



## SERIES 307/357



### FEATURES

UL Recognized  
.156 (3.96) Contact Spacing x .200 (5.08) Row Spacing  
Accepts .062 (1.57) Nominal Thickness P.C. Board  
Low Profile Insulator Body .437 (12.01)

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

Pre-assembled Card Guides Available

Accepts Between Contact & In-Contact Polarizing Keys

### 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: 5 Amperes Continuous

Contact Resistance: 10 Milliohms Maximum

Dielectric Withstanding Voltage: 1800 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

### Ordering Code Notes

1. All connector sizes up to 44 contacts single row / 88 contacts dual row are available upon request
2. For contacts with overall tin plating, change the first digit of the contact code from 5 to 4
3. Single row contacts that read both sides of the daughter board are phosphor bronze CA-510 material with entire surface plated gold over nickel

### Example Part Number 307 - 044 - 520 - 2 02

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

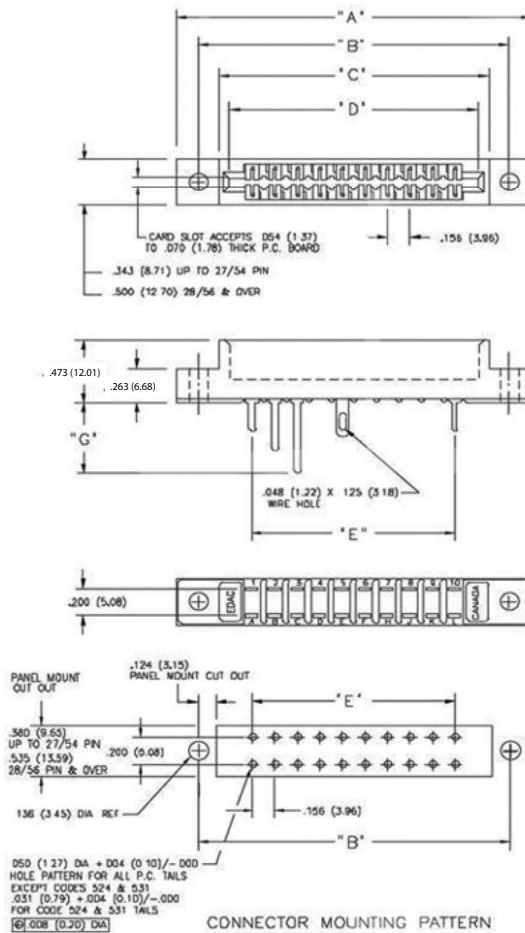
| Series | Insulator Colour |
|--------|------------------|
| 307    | Green            |
| 357    | Black            |

| Total Number of Contacts | Contact Rows |
|--------------------------|--------------|
| 005, 006, ..., 044       |              |
| 012, 014, ..., 188       | Dual Row     |

| Contact Code                                                   | Description & Tail Size                    | Tail Length "G" |
|----------------------------------------------------------------|--------------------------------------------|-----------------|
| <i>Single Row Contacts - Read One Side of Daughter Board</i>   |                                            |                 |
| 505                                                            | Wire Hole .087 x .013 (2.21 x 0.33)        | .282 (7.16)     |
| 525                                                            | P.C. Tail .046 x .013 (1.17 x 0.33)        | .213 (5.41)     |
| 527                                                            | P.C. Tail .046 x .013 (1.17 x 0.33)        | .358 (9.09)     |
| 531                                                            | P.C. Tail .023 x .013 (0.58 x 0.33)        | .213 (5.41)     |
| 545                                                            | Wire Wrap .046 x .013 (1.17 x 0.33)        | .708(17.98)     |
| 547                                                            | Wire Wrap .046 x .013 (1.17 x 0.33)        | .520(13.21)     |
| 558                                                            | 90 Degree Bend (Code 545 Contacts)         |                 |
| 559                                                            | 90 Degree Bend (Code 527 Contacts)         |                 |
| <i>Single Row Contacts - Read Both Sides of Daughter Board</i> |                                            |                 |
| 501                                                            | Wire Hole .089 x .014 (2.29 x 0.36)        | .213 (5.41)     |
| 521                                                            | P.C. Tail .046 x .014 (1.17 x 0.36)        | .213 (5.41)     |
| 541                                                            | Wire Wrap .046 x .014 (1.17 x 0.36)        | .495(12.57)     |
| 553                                                            | 90 Degree Bend (Code 521 Contacts)         |                 |
| 554                                                            | 90 Degree Bend (Code 501 Contacts)         |                 |
| 557                                                            | 90 Degree Bend (Code 541 Contacts)         |                 |
| <i>Dual Row Contacts - Read Both Sides of Daughter Board</i>   |                                            |                 |
| 500                                                            | Wire Hole .087 x .013 (2.21 x 0.33)        | .282 (7.16)     |
| 520                                                            | P.C. Tail .046 x .013 (1.17 x 0.33)        | .213 (5.41)     |
| 522                                                            | P.C. Tail .046 x .013 (1.17 x 0.33)        | .358 (9.09)     |
| 524                                                            | P.C. Tail .023 x .013 (0.58 x 0.33)        | .213 (5.41)     |
| 540                                                            | Wire Wrap .046 x .013 (1.17 x 0.33)        | .708(17.98)     |
| 542                                                            | Wire Wrap .046 x .013 (1.17 x 0.33)        | .520(13.21)     |
| 555                                                            | Extender Board Bend (Code 500 Contacts)    |                 |
| 556                                                            | Extender Board Bend (Code 520 Contacts)    |                 |
| 558                                                            | 90 Degree Bend (Code 522 and 540 Contacts) |                 |
| 559                                                            | 90 Degree Bend (Code 522 and 540 Contacts) |                 |
| 560                                                            | Extender Board Bend (Code 522 Contacts)    |                 |

| Contact Rows | Description |
|--------------|-------------|
| 1            | Single Row  |
| 2            | Dual Row    |

| 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      |
| 68               | .344 (8.74) Offset Card Guides       |
| 78               | In-Line Card Guides                  |



CONNECTOR MOUNTING PATTERN

IN-CONTACT  
POLARIZING KEY

P/N 307-240-328



DUAL ROW  
CONTACTS



BETWEEN CONTACT  
POLARIZING KEY

P/N 306-240-318



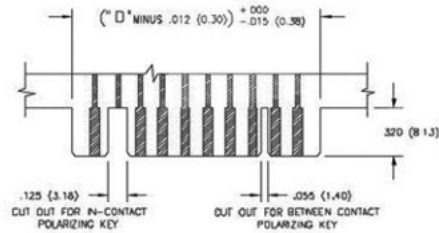
SINGLE ROW  
CONTACTS

READ ONE SIDE  
OF DAUGHTER BOARD



SINGLE ROW  
CONTACTS

READ BOTH SIDES  
OF DAUGHTER BOARD



RECOMMENDED DAUGHTER BOARD

| NUMBER OF CONTACTS |      | "A"   |          | "B"   |          | "C"   |          | "D"   |          | "E"   |          |
|--------------------|------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| Single             | Dual | Inch  | (mm)     | Inch  | (mm)     | Inch  | (mm)     | Inch  | (mm)     | Inch  | (mm)     |
| 6                  | 12   | 1.842 | (46.79)  | 1.532 | (38.91)  | 1.246 | (31.65)  | 1.100 | (27.94)  | .780  | (19.81)  |
| 8                  | 16   | 2.154 | (54.71)  | 1.844 | (46.84)  | 1.558 | (39.57)  | 1.412 | (35.86)  | 1.002 | (27.74)  |
| 10                 | 20   | 2.466 | (62.64)  | 2.156 | (54.76)  | 1.870 | (47.50)  | 1.724 | (43.79)  | 1.404 | (35.66)  |
| 12                 | 24   | 2.778 | (70.56)  | 2.468 | (62.69)  | 2.182 | (55.42)  | 2.036 | (51.71)  | 1.716 | (43.59)  |
| 15                 | 30   | 3.246 | (82.45)  | 2.936 | (74.57)  | 2.650 | (67.31)  | 2.504 | (63.60)  | 2.184 | (55.47)  |
| 18                 | 36   | 3.714 | (94.34)  | 3.404 | (86.46)  | 3.118 | (79.20)  | 2.972 | (75.49)  | 2.652 | (67.36)  |
| 20                 | 40   | 4.026 | (102.26) | 3.716 | (94.39)  | 3.430 | (87.12)  | 3.284 | (83.41)  | 2.964 | (75.29)  |
| 22                 | 44   | 4.338 | (110.19) | 4.028 | (102.31) | 3.742 | (95.05)  | 3.596 | (91.34)  | 3.276 | (83.21)  |
| 25                 | 50   | 4.806 | (122.07) | 4.496 | (114.20) | 4.210 | (106.93) | 4.064 | (103.23) | 3.744 | (95.10)  |
| 28                 | 56   | 5.274 | (133.96) | 4.964 | (126.09) | 4.678 | (118.82) | 4.532 | (115.11) | 4.212 | (106.98) |
| 30                 | 60   | 5.586 | (141.88) | 5.276 | (134.01) | 4.990 | (126.75) | 4.844 | (123.04) | 4.524 | (114.91) |
| 36                 | 72   | 6.522 | (165.66) | 6.212 | (157.78) | 5.906 | (150.52) | 5.760 | (146.81) | 5.460 | (138.68) |
| 43                 | 86   | 7.614 | (193.40) | 7.304 | (185.52) | 7.018 | (178.26) | 6.872 | (174.55) | 6.552 | (166.42) |
| 44                 | 88   | 7.770 | (197.36) | 7.460 | (189.48) | 7.174 | (182.22) | 7.028 | (178.51) | 6.708 | (170.38) |

Dimensions of Other Connector Sizes are Listed