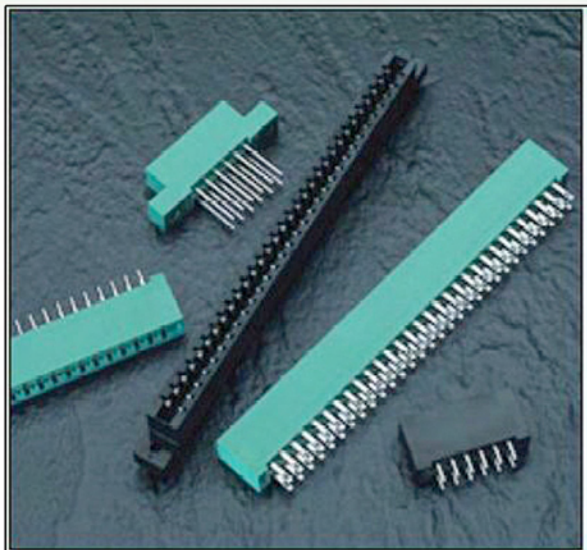




## SERIES 345/395



### FEATURES

UL Recognized

.100 (2.54) Contact Spacing x .200 (5.08) Row Spacing

Accepts .062 (1.57) Nominal Thickness P.C. Board

High Profile Insulator Body, .600 (15.24)

Contact Termination Options include P.C 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 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 +105 Degrees C

Insertion Force: 16 oz (4.45 N) Maximum per Contact Pair when Tested with a .070 (1.78) Thick Gauge

Withdrawal Force: 1 oz (.28 N) Minimum per Contact Pair when Tested with a .054 (1.37) Thick Gauge

### Example Part Number 345 - 050 - 520 - 2 02

Series \_\_\_\_\_  
Total Number of Contacts \_\_\_\_\_  
Contact Code \_\_\_\_\_  
Contact Rows and Insulator Style \_\_\_\_\_  
Mounting Options \_\_\_\_\_

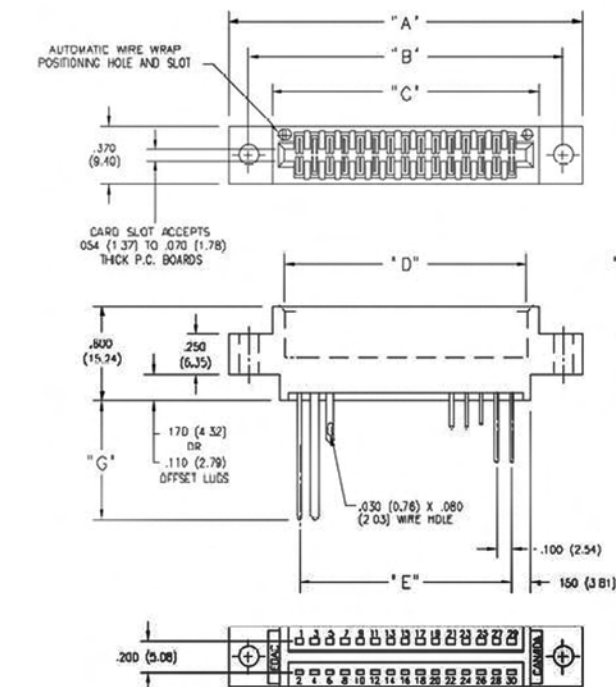
| Series                   | Insulator Colour                        |                 |
|--------------------------|-----------------------------------------|-----------------|
| 345                      | Green                                   |                 |
| 395                      | Black                                   |                 |
| Total Number of Contacts |                                         | Contact Rows    |
| 005, 006, ..., 072       |                                         | Single Row      |
| 010, 012, ..., 144       |                                         | Dual Row        |
| Contact Code             | Description & Tail Size                 | Tail Length "G" |
| 500                      | Wire Hole .050 x .025 (1.27 x 0.64)     | .260 (6.60)     |
| 520                      | P.C. Tail .030 x .018 (0.76 x 0.46)     | .175 (4.45)     |
| 521                      | P.C. Tail .025 Square (0.64 Square)     | .150 (3.81)     |
| 523                      | P.C. Tail .025 Square (0.64 Square)     | .390 (9.91)     |
| 524                      | P.C. Tail .018 Square (0.46 Square)     | .175 (4.45)     |
| 540                      | Wire Wrap .025 Square (0.64 Square)     | .560(14.22)     |
| 541                      | Wire Wrap .025 Square (0.64 Square)     | .750(19.05)     |
| 542                      | Wire Wrap .025 Square (0.64 Square)     | .645(16.38)     |
| 544                      | Wire Wrap .050 x .025 (1.27 x 0.64)     | .750(19.05)     |
| 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 (2.79) Offset Lugs |
| 5                                | Dual Row, .110 (2.79) Offset Lugs   |
| 6                                | Single Row, .170 (4.32) Offset Lugs |
| 8                                | Dual Row, .170 (4.32) Offset Lugs   |

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

### Ordering Code Notes

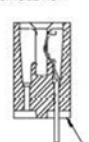
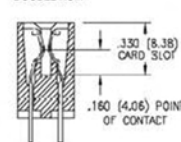
- 1) All connector sizes up to 72 contacts single row / 144 contacts dual row are available upon request
- 2) The 500 contact code is only available in the 345 series. Diallyl Phthalate insulator material will be supplied
- 3) For lugless connectors, code 01 mounting, specify contact rows codes 1 or 2



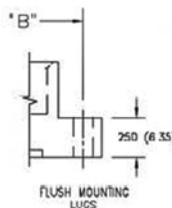
### SECTIONS THROUGH CONTACT POSITION

#### DOUBLE ROW

#### SINGLE ROW



EVEN NUMBERED SIDE OF CONNECTOR (2, 4, 6, 8, ...)



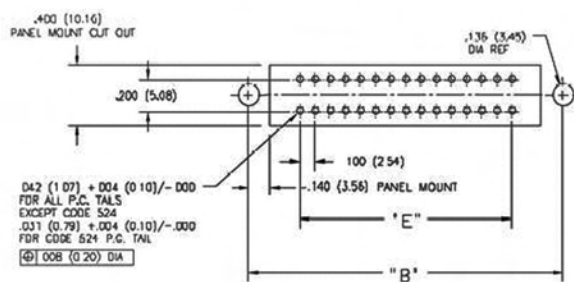
### IN-CONTACT POLARIZING KEY

P/N 345-240-328

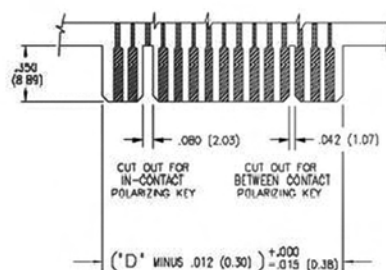


### BETWEEN CONTACT POLARIZING KEY

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 | (33.91)  | 1.075 | (27.31)  | .760  | (19.30)  | .600  | (15.24)  | .400  | (10.16)  |
| 10                 | 20   | 1.835 | (46.61)  | 1.575 | (40.01)  | 1.200 | (30.48)  | 1.100 | (27.94)  | .900  | (22.86)  |
| 12                 | 24   | 2.125 | (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) |

Dimensions of Other Connector Sizes are Listed