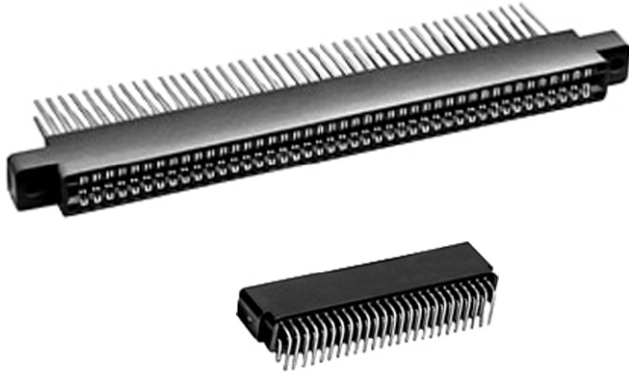


Edgeboard Connectors, Dual Readout, 0.100" (2.54 mm) C-C, Standard and Right Angle Terminals



ELECTRICAL SPECIFICATIONS

Current Rating: 3 A

Test Voltage Between Contacts:

At sea level: 650 V_{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 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. Note: 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			

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Vishay Dale



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	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)

Terminal Type	Terminal Length
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

Additional dimensions for terminal variations:
 - Type "C" and "D": 0.200 (5.08) center-to-center, To Fit 0.050 ± 0.002 (1.27 ± 0.051) Dia. Eyelet
 - Type "K": 0.570 (14.48) terminal length
 - Right Angle: 0.590 (14.99) terminal length, A and B dimensions as per table



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