



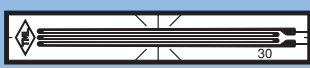
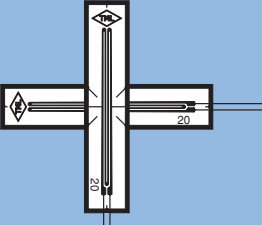
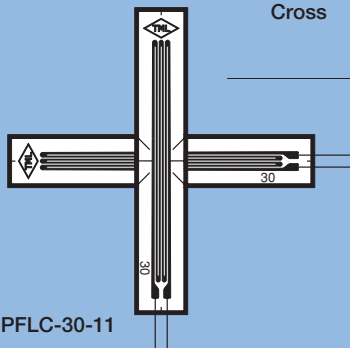
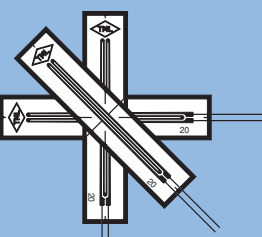
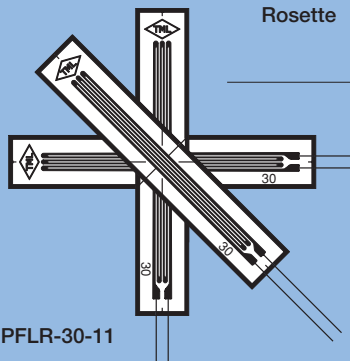
# POLYESTER FOIL STRAIN GAUGE series "PF"

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



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

## STEEL, CONCRETE, MORTAR MATERIALS USE

Gauge pattern	Type	Gauge size		Backing		Resistance in Ω
		L	W	L	W	
This is a foil strain gauge having polyester resin backing. It is mainly used for measurement on steel, concrete or mortar.						
●Single-element (G.F. 2.1 approx.)						
 PFL-10-11	Single-element	10	0.9	17.5	5	120
 PFL-20-11		20	1.2	28	6	120
 PFL-30-11		30	2.3	40	7	120
●90° 2-element Cross (G.F. 2.1 approx.)						
 PFLC-20-11	90° 2-element Cross	20	1.2	28	28	120
 PFLC-30-11		30	2.3	40	40	120
●45°/90° 3-element Rosette (G.F. 2.1 approx.)						
 PFLR-20-11	45°/90° 3-element Rosette	20	1.2	28	28	120
 PFLR-30-11		30	2.3	40	40	120
Each package contains 10 gauges.						


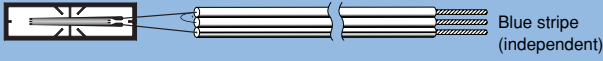
# LEADWIRE-INTEGRAL series "PF" POLYESTER GAUGE

Compatible adhesive & Operational temperature  
 CN : -20~+80°C  
 PR-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.

## STEEL, CONCRETE, MORTAR MATERIALS USE

Gauge pattern	Type	Gauge size		Backing			Resistance in Ω
		L	W	L	W	T	
This gauge has a pre-attached vinyl lead wire to PF series. Works for lead wire connection such as strain gauge terminal installation and lead wire soldering are not required. It saves much time and labor. ●Single-element (G.F. 2.1 approx.) 0.11mm <sup>2</sup> integral vinyl leadwire Total leadwire resistance per meter : 0.32 Ω  2-wire system  Grey  PFL-10-11-1L  3-wire system  Blue stripe (independent)  PFL-10-11-3LT  Each package contains 10 gauges. Other gauges of PF series are also available with leadwire-integral service, contact TML. PFLC-30-11, PFLR-30-11 are not available for the service.							
	PFL-10-11	-1L	10	0.9	18	6	120
	PFL-20-11	-3L	20	1.2	28	6	120
	PFL-30-11	-5LT	30	2.3	40	7	120

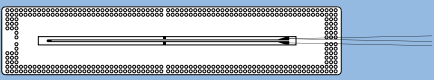
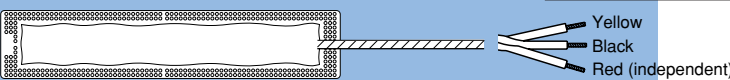
# METAL BACKING series "FLM/WFLM" STRAIN GAUGE

Compatible adhesive & Operational temperature  
 PS : -20~+80°C



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

## CONCRETE MATERIAL USE

Gauge pattern	Type	Gauge size		Backing			Resistance in Ω	
		L	W	L	W	T		
This gauge has a thin stainless steel backing which prevents the lowering of insulation resistance caused by the penetration of moisture from the concrete surface. It is suited to long term measurement. The WFLM has integral lead wire and moisture proof coating over the gauge.  ●Single-element (G.F. 2.0 approx.)  (X1/2) FLM-60-11  <b>WATERPROOF TYPE</b> ●Single-element (G.F. 2.0 approx.) 0.09mm <sup>2</sup> integral crosslinked polyethylene sheath leadwire of 2m standard Total leadwire resistance per meter : 0.4 Ω  3-wire system  (X1/2) Yellow Black Red (independent)  WFLM-60-11  Each package contains 10 gauges. Other length of leadwire is also available on request.								
	Single-element	FLM-30-11	30	0.5	60	18	0.12	120
		FLM-60-11	60	0.7	90	18	0.12	120
	Waterproof type	WFLM-30-11	30	0.5	60	18	4	120
Single-element	WFLM-60-11	60	0.7	90	18	4	120	