



Edgeboard Connectors, Dual Readout, 0.100" [2.54mm] C-C, Standard and Right Angle Terminals



ELECTRICAL SPECIFICATIONS

Current Rating: 3 amps.

Test Voltage Between Contacts:

At sea level: 650VRMS.

At 70,000 feet [21,336 meters]: 275VRMS.

Insulation Resistance: 5000 Megohm minimum at 500VDC potential.

Contact Resistance: 30 millivolts maximum at rated current (with gold plating).

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

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

Durability: After 500 cycles of insertion and withdrawal of a 0.070" [1.78mm] thick steel test board, contact resistance less than 0.030V at 3 amps on gold plated contacts and individual contact pair separation force when measured with a 0.054" [1.37mm] thick steel test blade was greater than 1/2 ounce.

Shock: Three 50g 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 55cps at 0.06 double amplitude with no loss of continuity.

FEATURES

- Grid Patterns: 0.100" C-C x 0.150" [2.54mm x 3.81mm] and 0.100" C-C x 0.200" [2.54mm x 5.08mm].
- Standard and right angle terminals.
- Greater design latitude:
4 body materials: Diallyl phthalate, phenolic, glass-filled polyester and glass-filled polyphenylene sulfid.
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" [1.37mm to 1.80mm].
- 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" [1.59mm] printed circuit boards requiring an edgeboard type connector on 0.100" [2.54mm] centers.

MATERIAL SPECIFICATIONS

Body Material:

"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).

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

Contacts: Phosphor bronze. (See Ordering Information.)

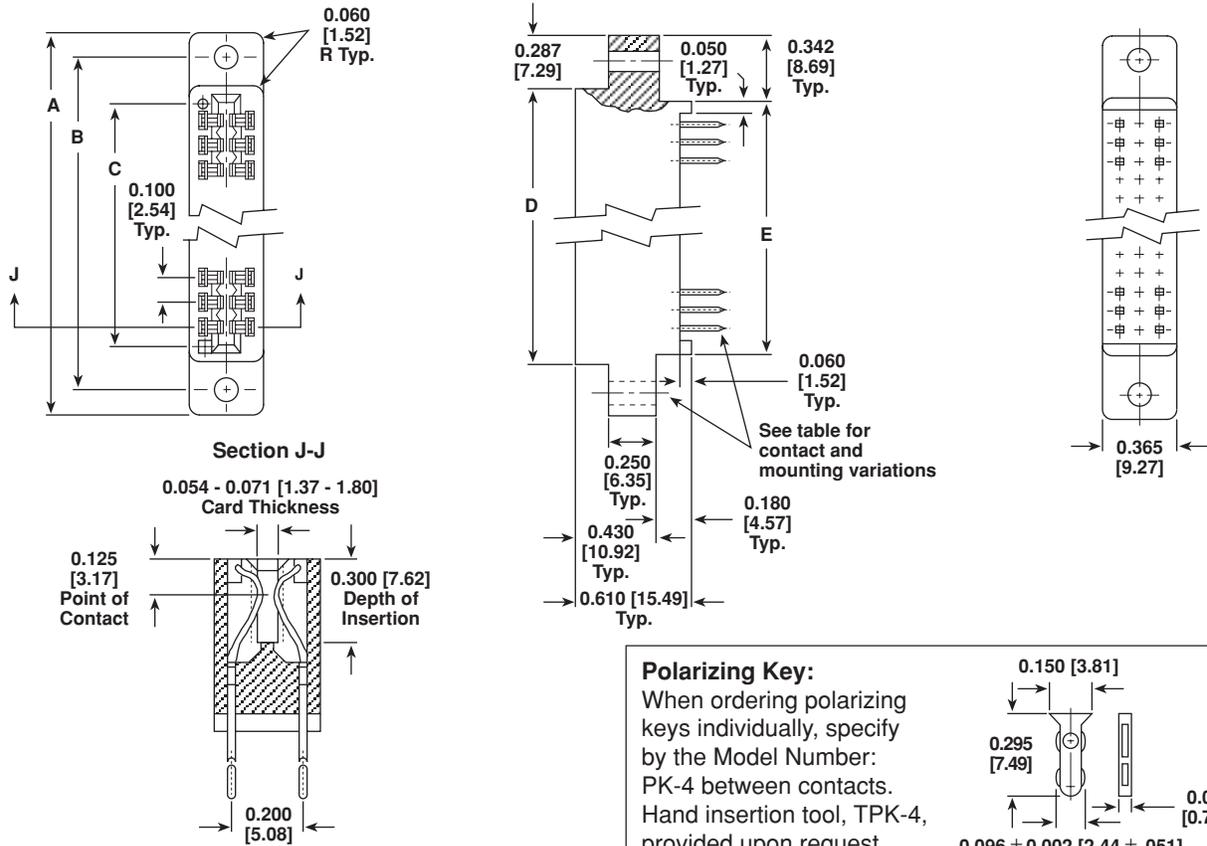
Polarizing Key: Glass reinforced nylon, flame retardant (UL 94H-B).

Plating: Gold. (Ordering Information.)

ORDERING INFORMATION

EB4	3	K	20	SG	X	15
MODEL	BODY MATERIAL	STANDARD TERMINAL VARIATIONS	CONTACTS	CONTACT PLATING	MOUNTING VARIATIONS	POLARIZING KEY POSITIONS
	1 = Diallyl Phthalate	C, D, K, 1R, 2R,	6, 10, 12, 15, 18, 20,	SG = Selective Gold Plating (0.00003" [0.000762mm] 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. NOTE: To order polarizing keys individually, specify Model PK-4.
	2 = Phenolic	3R, 4R	22, 25, 28,	SGF = Selective Gold Plating (0.000010" [0.000254mm] minimum thick) on contact area with Gold Flash on terminal.		
	3 = Glass-filled Polyester		30, 31, 35, 36, 40, 43,	All Gold Plating over 0.00005" [0.00127mm] minimum Nickel Underplate.		
	5 = Glass-filled Polyphenylene Sulfid		44, 48, 49, 50, 60 and 65 per side.	Contact factory for additional plating options.		

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DIMENSIONS in inches [millimeters]


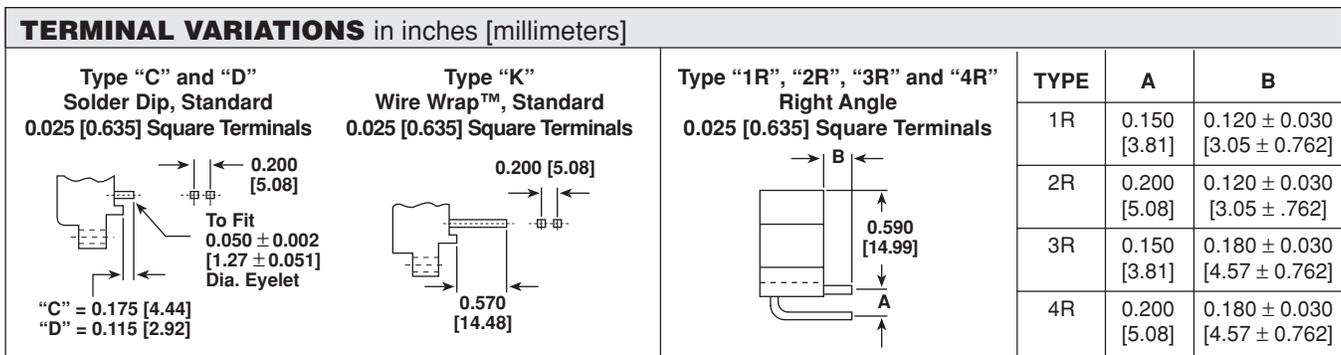
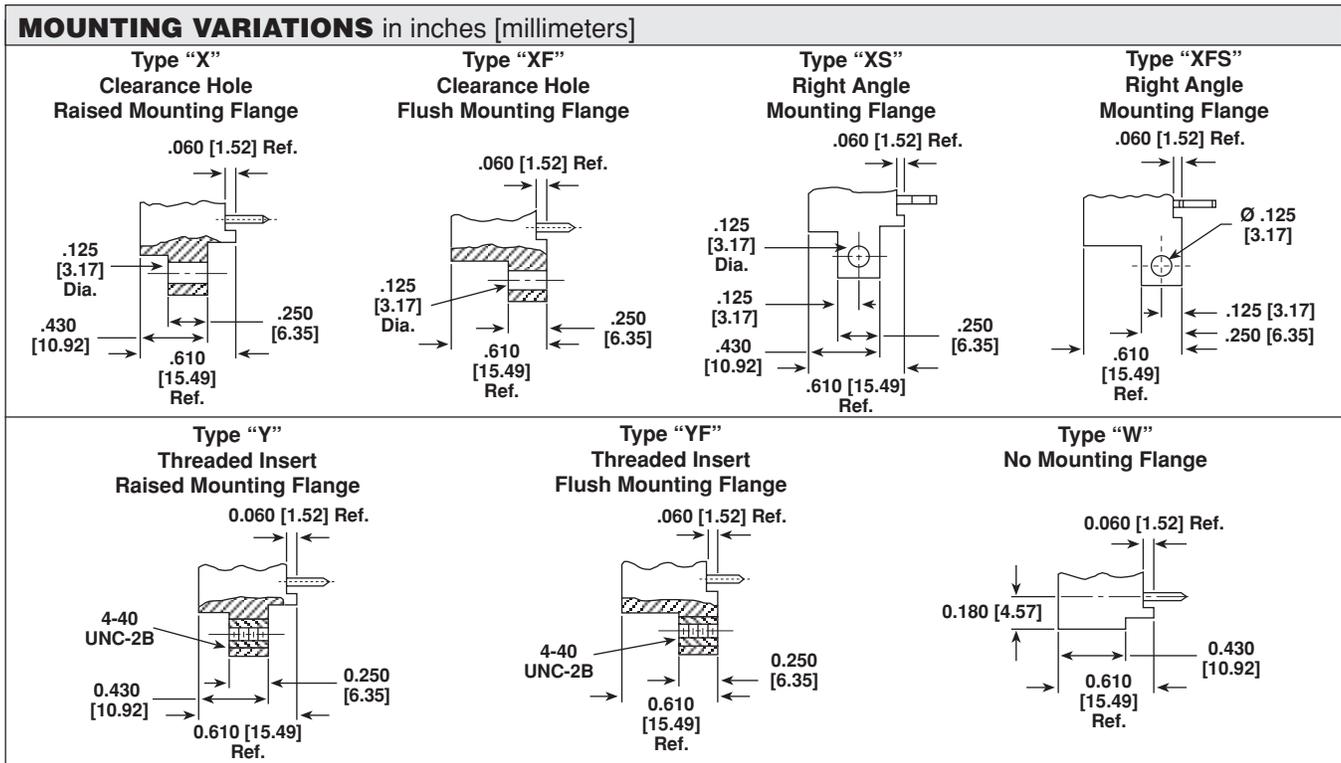
# OF CONTACT POSITIONS PER SIDE	A	B	C	D	E
6	1.435 [36.45]	1.175 [29.85]	0.700 [17.78]	0.860 [21.84]	0.750 [19.05]
10	1.835 [46.61]	1.575 [40.00]	1.100 [27.94]	1.260 [32.00]	1.150 [29.21]
12	2.035 [51.69]	1.775 [45.08]	1.300 [33.02]	1.460 [37.08]	1.350 [34.29]
15	2.335 [59.31]	2.075 [52.70]	1.600 [40.64]	1.760 [44.70]	1.650 [41.91]
18	2.635 [66.93]	2.375 [60.32]	1.900 [48.26]	2.060 [52.32]	1.950 [49.53]
20	2.835 [72.01]	2.575 [65.40]	2.100 [53.34]	2.260 [57.40]	2.150 [54.61]
22	3.035 [77.09]	2.775 [70.48]	2.300 [58.42]	2.460 [62.48]	2.350 [59.69]
25	3.335 [84.71]	3.075 [78.10]	2.600 [66.04]	2.760 [70.10]	2.650 [67.31]
28	3.635 [92.33]	3.375 [85.72]	2.900 [73.66]	3.060 [77.72]	2.950 [74.93]
30	3.835 [97.41]	3.575 [90.80]	3.100 [78.74]	3.260 [82.80]	3.150 [80.01]
31	3.935 [99.95]	3.675 [93.34]	3.200 [81.28]	3.360 [85.34]	3.250 [82.55]
35	4.335 [110.11]	4.075 [103.50]	3.600 [91.44]	3.760 [95.50]	3.650 [92.71]
36	4.435 [112.65]	4.175 [106.04]	3.700 [93.98]	3.860 [98.04]	3.750 [95.25]
40	4.835 [122.81]	4.575 [116.20]	4.100 [104.14]	4.260 [108.20]	4.150 [105.41]
43	5.135 [130.43]	4.875 [123.82]	4.400 [111.76]	4.560 [115.82]	4.450 [113.03]
44	5.235 [132.97]	4.975 [126.36]	4.500 [114.30]	4.660 [118.36]	4.550 [115.57]
48	5.635 [143.13]	5.375 [136.52]	4.900 [124.46]	5.060 [128.52]	4.950 [125.73]
49	5.735 [145.67]	5.475 [139.06]	5.000 [127.00]	5.160 [131.06]	5.050 [128.27]
50	5.835 [148.21]	5.575 [141.60]	5.100 [129.54]	5.260 [133.60]	5.150 [130.81]
60	6.835 [173.61]	6.575 [167.00]	6.100 [154.94]	6.260 [159.00]	6.150 [156.21]
65	7.335 [186.31]	7.075 [179.70]	6.600 [167.64]	6.760 [171.70]	6.650 [168.91]

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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" [0.635mm] square terminals, 0.175" [4.44mm] nominal terminal length below standoffs.
Type "D" - Dip Solder, 0.025" [0.635mm] square terminals, 0.115" [2.92mm] nominal terminal length below standoffs.
Type "K" - Wire Wrap™, 0.025" [0.635mm] square terminals, 0.570" [14.48mm] nominal terminal length below standoffs.
Contact Terminal Variation: Right angle terminals.
Type "1R" - Dip Solder, 0.025" [0.635mm] square terminals, 0.120" [3.05mm] nominal terminal length x 0.150" [3.81mm] nominal terminal row spacing.
Type "2R" - Dip Solder, 0.025" [0.635mm] square terminals, 0.120" [3.05mm] nominal terminal length x 0.200" [5.08mm] nominal terminal row spacing.

Type "3R" - Dip Solder, 0.025" [0.635mm] square terminals, 0.180" [4.57mm] nominal terminal length x 0.150" [3.81mm] nominal terminal row spacing.
Type "4R" - Dip Solder, 0.025" [0.635mm] square terminals, 0.180" [4.57mm] nominal terminal length x 0.200" [5.08mm] nominal terminal row spacing.
Contact Spacing: 0.100" [2.54mm] center to center.
Contact Terminal Row Spacing: Standard - 0.200" [5.08mm] nominal. Right Angle - 0.200" [5.08mm] nominal and 0.150" [3.81mm] nominal.
Card Thickness: 0.054" to 0.071" [1.37mm to 1.80mm].
Card Slot Depth: 0.300" [7.62mm].
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" [2.54mm] center to center are on page 20 of this catalog.



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