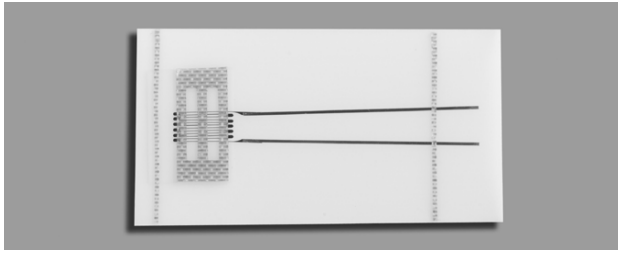


## Special Use Strain Gages - High-Temperature Strain Gages



### FEATURES

- Measurement range to 2100 °F (1150 °C)
- Free-filament Kanthal alloy grids for bonding with ceramic adhesives.
- Linear and Tee-rosette patterns


ZC-Series strain gages are etched Kanthal (Fe-Cr-Al alloy) foil grids in free-filament form for high-temperature applications. They are bonded with either ceramic adhesives, or by the use of flame spray or Rokide® processes.


ZC-Series strain gages cannot be self-temperature compensated, and a dummy compensating gage must be used for minimizing of thermally induced apparent strain

(thermal output). Several patterns are available with built-in compensating grids.

ZC-Series strain gages are supplied with a removable high-temperature carrier for gage handling during installation. All patterns have 1 in (25.4 mm) Nichrome ribbon leads spot welded to the gage tabs for leadwire attachment.


GAGE PATTERN		inch millimeter	GAGE DESIGNATION	RES. IN OHMS	OPTIONS AVAILABLE
Not shown actual size. Enlarged when necessary for definition.					


G1262				Square linear pattern.		
						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.062	0.150	0.076	0.076			
1.57	3.81	1.93	1.93			
MATRIX SIZE	N/A			ZC-NC-G1262-120	120	


G1263				Wide linear pattern.		
						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.100	0.248	0.179	0.179			
2.54	6.30	4.55	4.55			
MATRIX SIZE	N/A			ZC-NC-G1263-120	120	

Special Use Strain Gages - High-Temperature Strain Gages

<b>GAGE PATTERN</b> Not shown actual size. Enlarged when necessary for definition.	inch millimeter	<b>GAGE DESIGNATION</b>	<b>RES. IN OHMS</b>	<b>OPTIONS AVAILABLE</b>


<b>G1264</b>				Linear pattern with inactive temperature-compensating grid.		
						
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>			
0.100	0.310	0.179	0.430			
2.54	7.87	4.55	10.92			
<b>MATRIX SIZE</b>	N/A			ZC-NC-G1264-120	120	

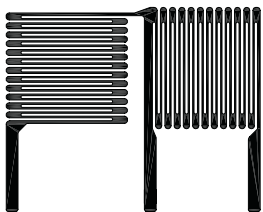
<b>G1265</b>				Linear pattern.		
						
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>			
0.138	0.300	0.138	0.138			
3.51	7.62	3.51	3.51			
<b>MATRIX SIZE</b>	N/A			ZC-NC-G1265-120	120	

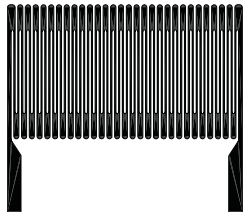
<b>G1266</b> <b>G1272</b>				Linear pattern. Higher resistance linear pattern.		
						
<b>GAGE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>GRID WIDTH</b>	<b>OVERALL WIDTH</b>			
0.200	0.380	0.135	0.135			
5.08	9.65	3.43	3.43			
<b>MATRIX SIZE</b>	N/A			ZC-NC-G1266-120 ZC-NC-G1272-350	120 350	

### Special Use Strain Gages - High-Temperature Strain Gages

GAGE PATTERN	GAGE DESIGNATION	RES. IN OHMS	OPTIONS AVAILABLE		
Not shown actual size. Enlarged when necessary for definition. <table border="1" style="float: right; margin-left: 20px;"> <tr> <td style="text-align: center;">inch</td> </tr> <tr> <td style="text-align: center;">millimeter</td> </tr> </table>	inch	millimeter			
inch					
millimeter					

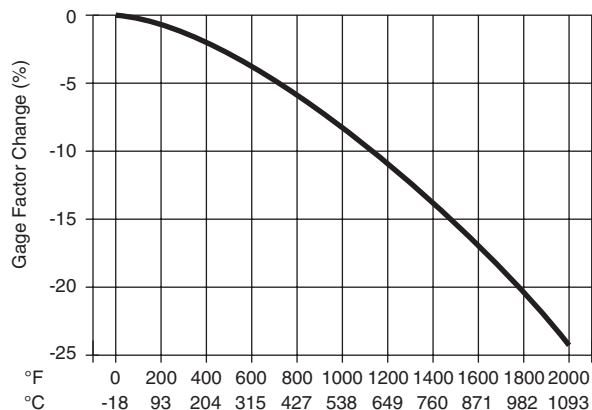
<b>G1267</b>				Linear pattern with inactive temperature-compensating grid.		
						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.200	0.503	0.134	0.442			
5.08	12.78	3.40	11.23			
MATRIX SIZE	N/A			ZC-NC-G1267-120	120	

<b>G1269</b> <b>G1275</b>				Tee-rosette pattern in half-bridge configuration.		
						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.125	0.278	0.150	0.346			
3.18	7.06	3.81	8.79			
MATRIX SIZE	N/A			ZC-NC-G1269-200 ZC-NC-G1275-350	200 350	

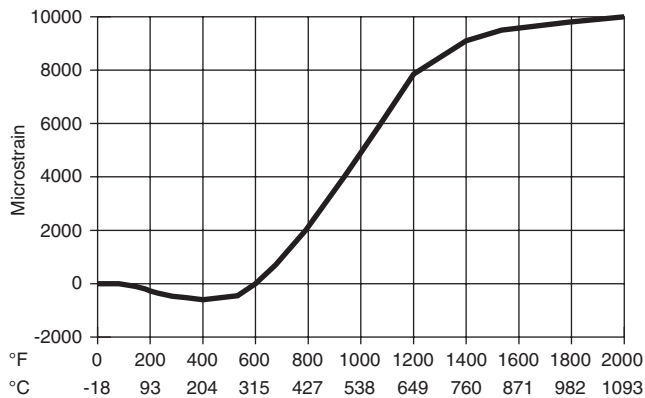
<b>G1270</b>				Higher resistance linear pattern.		
						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.100	0.250	0.280	0.300			
2.54	6.35	7.11	7.62			
MATRIX SIZE	N/A			ZC-NC-G1270-350	350	

Special Use Strain Gages - High-Temperature Strain Gages

**GAGE FACTOR VARIATION WITH TEMPERATURE FOR ZC-SERIES GAGE**



**TYPICAL APPARENT STRAIN ZC-SERIES GAGE ON TITANIUM WITH H CEMENT**



**APPARENT STRAIN/THERMAL OUTPUT ZC-NC-G1267-120 GAGE**

