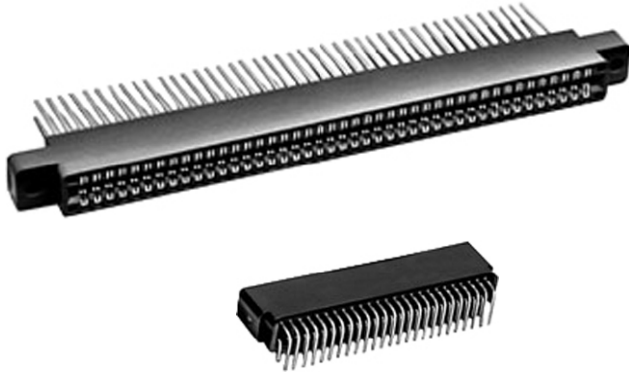


Edgeboard Connectors, Dual Readout, 0.100" (2.54 mm) C-C, Standard and Right Angle Terminals



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:
body materials: glass-filled polyester and glass-filled polyphenylene sulfide
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

ELECTRICAL SPECIFICATIONS

Current Rating: 3 A

Test Voltage Between Contacts:

at sea level: 650 V_{RMS}

At 70 000 feet (21 336 meters): 275 V_{RMS}

Insulation Resistance: 5000 MΩ minimum at 500 V_{DC} 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 1/2 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

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:

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

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

Contacts: phosphor bronze (see Ordering Information)

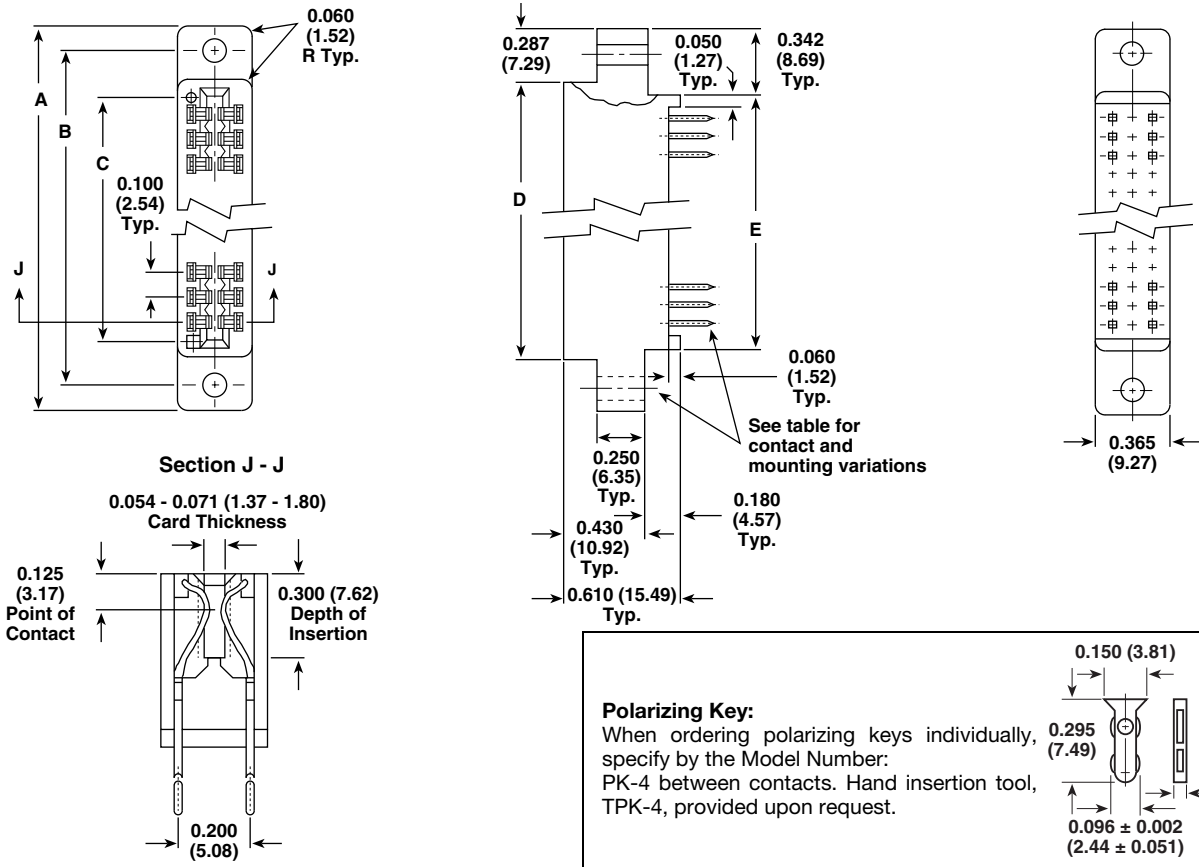
Polarizing Key: glass reinforced nylon, flame retardant (UL 94H-B)

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 |
| | 3 = glass-filled polyester 5 = glass-filled polyphenylene sulfide | 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 | SG = selective gold plating (0.00003" (0.000762 mm) minimum thick) on contact area with gold flash on terminal. SGF = selective gold plating (0.000010" (0.000254 mm) minimum thick) on contact area with gold flash on terminal. All gold plating over 0.00005" (0.00127 mm) 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. |

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) |

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

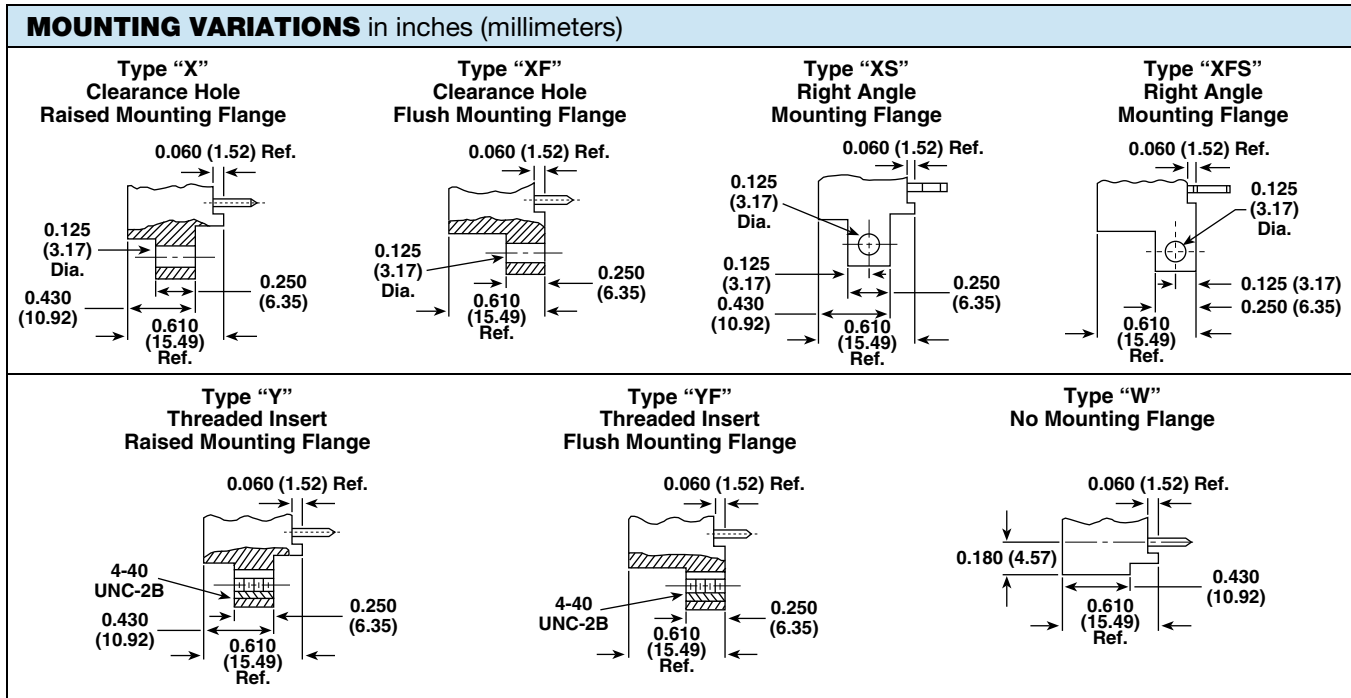
Card Thickness: 0.054" to 0.071" (1.37 mm to 1.80 mm)

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



TERMINAL VARIATIONS in inches (millimeters)

| TYPE | 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 |
|------|--|---------------|--|---|------|--------------|------------------------------|
| | 0.200 (5.08) To Fit 0.050 ± 0.002 (1.27 ± 0.051) Dia. Eyelet | 0.570 (14.48) | | | | | |
| | "C" = 0.175 (4.44) "D" = 0.115 (2.92) | | | | | 0.150 (3.81) | 0.120 ± 0.030 (3.05 ± 0.762) |
| | | | | | | 0.200 (5.08) | 0.120 ± 0.030 (3.05 ± 0.762) |
| | | | | | | 0.150 (3.81) | 0.180 ± 0.030 (4.57 ± 0.762) |
| | | | | | | 0.200 (5.08) | 0.180 ± 0.030 (4.57 ± 0.762) |



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