



Series "F"

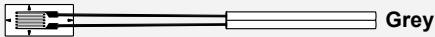
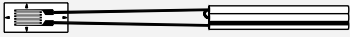
Foil Strain Gauge, Leadwire - integrated



Compatible adhesive & Operational temperature
 CN: - 20~ + 80°C
 P-2: - 20~ + 80°C EB-2: - 20~ + 80°C

Operational temperature -20~+80°C
 Temperature compensation range +10~+80°C
 Quarter bridge with 3-wire system is usable to avoid an unexpected effect of resistance change with temperature.

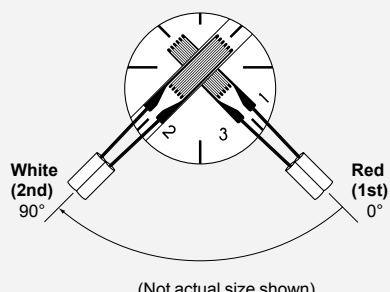
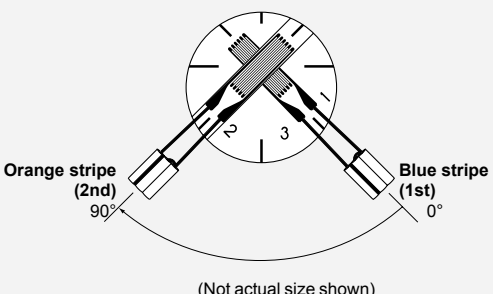
GENERAL USE

Gauge pattern	Type	Gauge size		Backing		Resistance in Ω	
		L	W	L	W		
<p>This gauge has a pre-attached vinyl lead wire to F series strain gauge. Works for lead wire connection such as strain gauge terminal installation and lead wire soldering are not required. It saves much time and labor.</p> <p>•Single-element (G.F. 2.1 approx.)</p> <p>0.11mm² integral vinyl leadwire Total leadwire resistance per meter : 0.32Ω</p> <p>2-wire system</p>  <p>(Not actual size shown)</p> <p>2-wire system Single-element</p> <p>3-wire</p>  <p>(Not actual size shown)</p> <p>Blue stripe (independent)</p> <p>3-wire system Single-element</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">F L A - 1 - 1 1 - 3 L</p> <p>Length of integral leadwire (m) └──┘</p> <p>Code of integral leadwire └──┘</p> </div> <p>Minimum order is 10 gauges or more. Other gauge is also available for leadwire-integrated service, contact Altheris bv.</p>		L : length W : width (Unit : mm)					
	FLA-1-11 -17 -23		1	1.3	5.0	2.5	120
	FLA-2-11 -17 -23	-1L -3L	2	1.5	6.5	3.0	120
	FLA-3-11 -17 -23	-5L	3	1.7	8.8	3.5	120
	FLA-5-11 -17 -23		5	1.5	10.0	3.0	120
	FLA-6-11 -17 -23		6	2.2	12.5	4.3	120
	FLA-1-11 -17 -23		1	1.3	5.0	2.5	120
	FLA-2-11 -17 -23	-3LT	2	1.5	6.5	3.0	120
	FLA-3-11 -17 -23	-5LT	3	1.7	8.8	3.5	120
	FLA-5-11 -17 -23		5	1.5	10.0	3.0	120
	FLA-6-11 -17 -23		6	2.2	12.5	4.3	120



Quarter bridge with 3-wire system is usable to avoid an unexpected effect of resistance change with temperature.

GENERAL USE

Gauge pattern	Type	Gauge size		Backing		Resistance in Ω
		L	W	L	W	
		L : length W : width (Unit : mm)				
<p>●90°2-element Cross (G.F. 2.1 approx.)</p> <p>Stacked type 0.08mm² integral vinyl leadwire Total leadwire resistance per meter : 0.44Ω</p> <p>2-wire system</p>  <p>(Not actual size shown)</p>	<p>2-wire system 90° 2-element Cross Stacked type</p>	<p>FCA-1-11 -17 -23</p> <p>FCA-2-11 -17 -23</p> <p>FCA-3-11 -17 -23</p> <p>FCA-5-11 -17 -23</p> <p>FCA-6-11 -17 -23</p> <p>FCA-10-11 -17 -23</p>	<p>1 0.7</p> <p>2 0.9</p> <p>3 1.7</p> <p>5 1.9</p> <p>6 2.4</p> <p>10 2.5</p>	<p>ϕ4.5</p> <p>ϕ7.0</p> <p>ϕ11.0</p> <p>ϕ12.0</p> <p>ϕ14.0</p> <p>ϕ17.0</p>	<p>120</p> <p>120</p> <p>120</p> <p>120</p> <p>120</p> <p>120</p>	
<p>3-wire</p>  <p>(Not actual size shown)</p>	<p>3-wire system 90° 2-element Cross Stacked type</p>	<p>FCA-1-11 -17 -23</p> <p>FCA-2-11 -17 -23</p> <p>FCA-3-11 -17 -23</p> <p>FCA-5-11 -17 -23</p> <p>FCA-6-11 -17 -23</p> <p>FCA-10-11 -17 -23</p>	<p>1 0.7</p> <p>2 0.9</p> <p>3 1.7</p> <p>5 1.9</p> <p>6 2.4</p> <p>10 2.5</p>	<p>ϕ4.5</p> <p>ϕ7.0</p> <p>ϕ11.0</p> <p>ϕ12.0</p> <p>ϕ14.0</p> <p>ϕ17.0</p>	<p>120</p> <p>120</p> <p>120</p> <p>120</p> <p>120</p>	

Minimum order is 10 gauges or more.

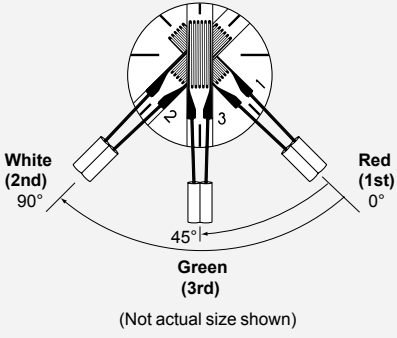
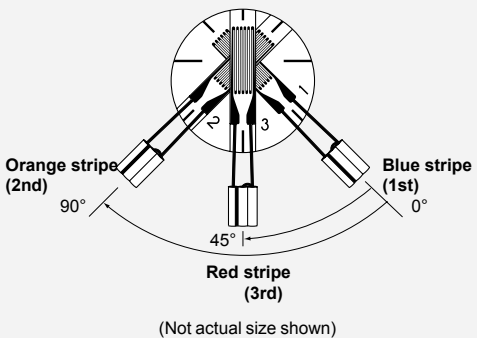


Compatible adhesive & Operational temperature
 CN: - 20~ + 80°C
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Operational temperature -20~+80°C
 Temperature compensation range +10~+80°C

Quarter bridge with 3-wire system is usable to avoid an unexpected effect of resistance change with temperature.

GENERAL USE

Gauge pattern	Type	Gauge size		Backing		Resistance in Ω	
		L	W	L	W		
<p>●45°/90°3-element Rosette (G.F. 2.1 approx.)</p> <p>Stacked type 0.08mm² integral vinyl leadwire Total leadwire resistance per meter 0.44Ω</p>							
<p>2-wire system</p>							
	<p>2-wire system 45° /90° 3-element Rosette Stacked type</p>	FRA-1-11 -17 -23	1	0.7	φ4.5	120	
		FRA-2-11 -17 -23	2	0.9	φ7.0	120	
		FRA-3-11 -17 -23	-1L	3	1.7	φ11.0	120
		FRA-5-11 -17 -23	-3L	5	1.9	φ12.0	120
		FRA-6-11 -17 -23	-5L	6	2.4	φ14.0	120
		FRA-10-11 -17 -23		10	2.5	φ17.0	120
<p>3-wire</p>							
	<p>3-wire system 45° /90° 3-element Rosette Stacked type</p>	FRA-1-11 -17 -23	1	0.7	φ4.5	120	
		FRA-2-11 -17 -23	2	0.9	φ7.0	120	
		FRA-3-11 -17 -23	-3LT	3	1.7	φ11.0	120
		FRA-5-11 -17 -23	-5LT	5	1.9	φ12.0	120
		FRA-6-11 -17 -23		6	2.4	φ14.0	120
		FRA-10-11 -17 -23		10	2.5	φ17.0	120
<p>Minimum order is 10 gauges or more.</p>							

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