Edgeboard Connectors, Dual Readout, 0.125" [3.17mm] C-C, Standard and Right Angle Terminals



FEATURES

- Grid Patterns: 0.125" C-C x 0.150" [3.17mm x 3.81mm], 0.125" C-C x 0.200" [3.17mm x 5.08mm] and 0.125" C-C x 0.250" [3.17mm x 6.35mm].
- Standard and right angle terminals.
- Greater design latitude:
  3 body materials: Diallyl phthalate, phenolic, glass-filled polyester and glass-filled polyphenylene sulfied.
  7 contact termination styles: 3 standard, 4 right angle.
  19 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.**

ELECTRICAL SPECIFICATIONS

Current Rating: 3 amps.

Test Voltage Between Contacts:
At sea level: 1500VRMS.

At 70,000 feet [21,336 meters]: 325VRMS.

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.

APPLICATIONS

For use with 0.0625" [1.59mm] printed circuit boards requiring an edgeboard type connector on 0.125" [3.17mm] 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. (Ordering Information.)

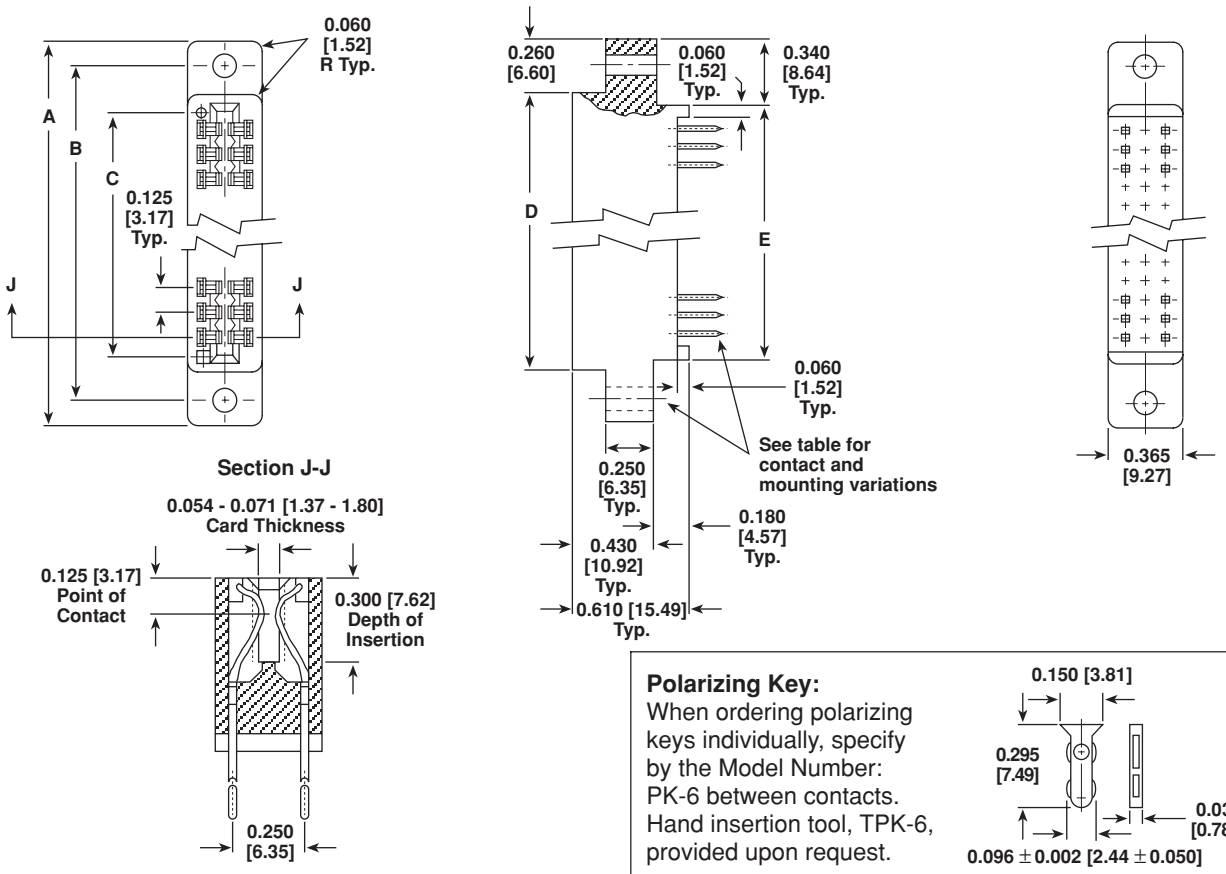
Polarizing Key: Glass reinforced nylon, flame retardant (UL94H-B).

Plating: Gold. (Ordering Information.)

ORDERING INFORMATION

EB6 MODEL	3 BODY MATERIAL	K STANDARD TERMINAL VARIATIONS	40 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, 14, 15, 18, 22, 24, 25, 28, 30, 31, 32, 35, 36, 40, 43, 44, 49 and 50 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-6.

DIMENSIONS in inches [millimeters]



Polarizing Key:
When ordering polarizing keys individually, specify by the Model Number: PK-6 between contacts. Hand insertion tool, TPK-6, provided upon request.

# OF CONTACT POSITIONS PER SIDE	A	B	C	D	E
6	1.555 [39.50]	1.295 [32.89]	0.875 [22.22]	1.035 [26.29]	0.875 [22.22]
10	2.055 [52.20]	1.795 [45.59]	1.375 [34.92]	1.535 [38.99]	1.375 [34.92]
12	2.305 [58.55]	2.045 [51.94]	1.625 [41.28]	1.785 [45.34]	1.625 [41.28]
14	2.555 [64.90]	2.295 [58.29]	1.875 [47.62]	2.035 [51.69]	1.875 [47.62]
15	2.680 [68.07]	2.420 [61.47]	2.000 [50.80]	2.160 [54.86]	2.000 [50.80]
18	3.055 [77.60]	2.795 [70.99]	2.375 [60.32]	2.535 [64.39]	2.375 [60.32]
22	3.555 [90.30]	3.295 [83.69]	2.875 [73.02]	3.035 [77.09]	2.875 [73.02]
24	3.805 [96.65]	3.545 [90.04]	3.125 [79.38]	3.285 [83.44]	3.125 [79.38]
25	3.930 [99.82]	3.670 [93.22]	3.250 [82.55]	3.410 [86.61]	3.250 [82.55]
28	4.305 [109.35]	4.045 [102.74]	3.625 [92.08]	3.785 [96.14]	3.625 [92.08]
30	4.555 [115.70]	4.295 [109.09]	3.875 [98.42]	4.035 [102.49]	3.875 [98.42]
31	4.680 [118.87]	4.420 [112.27]	4.000 [101.60]	4.160 [105.66]	4.000 [101.60]
32	4.805 [122.05]	4.545 [115.44]	4.125 [104.78]	4.285 [108.84]	4.125 [104.78]
35	5.180 [131.57]	4.920 [124.97]	4.500 [114.30]	4.660 [118.36]	4.500 [114.30]
36	5.305 [134.75]	5.045 [128.14]	4.625 [117.48]	4.785 [121.54]	4.625 [117.48]
40	5.805 [147.45]	5.545 [140.84]	5.125 [130.18]	5.285 [134.24]	5.125 [130.18]
43	6.180 [156.97]	5.920 [150.37]	5.500 [139.70]	5.660 [143.76]	5.500 [139.70]
44	6.305 [160.15]	6.045 [153.54]	5.625 [142.88]	5.785 [146.94]	5.625 [142.88]
49	6.930 [176.02]	6.670 [169.42]	6.250 [158.75]	6.410 [162.81]	6.250 [158.75]
50	7.055 [179.20]	6.795 [172.59]	6.375 [161.92]	6.535 [165.99]	6.375 [161.92]

PHYSICAL SPECIFICATIONS

Contact Type: Bifurcated Cantilever Beam.

Number of Contacts: 6, 10, 12, 14, 15, 18, 22, 24, 25, 28, 30, 31, 32, 35, 36, 40, 43, 44, 49 and 50 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: 0.125" [3.17mm] center to center.

Contact Terminal Row Spacing:

Standard - 0.250" [6.35mm] 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].

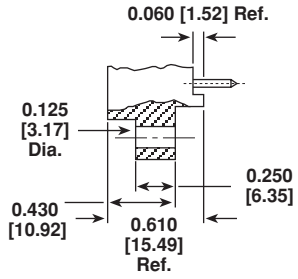
Card Slot Depth: 0.300" [7.62mm].

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

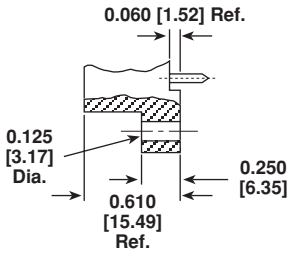
NOTE: High temperature burn-in, edgeboard connectors, with 0.125" [3.17mm] center to center are on page 20 of this catalog.

MOUNTING VARIATIONS in inches [millimeters]

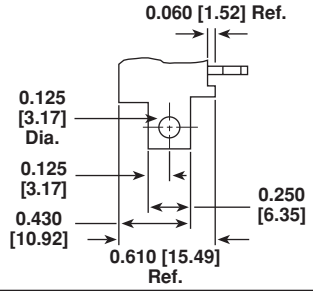
Type "X"
Clearance Hole
Raised Mounting Flange



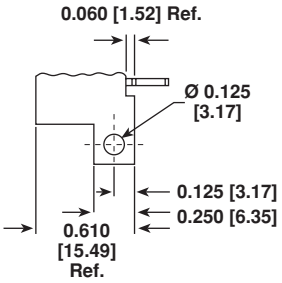
Type "XF"
Clearance Hole
Flush Mounting Flange



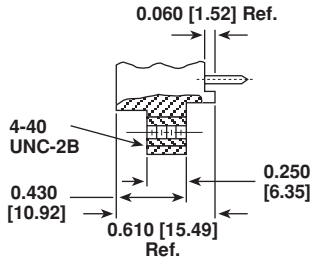
Type "XS"
Right Angle
Mounting Flange



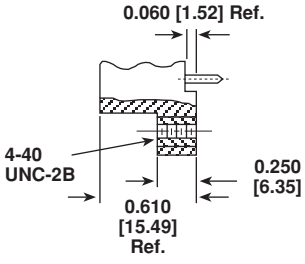
Type "XFS"
Right Angle
Mounting Flange



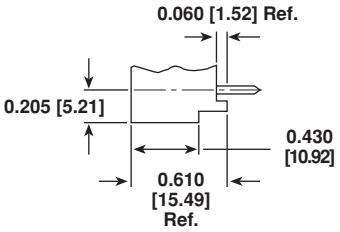
Type "Y"
Threaded Insert
Raised Mounting Flange



Type "YF"
Threaded Insert
Flush Mounting Flange

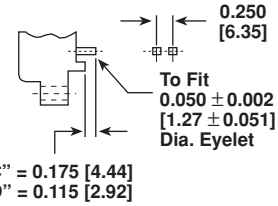


Type "W"
No Mounting Flange

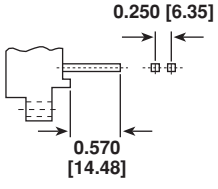


TERMINAL VARIATIONS in inches [millimeters]

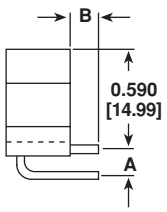
Type "C" and "D"
Solder Dip, Standard
0.025 [0.635] Square Terminals



Type "K"
Wire Wrap™, Standard
0.025 [0.635] Square Terminals



Type "1R", "2R", "3R" and "4R"
Right Angle
0.025 [0.635] Square Terminals



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 ± .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]

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