

# Card Edge

## Series 345/395 Card Edge Connector

.100" (2.54mm) Contact Spacing

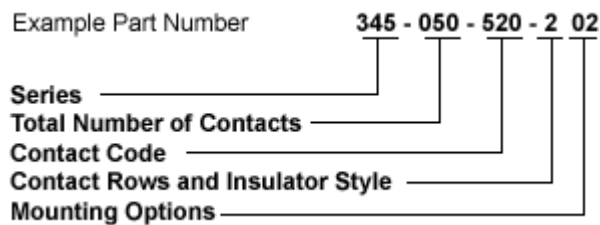
### FEATURES

- CSA Approved and UL Recognized
- .100" (2.54mm) Contact Spacing x .200" (5.08mm) Row Spacing
- Accepts .062" (1.57mm) Nominal Thickness PC Board
- High Profile Insulator Body, .600" (15.24mm)
- Contact Termination Options include PC Tail, Wire Hole, Wire Wrap, 90 Degree & Extender Board Bends
- Single or Dual Row Configurations
- Large Variety of Mounting Options, Flush or Offset Lugs
- Pre-assembled Card Guides Available
- Accepts Between Contact and In-Contact Polarizing Keys
- Automatic Wire Wrap Positioning Holes

### SPECIFICATIONS

- Insulator Material: Thermoplastic Polyester, UL 94V-0
- Contact Material: Copper, Nickel, Tin Alloy CA-725
- Contact Plating: Gold on the Mating Area, Tin-Lead on the Contact Tails, Nickel Underplate
- Current Rating: 3 Amperes Continuous
- Contact Resistance: 10 Milliohms Maximum
- Dielectric Withstanding Voltage: 1200 V AC rms at Sea Level Between Adjacent Contacts
- Insulation Resistance: 5000 Megohms Minimum
- Operating Temperature: -65 to +125 Degrees C
- Insertion Force: 16 oz (4.45 N) Maximum per Contact Pair when Tested with a .070" (1.78mm) Thick Gauge
- Withdrawal Force: 1 oz (0.28 N) Minimum per Contact Pair when Tested with a .054" (1.37mm) Thick Gauge

### ORDERING CODE



| Series | Insulator Colour |
|--------|------------------|
| 345    | Green            |
| 395    | Black            |

| Total Number of Contacts 1 | Contact Rows |
|----------------------------|--------------|
| 005, 006,...072            | Single Row   |
| 010, 012,...144            | Dual Row     |

| Contact Code 2, 3 | Description & Tail Size | Tail Length"G" |
|-------------------|-------------------------|----------------|
|-------------------|-------------------------|----------------|

|     |                                           |                 |
|-----|-------------------------------------------|-----------------|
| 500 | Wire Hole .050" x .025" (1.27mm x 0.64mm) | .260" (6.60mm)  |
| 520 | PC Tail .030" x .018" (0.76mm x 0.46mm)   | .175" (4.45mm)  |
| 521 | PC Tail .025" Square (0.64mm Square)      | .150" (3.81mm)  |
| 523 | PC Tail .025" Square (0.64mm Square)      | .390" (9.91mm)  |
| 524 | PC Tail .018" Square (0.46mm Square)      | .175" (4.45mm)  |
| 540 | Wire Wrap .025" Square (0.64mm Square)    | .560" (14.22mm) |
| 541 | Wire Wrap .025" Square (0.64mm Square)    | .750" (19.05mm) |
| 542 | Wire Wrap .025" Square (0.64mm Square)    | .645" (16.38mm) |
| 544 | Wire Wrap .050" x .025" (1.27mm x 0.64mm) | .750" (19.05mm) |
| 555 | Extender Board Bend (Code 500 Contacts)   |                 |
| 556 | Extender Board Bend (Code 520 Contacts)   |                 |
| 558 | 90 Degree Bend (Code 541 Contacts)        |                 |
| 559 | 90 Degree Bend (Code 541 Contacts)        |                 |
| 560 | Extender Board Bend (Code 523 Contacts)   |                 |

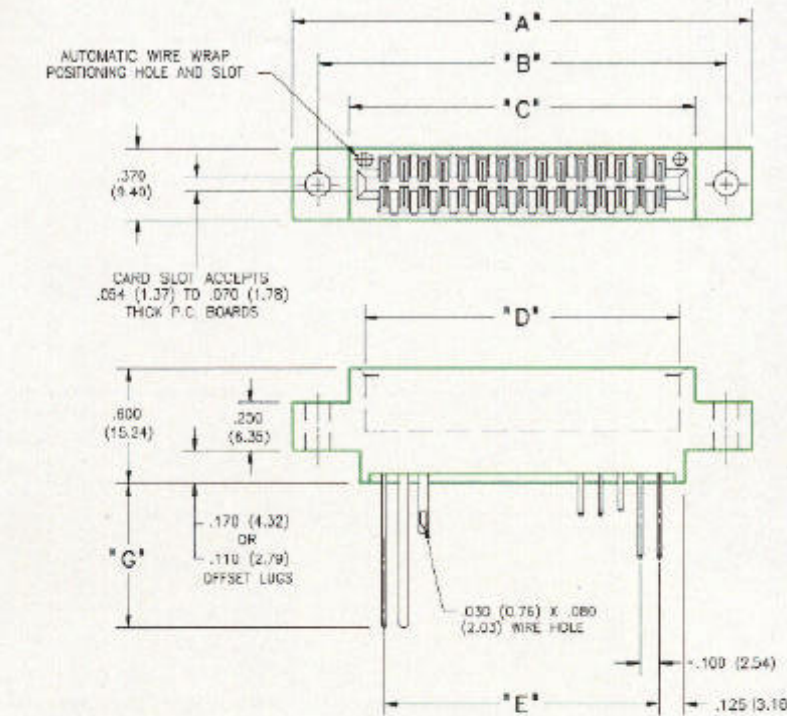
| Contact Rows and Insulator Style | Description                            |
|----------------------------------|----------------------------------------|
| 1                                | Single Row, Flush Mounting Lugs        |
| 2                                | Dual Row, Flush Mounting Lugs          |
| 4                                | Single Row, .110" (2.79mm) Offset Lugs |
| 5                                | Dual Row, .110" (2.79mm) Offset Lugs   |
| 6                                | Single Row, .170" (4.32mm) Offset Lugs |
| 8                                | Dual Row, .170" (4.32mm) Offset Lugs   |

| Mounting Options 4, 5 | Description                               |
|-----------------------|-------------------------------------------|
| 01                    | No Mounting Lugs                          |
| 02                    | .128" (3.25mm) Dia. Mounting Holes        |
| 03                    | .116" (2.95mm) I.D. Floating Eyelets      |
| 04                    | .156" (3.96mm) Dia. Mounting Holes        |
| 07                    | M3-0.5 Metric Threaded Inserts            |
| 08                    | #4-40 Unified Threaded Inserts            |
| 12                    | .128" (3.25mm) Dia. Side Mounting Holes   |
| 58                    | .468" (11.89mm) Offset Card Guides        |
| 78                    | In-line Card Guides 2.750" (69.85mm) Long |
| 88                    | In-Line Card Guides 1.250" (31.75mm) Long |

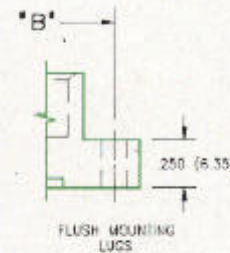
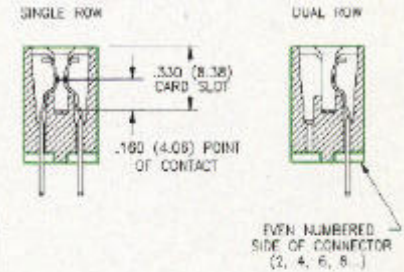
| Number of Contacts |      | "A"   |          | "B"   |          | "C"   |          | "D"   |          | "E"   |          |
|--------------------|------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| Single             | Dual | Inch  | (mm)     | Inch  | (mm)     | Inch  | (mm)     | Inch  | (mm)     | Inch  | (mm)     |
| 5                  | 10   | 1.335 | (33.91)  | 1.075 | (27.31)  | .760  | (19.30)  | .600  | (15.24)  | .400  | (10.16)  |
| 10                 | 20   | 1.835 | (46.61)  | 1.575 | (40.01)  | 1.260 | (32.00)  | 1.100 | (27.94)  | .900  | (22.86)  |
| 13                 | 26   | 2.135 | (54.23)  | 1.875 | (47.63)  | 1.560 | (39.62)  | 1.400 | (35.56)  | 1.200 | (30.48)  |
| 15                 | 30   | 2.335 | (59.31)  | 2.075 | (52.71)  | 1.760 | (44.70)  | 1.600 | (40.64)  | 1.400 | (35.56)  |
| 18                 | 36   | 2.635 | (66.93)  | 2.375 | (60.33)  | 2.060 | (52.32)  | 1.900 | (48.26)  | 1.700 | (43.18)  |
| 22                 | 44   | 3.035 | (77.09)  | 2.775 | (70.49)  | 2.460 | (62.48)  | 2.300 | (58.42)  | 2.100 | (53.34)  |
| 25                 | 50   | 3.335 | (84.71)  | 3.075 | (78.11)  | 2.760 | (70.10)  | 2.600 | (66.04)  | 2.400 | (60.96)  |
| 30                 | 60   | 3.835 | (97.41)  | 3.575 | (90.81)  | 3.260 | (82.80)  | 3.100 | (78.74)  | 2.900 | (73.66)  |
| 31                 | 62   | 3.935 | (99.95)  | 3.675 | (93.35)  | 3.360 | (85.34)  | 3.200 | (81.28)  | 3.000 | (76.20)  |
| 36                 | 72   | 4.435 | (112.65) | 4.175 | (106.05) | 3.860 | (98.04)  | 3.700 | (93.98)  | 3.500 | (88.90)  |
| 43                 | 86   | 5.135 | (130.43) | 4.875 | (123.83) | 4.560 | (115.82) | 4.400 | (111.76) | 4.200 | (106.68) |
| 50                 | 100  | 5.835 | (148.21) | 5.575 | (141.61) | 5.260 | (133.60) | 5.100 | (129.54) | 4.900 | (124.46) |
| 60                 | 120  | 6.835 | (173.61) | 6.575 | (167.01) | 6.260 | (159.00) | 6.100 | (154.94) | 5.900 | (149.86) |
| 72                 | 144  | 8.035 | (204.09) | 7.775 | (197.49) | 7.460 | (189.48) | 7.300 | (185.42) | 7.100 | (180.34) |

# CARD EDGE CONNECTOR SERIES 345/395

Contact Spacing .100" (2.54mm)



## SECTIONS THROUGH CONTACT POSITION



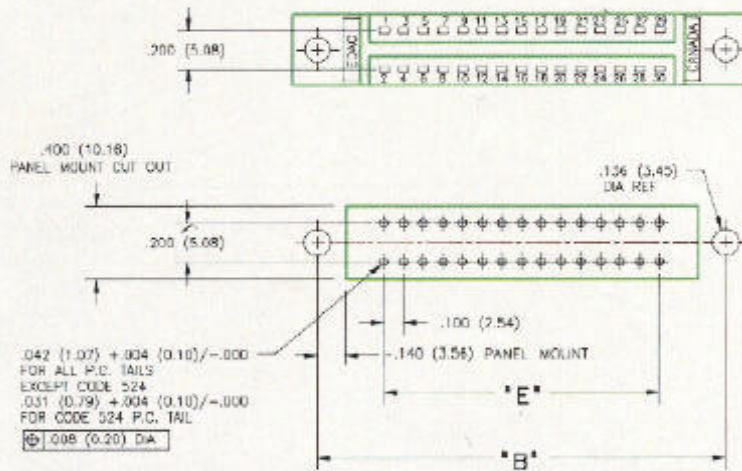
## IN-CONTACT POLARIZING KEY

P/N 345-240-328

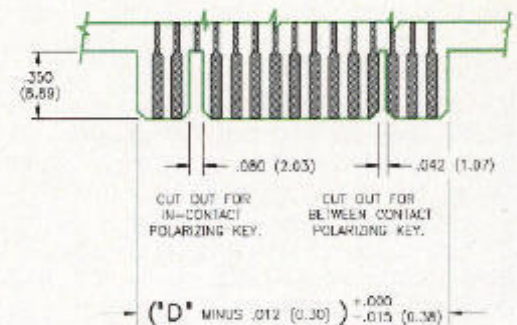


## BETWEEN CONTACT POLARIZING KEY

P/N 345-240-318



CONNECTOR MOUNTING PATTERN



RECOMMENDED DAUGHTER BOARD

| NUMBER OF CONTACTS |      | "A"   |          | "B"   |          | "C"   |          | "D"   |          | "E"   |          |
|--------------------|------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| Single             | Dual | Inch  | (mm)     | Inch  | (mm)     | Inch  | (mm)     | Inch  | (mm)     | Inch  | (mm)     |
| 5                  | 10   | 1.335 | (33.81)  | 1.075 | (27.31)  | .760  | (19.30)  | .600  | (15.24)  | .400  | (10.16)  |
| 10                 | 20   | 1.835 | (46.61)  | 1.575 | (40.01)  | 1.260 | (32.00)  | 1.100 | (27.94)  | .900  | (22.86)  |
| 13                 | 26   | 2.135 | (54.29)  | 1.875 | (47.63)  | 1.560 | (39.62)  | 1.400 | (35.56)  | 1.200 | (30.48)  |
| 16                 | 30   | 2.335 | (59.31)  | 2.075 | (52.71)  | 1.760 | (44.70)  | 1.600 | (40.64)  | 1.400 | (35.56)  |
| 18                 | 36   | 2.635 | (66.93)  | 2.375 | (60.33)  | 2.060 | (52.32)  | 1.900 | (48.26)  | 1.700 | (43.18)  |
| 22                 | 44   | 3.035 | (77.09)  | 2.775 | (70.49)  | 2.460 | (62.48)  | 2.300 | (58.42)  | 2.100 | (53.34)  |
| 25                 | 50   | 3.335 | (84.71)  | 3.075 | (78.11)  | 2.760 | (70.10)  | 2.600 | (66.04)  | 2.400 | (60.96)  |
| 30                 | 60   | 3.835 | (97.41)  | 3.575 | (90.81)  | 3.260 | (82.80)  | 3.100 | (78.74)  | 2.900 | (73.66)  |
| 31                 | 62   | 3.935 | (99.95)  | 3.675 | (93.35)  | 3.360 | (85.34)  | 3.200 | (81.28)  | 3.000 | (76.20)  |
| 36                 | 72   | 4.435 | (112.65) | 4.175 | (106.05) | 3.860 | (98.04)  | 3.700 | (93.98)  | 3.500 | (88.90)  |
| 43                 | 86   | 5.135 | (130.43) | 4.875 | (123.83) | 4.560 | (115.82) | 4.400 | (111.76) | 4.200 | (106.68) |
| 50                 | 100  | 5.835 | (148.21) | 5.575 | (141.81) | 5.260 | (133.80) | 5.100 | (129.54) | 4.900 | (124.46) |
| 60                 | 120  | 6.835 | (173.61) | 6.575 | (167.01) | 6.260 | (159.00) | 6.100 | (154.94) | 5.900 | (149.80) |
| 72                 | 144  | 8.035 | (204.09) | 7.775 | (197.49) | 7.460 | (189.48) | 7.300 | (185.42) | 7.100 | (180.34) |

Dimensions of Other Connector Sizes are Listed on Page 80