WATERPROOF STRAIN GAUGES series WF

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.

M metal

Operating temperature range
0°C +80°C

Temperature compensation range
+10°C +80°C

Applicable adhesives

CN	0 ~ +80ºC
P-2	0 ~ +80ºC
EB-2	0 ~ +80ºC

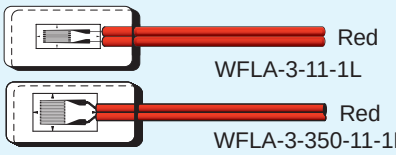
WATERPROOF STRAIN GAUGES

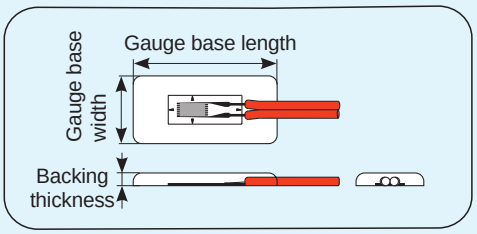
These gauges eliminate the need for a moisture-proofing coating, which is sometimes troublesome in a field test. They have an integral vinyl leadwire, and whole area of the strain gauges and the leadwire junction are coated with epoxy resin. The coating is transparent and flexible, so the positioning and bonding works are very easy. By merely bonding the gauges with CN or P-2 adhesive, outdoor or underwater measurement for a short-term becomes possible. These gauges are also effective in eliminating the primary coating in case of applying a multi-layer coating.

Single element : WFLA

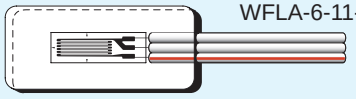
0.08mm² integral vinyl leadwire
Total leadwire resistance per meter : 0.44Ω

2-wire system



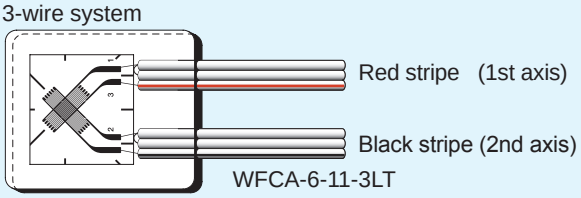


3-wire system



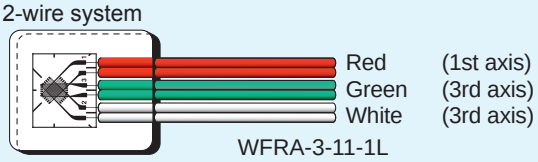
0°/90° 2-element Rosette Stacked: WFCA

3-wire system

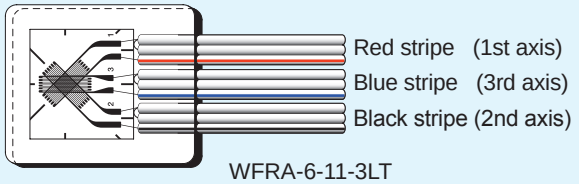


0°/45°/90° 3-element Rosette Stacked: WFRA

2-wire system



3-wire system



L : length W : width T: thickness (Unit:mm)

Basic type		Gauge size L	Gauge size W	Backing L	Backing W	Backing T	Resistance Ω
2-wire system							
Single element							
WFLA-3	-1L	3	1.7	17.0	8.0	1.5	120
WFLA-3-350	-3L	3	3.2	17.0	8.0	1.5	350
WFLA-6	-5L	6	2.2	25.0	11.0	1.5	120
0°/90° 2-element Rosette Stacked							
WFCA-3	-1L -3L	3	1.7	19.0	16.0	1.5	120
WFCA-6	-5L	6	2.3	25.0	21.0	1.5	120
0°/45°/90° 3-element Rosette Stacked							
WFRA-3	-1L -3L	3	1.7	19.0	16.0	1.5	120
WFRA-6	-5L	6	2.3	25.0	21.0	1.5	120

Minimum order is 10 gauges or more.

3-wire system

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

Slingle element							
WFLA-3	-3LT	3	1.7	17.0	8.0	1.5	120
WFLA-6	-5LT	6	2.2	25.0	11.0	1.5	120
0°/90° 2-element Stacked							
WFCA-3	-3LT	3	1.7	19.0	16.0	1.5	120
WFCA-6	-5LT	6	2.3	25.0	21.0	1.5	120
0°/45°/90° 3-element Rosette Stacked							
WFRA-3	-3LT	3	1.7	19.0	16.0	1.5	120
WFRA-6	-5LT	6	2.3	25.0	21.0	1.5	120

Minimum order is 10 gauges or more.