


FOIL STRAIN GAUGES series UF

Suffix code for temperature compensation materials
 -11: Mild steel (ferritic) -17: Stainless steel -23: Aluminium


For ordering, the above suffix code should be specified after basic gauge type.

Operating temperature range
 -20°C  +150°C

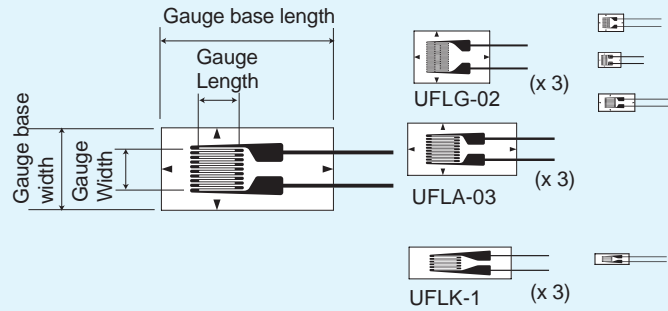
Temperature compensation range
 +10°C  +100°C

Applicable adhesives	CN	-20 ~ +120°C
	NP-50B	-20 ~ +150°C
	EB-2	-20 ~ +150°C

GENERAL PURPOSE

Gauge pattern	Basic type	Gauge size		Backing		Resistance Ω
		L	W	L	W	
These strain gauges utilize Cu-Ni alloy foils for the grid and polyimide-amide resin for the backing. It enables the strain gauges to be used in 150°C at the maximum. The backing features excellent flexibility, thus allowing easy adhesion even on a curved surface and providing excellent stability in thermal characteristics of the strain gauges. The backing is color-coded to identify the objective material for self-temperature-compensation in the same manner as the F series.						
L : length W : width (Unit:mm)						
						

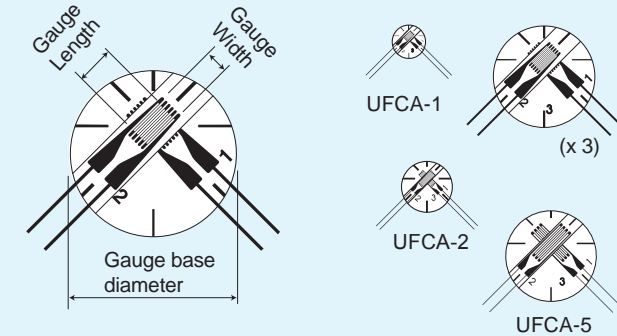
Single element : UFLG/UFLA/UFLK



Each package contains 10 gauges.

UFLG-02	0.2	1.4	3.5	2.5	120
UFLA-03	0.3	1.4	3.0	2.0	120
UFLA-1	1	1.3	5.0	2.5	120
UFLA-2	2	1.5	6.5	3.0	120
UFLA-5	5	1.5	10.0	3.0	120
UFLK-1	1	0.7	4.5	1.4	120
UFLK-2	2	0.9	5.5	1.5	120

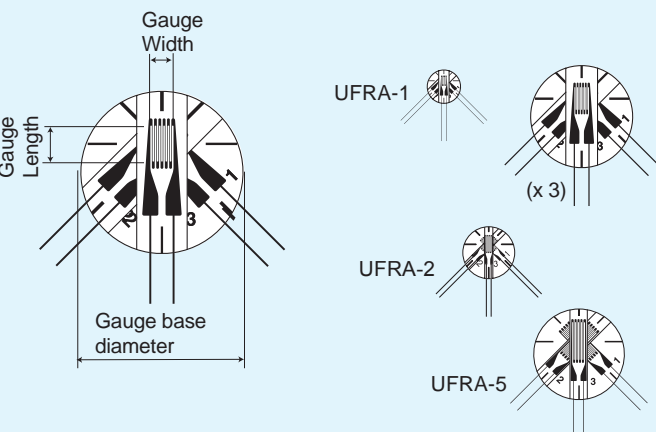
0°/90° 2-element Rosette stacked: UFCA



Each package contains 10 gauges.

UFCA-1	1	0.7	ϕ 4.5	120
UFCA-2	2	0.9	ϕ 7.0	120
UFCA-5	5	1.9	ϕ 12.0	120


0°/45°/90° 3-element Rosette stacked: UFRA




Each package contains 10 gauges.

UFRA-1	1	0.7	ϕ 4.5	120
UFRA-2	2	0.9	ϕ 7.0	120
UFRA-5	5	1.9	ϕ 12.0	120

FOIL STRAIN GAUGES series UF 350Ω

Operating temperature range
 -20°C  +150°C


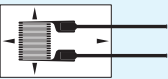

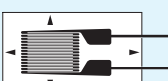





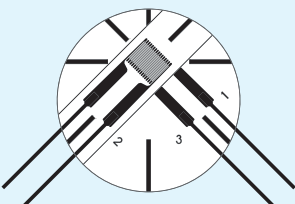
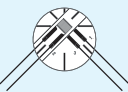
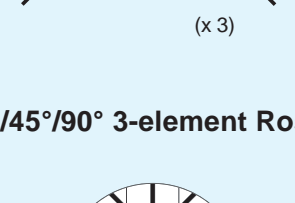
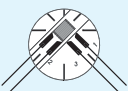
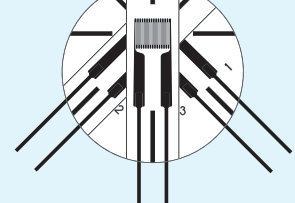

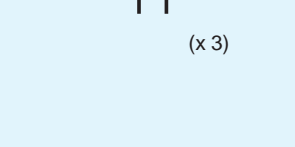
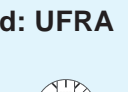
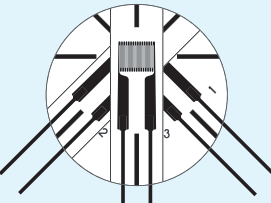
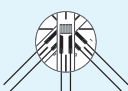
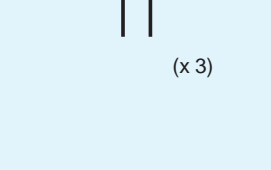
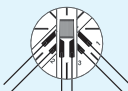
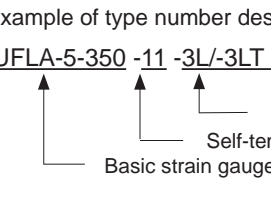


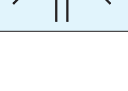
Temperature compensation range
 +10°C  +100°C

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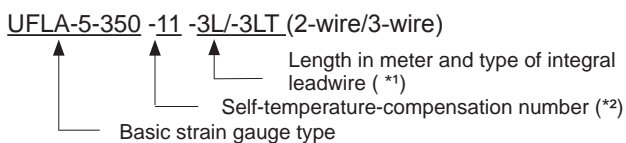
Applicable adhesives	CN	-20 ~ +120°C
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GENERAL PURPOSE

Gauge pattern	Basic type	Gauge size		Backing		Resistance Ω
		L	W	L	W	
L : length W : width (Unit:mm)						
						
Each package contains 10 gauges.						
Single element						
 (x 3)	UFLA-1-350		1	1.6	4.6 3.0	350
 (x 3)	UFLA-2-350 ^{*3}		2	1.9	6.1 3.5	350
 (x 3)	UFLA-3-350		3	1.6	7.2 3.0	350
 (x 3)	UFLA-5-350 ^{*3}		5	1.8	9.4 3.8	350
Each package contains 10 gauges.						
0°/90° 2-element Rosette stacked: UFCA						
 (x 3)	UFCA-1-350		1	1.6	φ 8.0	350
 (x 3)	UFCA-2-350 ^{*3}		2	1.9	φ 9.5	350
 (x 3)	UFCA-3-350		3	2.0	φ 10.0	350
 (x 3)	UFCA-5-350 ^{*3}		5	1.8	φ 10.0	350
Each package contains 10 gauges.						
0°/45°/90° 3-element Rosette stacked: UFRA						
 (x 3)	UFRA-1-350		1	1.6	φ 8.0	350
 (x 3)	UFRA-2-350 ^{*3}		2	1.9	φ 9.5	350
 (x 3)	UFRA-3-350		3	2.0	φ 10.0	350
 (x 3)	UFRA-5-350 ^{*3}		5	1.8	φ 10.0	350

Refer to pages 19~20 for applicable integral leadwires.

Example of type number designation.



*1: Not mentioned for gauges without integral leadwire.

*2: Following numbers are available for UF-series gauges

- 11: Mild steel (11ppm/°C)
- 17: Stainless steel, Copper alloy (17ppm/°C)
- 23: Aluminium (23ppm/°C)
- 3 : Composite (3ppm/°C) ^{*3}
- 5 : Composite (5ppm/°C) ^{*3}
- 8 : Composite (8ppm/°C) ^{*3}

^{*3} Available only for gauges with this marks.