

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 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" [1.37mm 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 sulfied, glass filled, brown, flame retardant (UL 94V-0).

Contacts: Phosphor bronze. (See Ordering Information.)

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

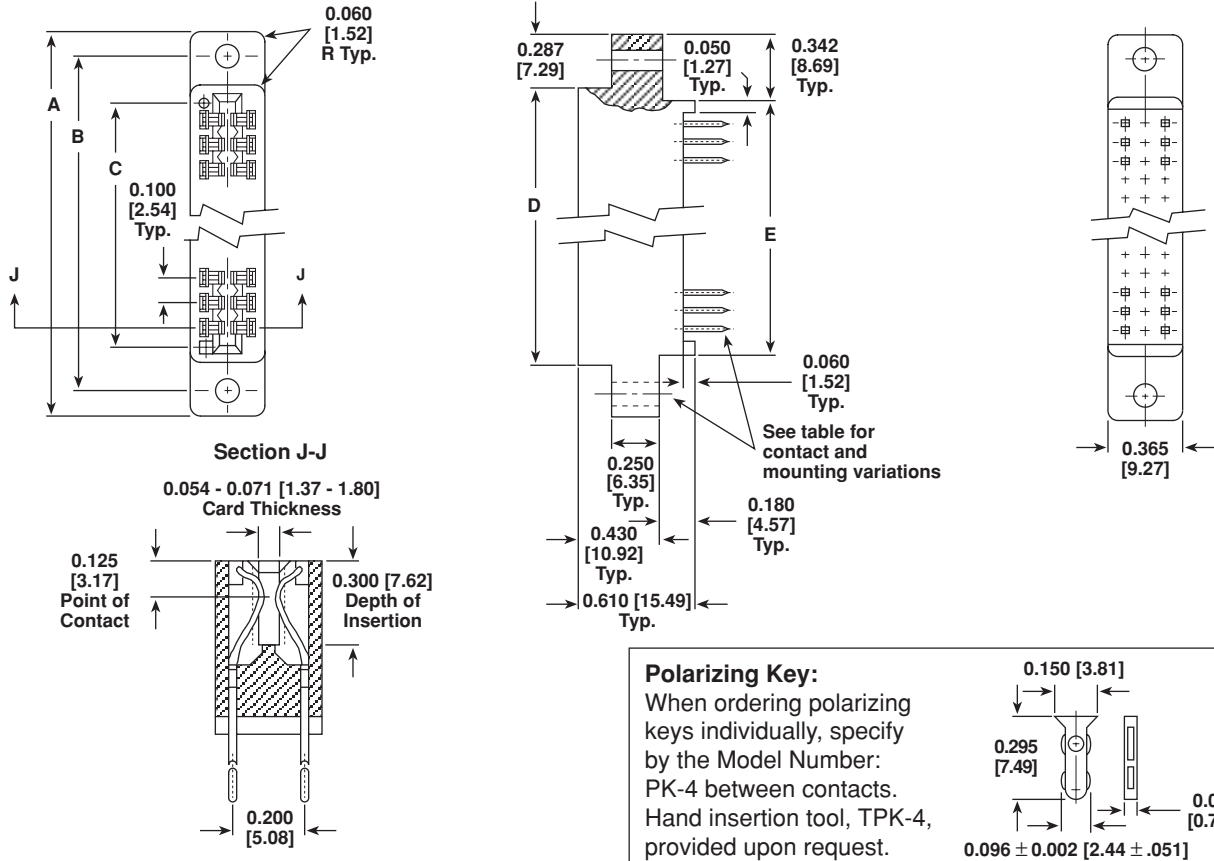
Plating: Gold. (Ordering Information.)

ORDERING INFORMATION

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

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

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]

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

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.

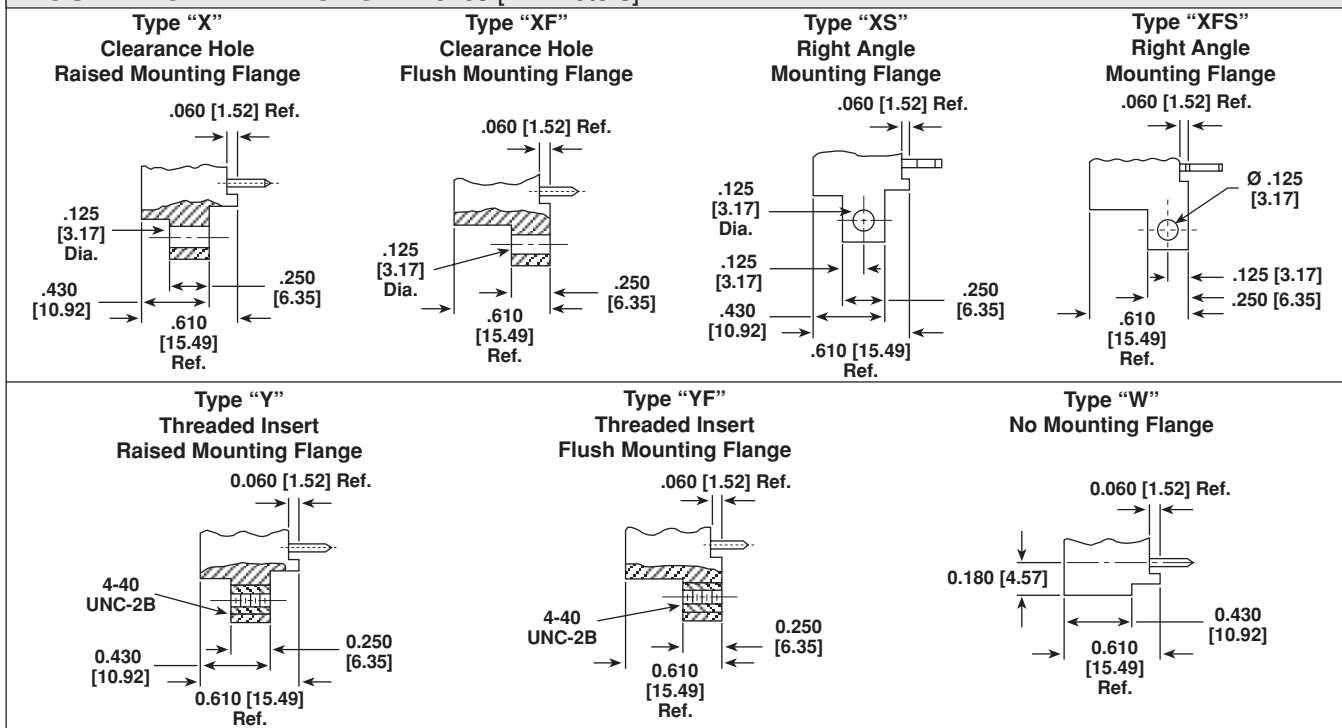
Card Thickness: 0.054" to 0.071" [1.37mm to 1.80mm].

Card Slot Depth: 0.300" [7.62mm].

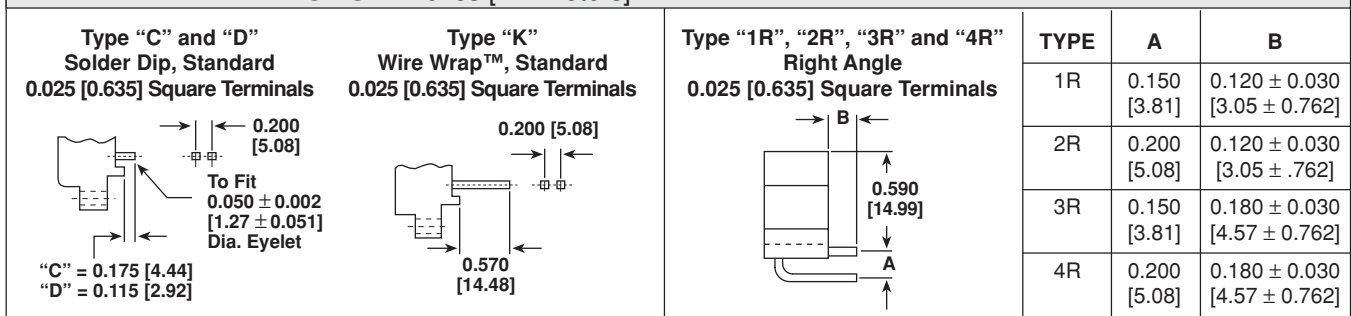
Connector Polarization: Between contact polarization key(s) are located to the right of the contact position(s) designated.

NOTE: High temperature burn-in, edgeboard connectors, with 0.100" [2.54mm] center to center are on page 20 of this catalog.

MOUNTING VARIATIONS in inches [millimeters]



TERMINAL VARIATIONS in inches [millimeters]





Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.