



# Series "BF"


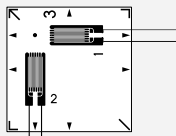
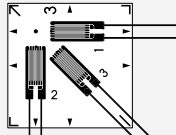
## Composite Strain Gauge



Compatible adhesive & Operational temperature  
 CN : - 20~ + 120°C      NP-50: - 20~ + 200°C  
 EB-2: - 20~ + 150°C

Operational temperature -20~+200°C  
 Temperature compensation range +10~+80°C

### COMPOSITE MATERIALS USE

Gauge pattern	Type	Gauge size		Backing		Resistance in Ω		
		L	W	L	W			
<p>This gauge is designed for measurement on composite materials. It has a specially designed grid configuration to reduce the tightening effect of the gauge to the specimen. As the temperature compensation is available for material with thermal expansion coefficient of 3, 5 or 8ppm/°C, this series is recommendable for ceramic, carbon, and composite materials.</p> <ul style="list-style-type: none"> <li>•Single-element</li> </ul>  <p><b>BFLA-2-3</b></p> <ul style="list-style-type: none"> <li>•90° 2-element Cross Plane type</li> </ul>  <p><b>BFCA-2-3</b></p> <ul style="list-style-type: none"> <li>•45° / 90° 3-element Rosette Plane type</li> </ul>  <p><b>BFRA-2-3</b></p>		L : length    W : width (Unit : mm)						
	Single-element	BFLA-2	-3	2	0.9	7.6	2.5	120
		BFLA-5	-5	5	1.5	12.3	3.3	120
	90° 2-element Cross Plane type	BFCA-2	-3	2	1.3	8	8	120
		BFCA-5	-5	5	1.5	11.5	11.5	120
	45° / 90° 3-element Rosette Plane type	BFRA-2	-3	2	1.3	8	8	120
		BFRA-5	-5	5	1.5	11.5	11.5	120

#### Info

Composite materials such as GFRP (glass fibers), CFRP (carbon fibers), or AFRP (aramid fibers) for reinforced plastics have different elastic modulus and linear thermal expansion coefficient depending on their fiber orientation. For strain measurement, consideration of materials property and fiber orientation should be taken.

Each package contains 10 gauges.  
 Leadwire-integral service is available on request.

LEADERS IN SENSORS & HEAVY DUTY JOYSTICKS

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