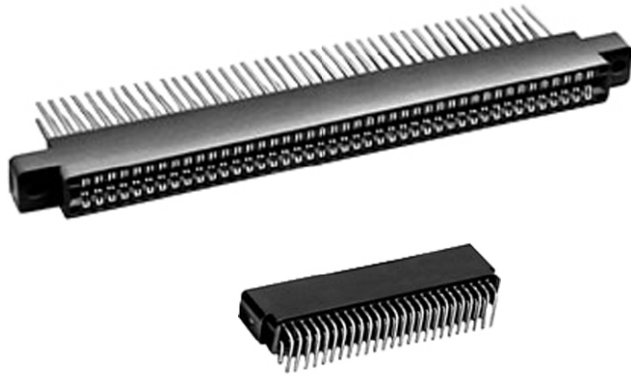


## Edgeboard Connectors, Dual Readout, 0.100" (2.54 mm) C-C, Standard and Right Angle Terminals



### ELECTRICAL SPECIFICATIONS

**Current Rating:** 3 A

**Test Voltage Between Contacts:**

At sea level: 650 V<sub>RMS</sub>

At 70 000 feet (21 336 meters): 275 V<sub>RMS</sub>

**Insulation Resistance:** 5000 MΩ minimum at 500 V<sub>DC</sub> potential

**Contact Resistance:** 30 mV maximum at rated current (with gold plating)

**Operating Temperature:** - 65 °C to + 125 °C

**Humidity:** 96 h at 90 % relative humidity at + 40 °C, dried at room temperature for 3 h minimum, insulation resistance was greater than 5000 MΩ

**Durability:** After 500 cycles of insertion and withdrawal of a 0.070" (1.78 mm) thick steel test board, contact resistance less than 0.030 V at 3 A on gold plated contacts and individual contact pair separation force when measured with a 0.054" (1.37 mm) thick steel test blade was greater than ½ oz.

**Shock:** Three 50G shocks in each of 3 mutually perpendicular planes with no loss of continuity

**Vibration:** 2 h in each of 3 mutually perpendicular planes, frequency sweep 10 cps to 55 cps at 0.06 double amplitude with no loss of continuity

### FEATURES

- Grid Patterns: 0.100" C-C x 0.150" (2.54 mm x 3.81 mm) and 0.100" C-C x 0.200" (2.54 mm x 5.08 mm)
- Standard and right angle terminals
- Greater design latitude:  
4 body materials: Diallyl phthalate, phenolic, glass-filled polyester and glass-filled polyphenylene sulfied  
7 contact termination styles - 3 standard, 4 right angle  
20 body sizes and 6 mounting styles
- Selective gold plating
- Accepts PC board thickness of 0.054" to 0.071" (1.37 mm to 1.80 mm)
- Polarization between contact positions in all sizes. Between contact polarization permits polarizing without loss of contact position.
- **Recognized under the Component Program of Underwriters Laboratories, Inc. listed under file E65524, project 77CH3889**

### APPLICATIONS

For use with 0.0625" (1.59 mm) printed circuit boards requiring an edgeboard type connector on 0.100" (2.54 mm) centers

### MATERIAL SPECIFICATIONS

**Body Material:**

"1" glass-filled diallyl phthalate per MIL-M-14, Type SDG-F green, flame retardant (UL 94 V-0)

"2" glass-filled phenolic per MIL-M-14, Type MFH dark green, flame retardant (UL 94 V-0)

"3" thermoplastic polyester, glass-filled, black, flame retardant (UL 94 V-0)

"5" thermoplastic polyphenylene sulfied, glass filled, brown, flame retardant (UL 94 V-0)

**Contacts:** Phosphor bronze (See Ordering Information)

**Polarizing Key:** Glass reinforced nylon, flame retardant (UL 94H-B)

**Plating:** Gold (See Ordering Information)

### ORDERING INFORMATION

EB4	3	K	20	SG	X	15
MODEL	BODY MATERIAL	STANDARD TERMINAL VARIATIONS	CONTACTS PER SIDE	CONTACT PLATING	MOUNTING VARIATIONS	POLARIZING KEY POSITIONS
	1 = Diallyl Phthalate	C, D, K,	6, 10, 12,	SG = Selective gold plating (0.00003" (0.000762 mm) minimum thick) on contact area with gold flash on terminal.		Key(s) are located to right of position(s) designated. Use odd-numbered contact for ordering: -1, -3, -5, etc. Required only when polarizing keys are to be factory installed. <b>Note:</b> To order polarizing keys individually, specify model PK-4.
	2 = Phenolic	1R, 2R,	15, 18, 20,	SGF = Selective gold plating (0.000010" (0.000254 mm) minimum thick) on contact area with gold flash on terminal.		
	3 = Glass-filled Polyester	3R, 4R	22, 25, 28,	All gold plating over 0.00005" (0.00127 mm) minimum nickel underplate.		
	5 = Glass-filled Polyphenylene Sulfied		30, 31, 35,	Contact factory for additional plating options.		
			36, 40, 43,			
			44, 48, 49,			
			50, 60,			
			and 65			



**PHYSICAL SPECIFICATIONS**

**Contact Type:** Bifurcated cantilever beam

**Number of Contacts:** 10, 12, 15, 18, 20, 22, 25, 28, 30, 31, 35, 36, 40, 43, 44, 48, 49, 50, 60 and 65 per side

**Contact Terminal Variation:** Standard terminals

**Type "C"** - dip solder, 0.025" (0.635 mm) square terminals, 0.175" (4.44 mm) nominal terminal length below standoffs

**Type "D"** - dip solder, 0.025" (0.635 mm) square terminals, 0.115" (2.92 mm) nominal terminal length below standoffs

**Type "K"** - Wire Wrap™, 0.025" (0.635 mm) square terminals, 0.570" (14.48 mm) nominal terminal length below standoffs

**Contact Terminal Variation:** Right angle terminals

**Type "1R"** - dip solder, 0.025" (0.635 mm) square terminals, 0.120" (3.05 mm) nominal terminal length x 0.150" (3.81 mm) nominal terminal row spacing

**Type "2R"** - dip solder, 0.025" (0.635 mm) square terminals, 0.120" (3.05 mm) nominal terminal length x 0.200" (5.08 mm) nominal terminal row spacing

**Type "3R"** - dip solder, 0.025" (0.635 mm) square terminals, 0.180" (4.57 mm) nominal terminal length x 0.150" (3.81 mm) nominal terminal row spacing

**Type "4R"** - dip solder, 0.025" (0.635 mm) square terminals, 0.180" (4.57 mm) nominal terminal length x 0.200" (5.08 mm) nominal terminal row spacing

**Contact Spacing:** 0.100" (2.54 mm) center to center

**Contact Terminal Row Spacing:** Standard - 0.200" (5.08 mm) nominal. Right angle - 0.200" (5.08 mm) nominal and 0.150" (3.81 mm) nominal

**Card Thickness:** 0.054" to 0.071" (1.37 mm to 1.80 mm)

**Card Slot Depth:** 0.300" (7.62 mm)

**Connector Polarization:** Between contact polarization key(s) are located to the right of the contact position(s) designated

**Note**

- High temperature burn-in, edgeboard connectors, with 0.100" (2.54 mm) center to center are on [www.vishay.com/doc?36006](http://www.vishay.com/doc?36006)



**TERMINAL VARIATIONS** in inches (millimeters)

TYPE	A	B
1R	0.150 (3.81)	0.120 ± 0.030 (3.05 ± 0.762)
2R	0.200 (5.08)	0.120 ± 0.030 (3.05 ± 0.762)
3R	0.150 (3.81)	0.180 ± 0.030 (4.57 ± 0.762)
4R	0.200 (5.08)	0.180 ± 0.030 (4.57 ± 0.762)

TYPE	Terminal Length
Type "C" and "D" Solder Dip, Standard 0.025 (0.635) Square Terminals	0.200 (5.08) To Fit 0.050 ± 0.002 (1.27 ± 0.051) Dia. Eyelet "C" = 0.175 (4.44) "D" = 0.115 (2.92)
Type "K" Wire Wrap™, Standard 0.025 (0.635) Square Terminals	0.200 (5.08) 0.570 (14.48)
Type "1R", "2R", "3R" and "4R" Right Angle 0.025 (0.635) Square Terminals	0.590 (14.99) A B



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