

FOIL STRAIN GAUGE













series "UF"



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

Operational temperature -20~+150°C
 Temperature compensation range +10~+100°C

GENERAL USE

Gauge pattern	Type	Gauge size		Backing		Resistance in Ω	
		L	W	L	W		
<p>The backing of this gauge is made of polyimide-amide resin, which enables the gauge to be used in 150°C maximum. The backing is thin and it is easy to bond the gauge even on a curved surface without deterioration of the performance. The backing is color coded for distinction of object specimen material for self temperature compensation as same as F series.</p>							
<p>●Single-element (G.F. 2.1 approx.)</p>							
 UFLG-02 (×3)	Single-element	UFLG-02-11 -17 -23	0.2	1.4	3.5	2.5	120
 UFLA-03 (×3)		UFLA-03-11 -17 -23	0.3	1.4	3.0	2.0	120
 UFLA-1 (×3)		UFLA-1-11 -17 -23	1	1.3	5.0	2.5	120
 UFLA-2 (×3)		UFLA-2-11 -17 -23	2	1.5	6.5	3.0	120
 UFLK-1 (×3)		UFLK-1-11 -17 -23	1	0.7	4.5	1.4	120
 UFLK-2 (×3)		UFLK-2-11 -17 -23	2	0.9	5.5	1.5	120
<p>●90° 2-element Cross (G.F. 2.1 approx.) Stacked type</p>							
 UFCA-1 (×3)	90° 2-element Cross, Stacked type	UFCA-1-11 -17 -23	1	0.7	φ 4.5		120
 UFCA-2 (×3)		UFCA-2-11 -17 -23	2	0.9	φ 7.0		120
 UFCA-5 (×3)		UFCA-5-11 -17 -23	5	1.9	φ 12.0		120
<p>●45°/90° 3-element Rosette (G.F. 2.1 approx.) Stacked type</p>							
 UFRA-1 (×3)	45°/90° 3-element Rosette, Stacked type	UFRA-1-11 -17 -23	1	0.7	φ 4.5		120
 UFRA-2 (×3)		UFRA-2-11 -17 -23	2	0.9	φ 7.0		120
 UFRA-5 (×3)		UFRA-5-11 -17 -23	5	1.9	φ 12.0		120

Each package contains 10 gauges.




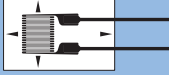
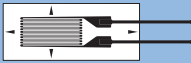




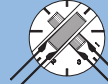
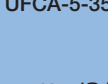


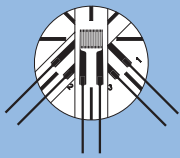

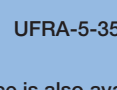
FOIL STRAIN GAUGE series "UF"



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

Operational temperature -20~+150°C
 Temperature compensation range +10~+100°C

GENERAL USE

Gauge pattern	Type	Gauge size		Backing		Resistance in Ω	
		L	W	L	W		
L : length W : width (Unit : mm)							
<p>●Single-element (G.F. 2.1 approx.)</p>  <p>UFLA-1-350</p>  <p>UFLA-3-350</p>  <p>UFLA-5-350</p>	<p>High gauge resistance Single-element</p>	UFLA-1-350-11 -17 -23	1	1.6	4.6	3.0	350
 <p>(X3)</p>		UFLA-2-350-11 -17 -23	2	1.9	6.1	3.5	350
 <p>(X3)</p>		UFLA-3-350-11 -17 -23	3	1.6	7.2	3.0	350
 <p>(X3)</p>		UFLA-5-350-11 -17 -23	5	1.8	9.4	3.8	350
<p>●90° 2-element Cross (G.F. 2.1 approx.) Stacked type</p>  <p>UFCA-1-350</p>  <p>UFCA-2-350</p>	<p>High gauge resistance, 90° 2-element Cross, Stacked type</p>	UFCA-1-350-11 -17 -23	1	1.6	ϕ 8.0		350
 <p>(X3)</p>		UFCA-2-350-11 -17 -23	2	1.9	ϕ 9.5		350
 <p>(X3)</p>		UFCA-3-350-11 -17 -23	3	2.0	ϕ 10.0		350
 <p>(X3)</p>		UFCA-5-350-11 -17 -23	5	1.8	ϕ 10.0		350
<p>●45°/90° 3-element Rosette (G.F. 2.1 approx.) Stacked type</p>  <p>UFRA-1-350</p>  <p>UFRA-2-350</p>	<p>High gauge resistance, 45°/90° 3-element Rosette, Stacked type</p>	UFRA-1-350-11 -17 -23	1	1.6	ϕ 8.0		350
 <p>(X3)</p>		UFRA-2-350-11 -17 -23	2	1.9	ϕ 9.5		350
 <p>(X3)</p>		UFRA-3-350-11 -17 -23	3	2.0	ϕ 10.0		350
 <p>(X3)</p>		UFRA-5-350-11 -17 -23	5	1.8	ϕ 10.0		350



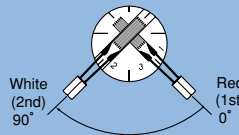
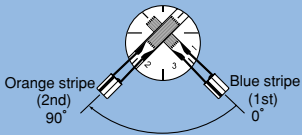
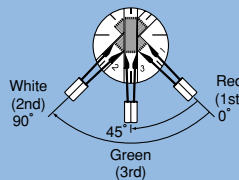
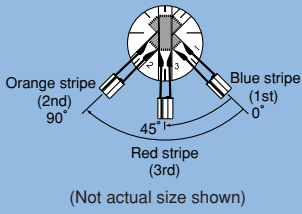
Leadwire-integral service is also available, contact TML.
 Minimum order is 10 gauges or more.



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

Operational temperature -20~+150°C
 Temperature compensation range +10~+100°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 UF 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. When operating temperature of strain gauge exceeds 80°C, fluorinated resin sheathed extension wire should be ordered. (UF series utilizes polyimide gauge lead.)</p> <p>●Single-element (G.F. 2.1 approx.) 0.08mm² integral vinyl leadwire Total leadwire resistance per meter : 0.44 Ω</p> <p>2-wire system  Red</p> <p>3-wire system  Blue stripe</p> <p>●90° 2-element Cross (G.F. 2.1 approx.) Stacked type 0.08mm² integral vinyl leadwire Total leadwire resistance per meter : 0.44 Ω</p> <p>2-wire system  White (2nd) 90° Red (1st) 0°</p> <p>Stacked type 3-wire system  Orange stripe (2nd) 90° Blue stripe (1st) 0°</p> <p>●45°/90° 3-element Rosette (G.F. 2.1 approx.) Stacked type 2-wire system  White (2nd) 90° Red (1st) 0° Green (3rd) 45°</p> <p>Stacked type 3-wire system  Orange stripe (2nd) 90° Blue stripe (1st) 0° Red stripe (3rd) 45° (Not actual size shown)</p> <p>Standard leadwire is vinyl leadwire and is available -20~+80°C.</p> <p>Minimum order is 10 gauges or more. For UFLK/UFLG gauges, leadwire-integral service is also available, contact TML.</p>	<p>L : length W : width (Unit : mm)</p>	<p>UFLA-1-11 -17 -1L -23</p> <p>UFLA-2-11 -17 -3L -23</p> <p>UFLA-5-11 -17 -5L -23</p> <p>UFLA-1-11 -17 -3LT -23</p> <p>UFLA-2-11 -17 -5LT -23</p> <p>UFLA-5-11 -17 -5LT -23</p> <p>UFCA-1-11 -17 -1L -23</p> <p>UFCA-2-11 -17 -3L -23</p> <p>UFCA-5-11 -17 -5L -23</p> <p>UFCA-1-11 -17 -3LT -23</p> <p>UFCA-2-11 -17 -5LT -23</p> <p>UFCA-5-11 -17 -5LT -23</p> <p>UFRA-1-11 -17 -1L -23</p> <p>UFRA-2-11 -17 -3L -23</p> <p>UFRA-5-11 -17 -5L -23</p> <p>UFRA-1-11 -17 -3LT -23</p> <p>UFRA-2-11 -17 -5LT -23</p> <p>UFRA-5-11 -17 -5LT -23</p>	<p>1 1.3 5.0 2.5 120</p> <p>2 1.5 6.5 3.0 120</p> <p>5 1.5 10.0 3.0 120</p> <p>1 1.3 5.0 2.5 120</p> <p>2 1.5 6.5 3.0 120</p> <p>5 1.5 10.0 3.0 120</p> <p>1 0.7 φ 4.5 120</p> <p>2 0.9 φ 7.0 120</p> <p>5 1.9 φ 12.0 120</p> <p>1 0.7 φ 4.5 120</p> <p>2 0.9 φ 7.0 120</p> <p>5 1.9 φ 12.0 120</p> <p>1 0.7 φ 4.5 120</p> <p>2 0.9 φ 7.0 120</p> <p>5 1.9 φ 12.0 120</p> <p>1 0.7 φ 4.5 120</p> <p>2 0.9 φ 7.0 120</p> <p>5 1.9 φ 12.0 120</p>			