



Cabled Strain Gages For General-Purpose Applications



FEATURES

- Pre-attached cables for faster, easier gage installations
- Linear, shear, Tee- and rectangular-rosette patterns with polyimide encapsulation
- Low cost alternative for test temperatures to +180°F (+80°C)

DESCRIPTION

Vishay Micro-Measurements C2A-Series strain gages are designed to save you time and money. The skill level necessary to make dependable installations is greatly reduced by the pre-attached cables. Further, installations of gages are simplified in difficult locations on components or in the field.

SPECIFICATIONS

Carrier Matrix: The “C2” matrix provides an encapsulated gage with pre-attached cables on a thin, high-performance laminated polyimide film backing.


Cables: Stranded 30-AWG tinned-copper wire, 3-conductor flat cable with vinyl insulation. Transition between gage and cable of 25mm 34-AWG wires with enamel insulation and +430°F (+220°C) lead-free solder. Standard cable length of 3M (9.8 ft), but other lengths are available upon request.

Temperature Range: -60 to +180°F (-50 to +80°C)

Strain Range: ± 3%

Fatigue Life: 10⁵ cycles at ± 1700 microstrain
10⁶ cycles at ± 1500 microstrain

GAGE PATTERN	Images may not be shown at actual size.	<table border="1"> <tr> <td>inch</td> </tr> <tr> <td>millimeter</td> </tr> </table>	inch	millimeter	GAGE DESIGNATION Insert desired S-T-C number in spaces marked XX.	RES. IN OHMS Tolerance is increased when Option W, E, SE, LE, or P is specified.	OPTIONS AVAILABLE
	inch						
millimeter							
ES = Each section CP = Complete pattern S = Section (S1 = Sec 1) M = Matrix							

062LW				Widely used general-purpose linear gage.		
						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.062	0.175	0.050	0.080			
1.52	4.45	1.27	2.03			
MATRIX SIZE	0.25L x 0.17W		6.4L x 4.3W	C2A-XX-062LW-120	120 ± 0.6%	
				C2A-XX-062LW-350	350 ± 0.6%	

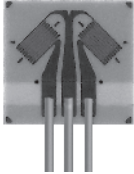
C2A-Series Strain Gages

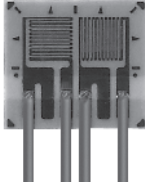
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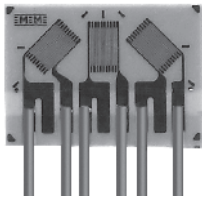


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062LV 				Two-element 90° torque/shear gage.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.062 ES	0.214 CP	0.050 ES	0.215 CP			
1.52 ES	5.44 CP	1.27 ES	5.46 CP			
MATRIX SIZE	0.25L x 0.27W		6.5L x 6.7W		C2A-XX-062LV-120	120 ± 0.6%

062LT 				General-purpose 90° tee rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.062 ES	0.164 CP	0.070 ES	0.170 CP			
1.52 ES	4.17 CP	1.78 ES	4.32 CP			
MATRIX SIZE	0.21L x 0.29W		5.3L x 7.4W		C2A-XX-062LT-120 C2A-XX-062LT-350	120 ± 0.6% 350 ± 0.6%

062LR 				Small 45° rectangular single-plane rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.062 ES	0.185 CP	0.050 ES	0.260 CP			
1.52 ES	4.70 CP	1.27 ES	6.60 CP			
MATRIX SIZE	0.28L x 0.41W		7.0L x 10.4W		C2A-XX-062LR-120 C2A-XX-062LR-350	120 ± 0.6% 350 ± 0.6%

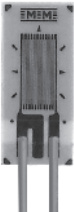


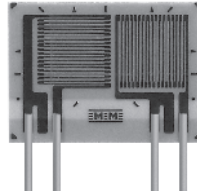
C2A-Series Strain Gages

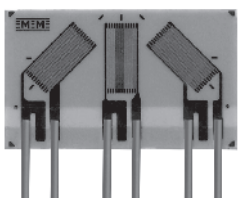
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125LW 				Widely used general-purpose linear gage.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	C2A-XX-125LW-120 C2A-XX-125LW-350	120 ± 0.6% 350 ± 0.6%	
0.125	0.238	0.070	0.080			
3.18	8.05	1.78	2.03			
MATRIX SIZE	0.32L x 0.17W		8.0L x 4.3W			

125LT 				General-purpose 90° tee rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	C2A-XX-125LT-120 C2A-XX-125LT-350	120 ± 0.6% 350 ± 0.6%	
0.125 ES	0.243 CP	0.150 ES	0.340 CP			
3.18 ES	6.17 CP	3.81 ES	8.64 CP			
MATRIX SIZE	0.29L x 0.40W		7.4L x 10.2W			

125LR 				General-purpose 45° rectangular single-plane rosette.		
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	C2A-XX-125LR-120 C2A-XX-125LR-350	120 ± 0.6% 350 ± 0.6%	
0.125 ES	0.245 CP	0.070 ES	0.415 CP			
3.18 ES	6.22 CP	1.78 ES	10.54 CP			
MATRIX SIZE	0.29L x 0.48W		7.4L x 12.1W			

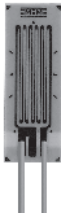
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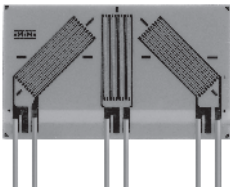
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250LW				Widely used general-purpose linear gage.		
						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.250	0.363	0.100	0.100			
6.35	9.22	2.54	2.54			
MATRIX SIZE	0.44L x 0.17W		11.2L x 4.3W		C2A-XX-250LW-120 C2A-XX-250LW-350	120 ± 0.6% 350 ± 0.6%

250LR				General-Purpose 45° rectangular single-plane rosette.		
						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.250 ES	0.373 CP	0.100 ES	0.655 CP			
6.35 ES	9.47 CP	2.54 ES	16.64 CP			
MATRIX SIZE	0.42L x 0.72W		10.7L x 18.2W		C2A-XX-250LR-120 C2A-XX-250LR-350	120 ± 0.6% 350 ± 0.6%