



## 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                  |



Dimensions of Other Connector Sizes are Listed