhesive NP-50B for bonding.

Operating temperature range -30~+200°C	Applicable adhesives NP-50B -30~+200°C
Temperature compensation range +10~+100°C	C-1/EB-2 -30~+200°C
	CN -30~+120°C

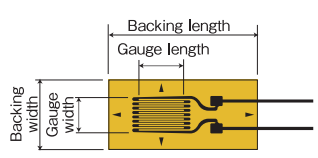
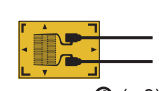
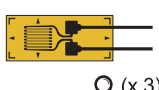
Please specify the type number as shown in the example below.

QFLAB -6 (-350) -11 -3LJC-F



Objective material for temperature compensation (coefficient of linear thermal expansion $\times 10^{-6}/^{\circ}\text{C}$)
 -11: Mild steel -17:Stainless steel -23:Aluminium -28:Magnesium 

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

Gauge pattern	Type	Gauge size(mm)		Backing size(mm)		Resistance Ω	
		Length	Width	Length	Width		
 <p>● Single axis</p> <p>QFLGB-02  Q(x 3)</p> <p>QFLAB-1  Q(x 3)</p> <p>● 0° /90° 2-axis Stacked type</p> <p>● 0° /45° /90° 3-axis Stacked type</p>	General purpose	QFLGB-02	0.2	1.4	3.5	2.5	120
	QFLAB-03	0.3	1.4	3	2	120	
	QFLAB-1	1	1.1	4.7	2	120	
	QFLAB-2	2	1.5	6.5	3	120	
	QFLAB-3	3	1.7	7.7	3.5	120	
	QFLAB-5	5	1.5	10	3	120	
	QFLAB-6	6	2.2	11	4.3	120	
	QFLAB-30	30	2	35	5	120	
	FLK type with narrow backing	QFLKB-1	1	0.7	4.5	1.4	120
	QFLKB-2	2	0.9	5.5	1.5	120	
	for magnesium alloy	QFLKB-2-28	2	0.9	5.5	1.5	120
	gauge resistance 350 Ω	QFLAB-1-350	1	1.6	4.5	3	350
		QFLAB-1W-350	1	2	4.7	3.6	350
		QFLAB-2-350	2	1.9	6	3.5	350
		QFLAB-3-350	3	1.6	7.2	3	350
QFLAB-3W-350		3	3.2	8.5	5	350	
QFLAB-6-350		6	2.6	10.8	4.5	350	
High gauge resistance 1000 Ω	QFLAB-6-1000	6	4.6	11	7	1000	
	QFCAB-1	1	0.7	ϕ 4.5		120	
QFCAB-1	QFCAB-3	3	1.7	ϕ 11		120	
	QFRAB-1	1	0.7	ϕ 4.5		120	
QFRAB-1	QFRAB-3	3	1.7	ϕ 11		120	

Minimum order quantity is 10 strain gauges.

Dedicated leadwire recommended for QF series strain gauges (GOBLET) (made to order)

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 GOBLET series 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
General purpose (without temperature change)	Parallel vinyl leadwire LJC-F	-20 ~ +80	QFLAB-1-11-3LJC-F
General purpose	3-wire parallel vinyl leadwire LJCT-F	-20 ~ +80	QFLAB-1-11-3LJCT-F
High temperature	3-wire twisted FEP leadwire 6FA \square LT-F	-269 ~ +200	QFLAB-1-11-6FA3LT-F
	3-wire twisted FEP single-core leadwire 6FB \square LT-F		QFLAB-1-11-6FB3LT-F

NB: \square shows the lead wire length in meter