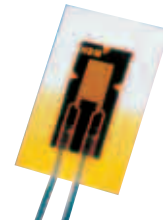
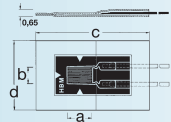


Special Strain Gages

Encapsulated Strain Gage complete with stranded wire

- according to protection class IP 67¹⁾
- with 1 m teflon-insulated connection wire
- proof against humidity and resistant against chemicals²⁾, as encapsulated on all sides
- excellent zero signal stability with changing humidity
- optional selection of 2-wire or 4-wire circuit



Order designation of preference types	Nominal resistance	Dimensions (mm) [1 inch = 25.4 mm]				Max. perm. effective bridge supply voltage	LE11 encapsulated linear gage Temperature variation adjusted to steel with $\alpha = 10.8 \cdot 10^{-6} / K$
		Measuring grid		Measuring grid carrier			
Steel	Ω	a	b	c	d	V	
1-LE11-3/350Z (2-wire connection)	350	3	2	15	9	6	Illustration shows actual size 
1-LE11-3/350V (4-wire connection)	350	3	2	15	9	6	
							Contents per pack. 5 pcs.

Technical Data

Type		LE11-3/350
strain gage construction		foil strain gage, IP 67, resistant against chemicals ²⁾
measuring grid material		Constantan foil
measuring grid length	mm	3
carrier material		special plastic material
thickness	μm	25
cover material		special plastic material, 25 μm in thickness
thickness of the complete strain gage	mm	0.65
nominal resistance	Ω	350
resistance tolerance per package	%	± 0.5
gage factor		approx. 2
nominal value of gage factors		specified on each package
gage factor tolerance	%	± 1
reference temperature	$^{\circ}C$	+ 23
operation temperature range		
for application with Z 70	$^{\circ}C$	- 70 ... + 120
for application with EP 250/EP 310/X 280	$^{\circ}C$	-200 ... + 180
temperature variation adjusted to thermal expansion coefficient α for ferretic steel	1/K	$10.8 \cdot 10^{-6}$
adjustment of temperature variation within range	$^{\circ}C$	- 10...+ 120
transverse sensitivity at reference temperature using adhesive Z 70	%	0.25
minimum radius of curvature, longitudinal and transverse, at reference temperature	mm	3
maximun elongation at reference temperature	$\mu m/m$	$\pm 50\ 000$ ($\Delta \pm 5\ %$)
fatigue life ¹⁾ at reference temperature using adhesive Z 70		
stress cycle value L_w at alternating strain $\epsilon_w = \pm 1000\ \mu m/m$ and zero zero point drift		$\gg 10^7$ (test was interrupted at 10^7) $> 10^7$ (test was interrupted at 10^7)
connection cable 1m in length		2 or 4 teflon-insulated wires
adhesive		Z 70, EP 310, EP 250, X 280

¹⁾ Please note the resistance of the adhesive used for bonding the strain gage

²⁾ Strongly concentrated acids (sulphuric acid, nitric acid) only will destroy this special plastic material. High resistance against fuels and engine oils.