

# Leadwire-integrated



# series "F"

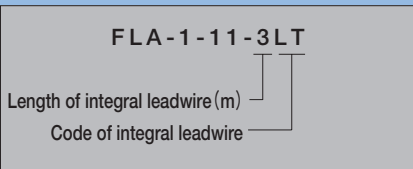


Compatible adhesive & Operational temperature  
 CN : -20~+80°C  
 P-2 : -20~+80°C    EB-2 : -20~+80°C

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>0.11mm<sup>2</sup> integral vinyl leadwire                      Total leadwire resistance per meter : 0.32Ω</p> <p>2-wire system</p>  <p>(Not actual size shown)</p>	2-wire system Single-element	L : length    W : width (Unit : mm)						
<p>3-wire system</p>  <p>(Not actual size shown)</p>	3-wire system Single-element	FLA-1-11	-1L	1	1.3	5.0	2.5	120
		-17						
		-23						
		FLA-2-11	-3L	2	1.5	6.5	3.0	120
		-17						
		-23						
		FLA-3-11	-5L	3	1.7	8.8	3.5	120
		-17						
		-23						
		FLA-5-11	-1L	5	1.5	10.0	3.0	120
-17								
-23								
FLA-6-11	-3LT	6	2.2	12.5	4.3	120		
-17								
-23								
FLA-1-11	-5LT	1	1.3	5.0	2.5	120		
-17								
-23								
FLA-2-11	-3LT	2	1.5	6.5	3.0	120		
-17								
-23								
FLA-3-11	-5LT	3	1.7	8.8	3.5	120		
-17								
-23								
FLA-5-11	-1L	5	1.5	10.0	3.0	120		
-17								
-23								
FLA-6-11	-3LT	6	2.2	12.5	4.3	120		
-17								
-23								

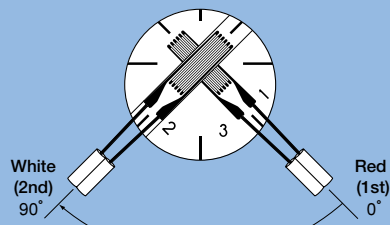
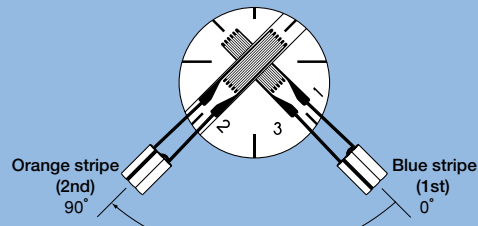


Minimum order is 10 gauges or more.  
 Other gauge is also available for leadwire-integrated service, contact TML or your local representatives.



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 0.08mm<sup>2</sup> integral vinyl leadwire Total leadwire resistance per meter : 0.44 Ω</p> <p>2-wire system</p>  <p>(Not actual size shown)</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>	-1L	-3L	-5L		
<p>3-wire system</p>  <p>(Not actual size shown)</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>	-3LT	-5LT			
<p>Minimum order is 10 gauges or more.</p>						

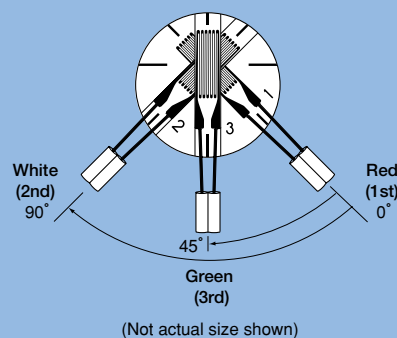
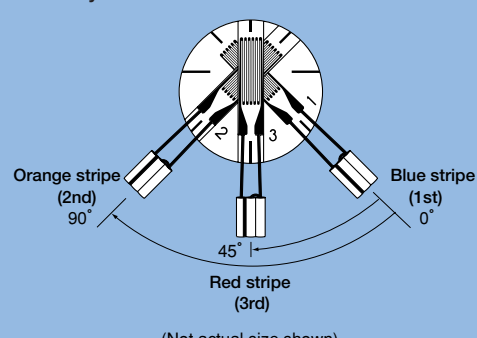


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Operational temperature -20~+80°C  
 Temperature compensation range +10~+80°C

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**GENERAL USE**

Gauge pattern	Type	Gauge size		Backing		Resistance in Ω	
		L	W	L	W		
<p><b>●45°/90° 3-element Rosette (G.F. 2.1 approx.)</b></p> <p>Stacked type                      0.08mm<sup>2</sup> integral vinyl leadwire                      Total leadwire resistance per meter : 0.44 Ω</p>							
<p><b>2-wire system</b></p>  <p>(Not actual size shown)</p>	<p>2-wire system 45°/90° 3-element Rosette Stacked type</p>	FRA-1-11 -17 -23	1	0.7	φ 4.5	120	
		FRA-2-11 -17 -23	2	0.9	φ 7.0	120	
		FRA-3-11 -17 -23	-1L	3	1.7	φ 11.0	120
		FRA-5-11 -17 -23	-3L	5	1.9	φ 12.0	120
		FRA-6-11 -17 -23	-5L	6	2.4	φ 14.0	120
		FRA-10-11 -17 -23		10	2.5	φ 17.0	120
		FRA-1-11 -17 -23		1	0.7	φ 4.5	120
		FRA-2-11 -17 -23		2	0.9	φ 7.0	120
		FRA-3-11 -17 -23	-3LT	3	1.7	φ 11.0	120
		FRA-5-11 -17 -23	-5LT	5	1.9	φ 12.0	120
FRA-6-11 -17 -23		6	2.4	φ 14.0	120		
FRA-10-11 -17 -23		10	2.5	φ 17.0	120		
<p><b>3-wire system</b></p>  <p>(Not actual size shown)</p>	<p>3-wire system 45°/90° 3-element Rosette Stacked type</p>	FRA-1-11 -17 -23	1	0.7	φ 4.5	120	
		FRA-2-11 -17 -23	2	0.9	φ 7.0	120	
		FRA-3-11 -17 -23	-3LT	3	1.7	φ 11.0	120
		FRA-5-11 -17 -23	-5LT	5	1.9	φ 12.0	120
		FRA-6-11 -17 -23		6	2.4	φ 14.0	120
		FRA-10-11 -17 -23		10	2.5	φ 17.0	120
		<p>Minimum order is 10 gauges or more.</p>					