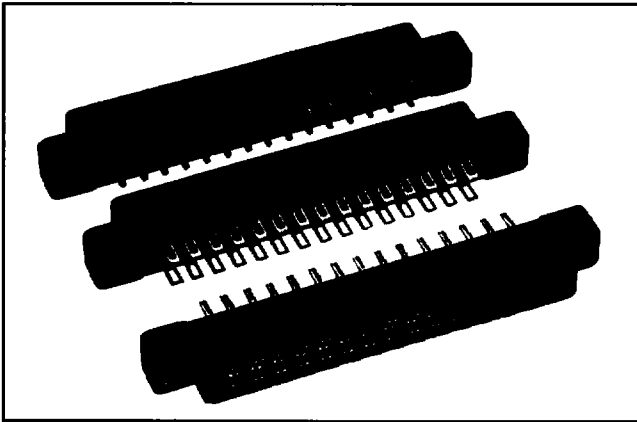


# MODEL EB8 Edgeboard Connectors

## Dual Readout



### FEATURES

- .156" C-C x .200" grid [3.96mm x 5.08mm]
- Greater design latitude
  - 3 body materials: Diallyl phthalate, phenolic and glass-filled polyester
  - 6 contact termination styles
  - 8 body sizes
  - 7 mounting styles
- Bifurcated bellows contacts provide 2 flexing contact surfaces to assure positive contact
- Accepts PC board thickness of .054" - .071" [1.37mm - 1.80mm]
- Polarization between contact positions in all sizes
- Selective gold plating
- **Recognized under the Component Program of Underwriters Laboratories, Inc. Listed under File E65524, Project 77CH3889.**

### ELECTRICAL SPECIFICATIONS

- Current Rating:** 5 amps.
- Test Voltage Between Contacts:**  
At sea level: 1800 V RMS.  
At 70,000 feet [21,336 meters]: 450 V RMS.
- Insulation Resistance:** 5000 Megohm minimum at 500 VDC potential.
- Contact Resistance:** 30 millivolts maximum at rated current (with gold plating).
- Operating Temperature:** - 55°C to + 125°C.
- Humidity:** 96 hours at 90% relative humidity at + 40°C, dried at room temperature for 3 hours minimum, insulation resistance 5000 Megohm.
- Durability:** (With gold plating.) After 500 cycles of insertion and withdrawal of .070" [1.78mm] thick steel test gauge, contact resistance less than .030 V at 5 amps and individual contact retention force when measured with a .054" [1.37mm] thick steel test pin greater than 1/2 ounce.
- Shock:** Three 50 G shocks in each of 3 mutually perpendicular planes with no loss of continuity.
- Vibration:** 2 hours in each of 3 mutually perpendicular planes, frequency sweep 10 to 55 cps at .06 double amplitude with no loss of continuity.

### APPLICATIONS

For use with .062" [1.57mm] printed circuit boards requiring an edgeboard type connector on .156" [3.96mm] centers.

### PHYSICAL SPECIFICATIONS

- Contact Type:** Bifurcated bellows.
- Number of Contacts:** 6, 10, 12, 15, 18, 22, 24, 25 per side.
- Contact Spacing:** .156" [3.96mm] center to center.
- Card Thickness:** .054" to .071" [1.37mm to 1.80mm].
- Card Slot Depth:** .330" [8.38mm], dual readout.

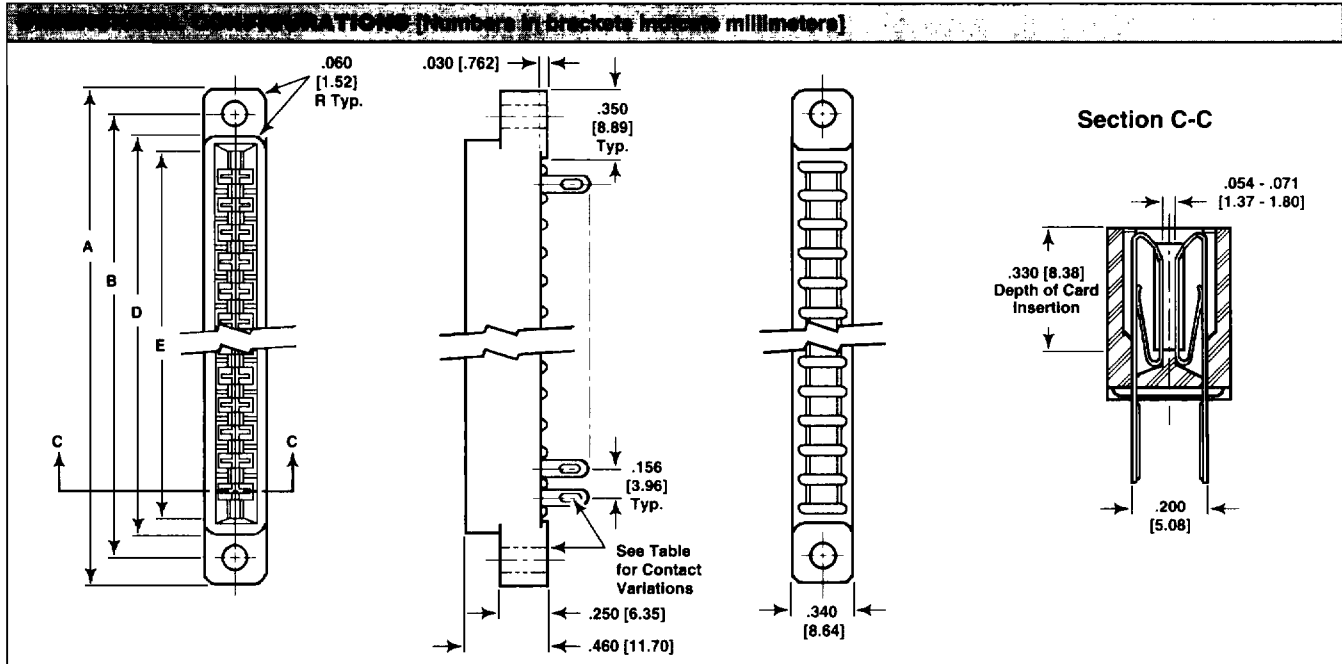
### MATERIAL SPECIFICATIONS

- Body:**
- "1" glass-filled diallyl phthalate per MIL-M-14, Type SDG-F green, flame retardant (UL 94V-0).
  - "2" glass-filled phenolic per MIL-M-14, Type MFH dark green, flame retardant (UL 94V-0).
  - "3" thermoplastic polyester, glass-filled, black, flame retardant (UL 94V-0).
- Contacts:** Phosphor bronze.
- Polarizing Key:** Glass reinforced nylon, flame retardant (UL 94V-0).
- Contact Plating:** Gold (See How to Order).
- Note:** High temperature burn-in, edgeboard connectors, .156" [3.96mm] center to center are on page xxx of this catalog.

### MOUNTING VARIATIONS (Numbers in brackets indicate millimeters)

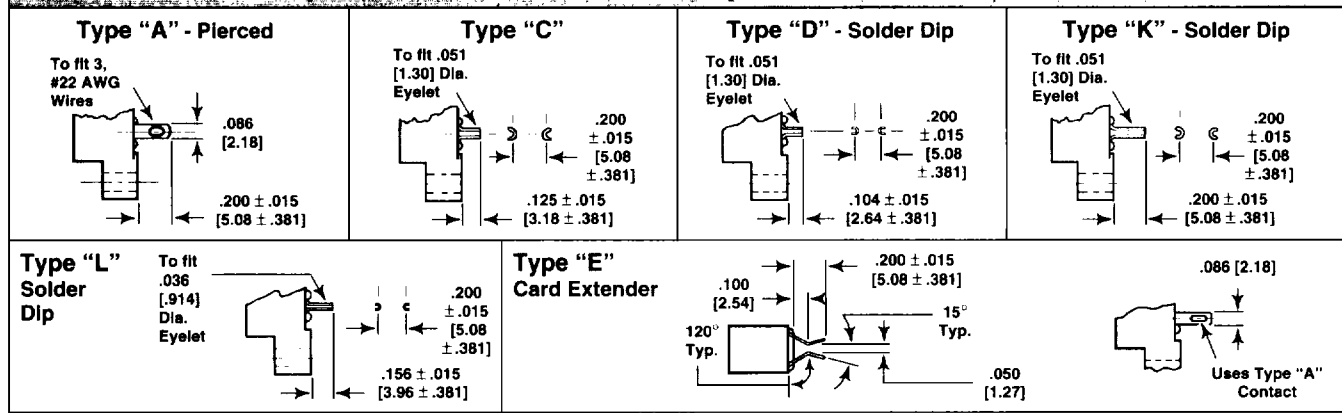
<p><b>Type "V"</b> Clearance Hole</p>	<p><b>Type "VI"</b> Clearance Hole No Mounting Pad</p>	<p><b>Type "W"</b> No Mounting Flange</p>	<p><b>Type "X"</b> Clearance Hole</p>
<p><b>Type "XI"</b> Clearance Hole No Mounting Pad</p>	<p><b>Type "Y"</b> Threaded Insert</p>	<p><b>Type "Z"</b> Floating Bushing Radial Float .047 [1.19]</p> <p><b>Note:</b> Overall body length increased by .060 [1.52].</p>	

**MODEL EB8**



# OF CONTACT POSITIONS	A	B	D	E	Polarizing Key When ordering polarizing keys individually, specify Model Number: PK-8 between contacts. Hand insertion tool, TPK-8, provided on request.
6	1.78 [45.21]	1.531 [38.89]	1.240 [31.50]	1.100 [27.94]	
10	2.41 [61.21]	2.156 [54.76]	1.864 [47.35]	1.724 [43.79]	
12	2.72 [69.09]	2.469 [62.71]	2.176 [55.27]	2.036 [51.71]	
15	3.19 [81.03]	2.937 [74.60]	2.644 [67.16]	2.504 [63.60]	
18	3.66 [92.96]	3.406 [86.51]	3.112 [79.05]	2.972 [75.49]	
22	4.28 [108.71]	4.031 [102.39]	3.736 [94.89]	3.596 [91.34]	
24	4.59 [116.59]	4.344 [110.33]	4.051 [102.89]	3.911 [99.34]	
25	4.75 [120.65]	4.500 [114.30]	4.207 [106.86]	4.067 [103.30]	

**VARIATIONS (Numbers in brackets indicate millimeters)**



**HOW TO ORDER**

EB8 MODEL	1 BODY MATERIAL	B OPTIONAL CONTACTS	A STANDARD TERMINAL VARIATIONS	22 CONTACTS	G CONTACT PLATING	X MOUNTING VARIATIONS	A POLARIZING KEY POSITIONS
	Optional Body Material "1" = Diallyl Phthalate "2" = Phenolic "3" = Glass-filled Polyester	Beryllium Copper contacts optional. Available in "A" and "E" contact styles only. (Omit for standard.)	A, C, D, K, L or E	6, 10, 12, 15, 18, 22, 24 or 25	SG = Selective Gold Plating (.00003" [.000762mm] minimum thick) on contact area with Gold Flash on terminal. SGF = Selective Gold Plating (.00001" [.000254mm] minimum thick) on contact area with Gold Flash on terminal. All Gold Plating over .00005" [.00127mm] minimum Nickel Underplate. Contact factory for additional plating options.		Key(s) are located to right of position(s) designated. Required only when polarizing keys are to be factory installed.