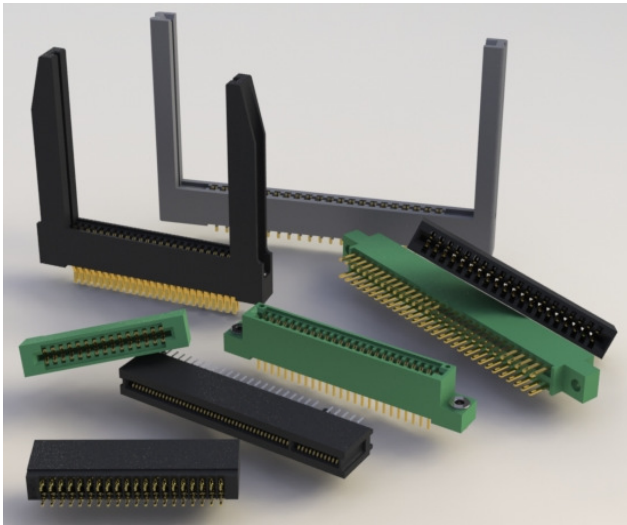




# 737 SERIES



## Card Edge Connector 0.156" (3.96mm) Pitch



### FEATURES:

- UL Recognized
- .156" (3.96mm) Contact spacing x .200" (5.08mm) row spacing
- Accepts .062" (1.57mm) nominal thickness P.C. board
- High profile insulator body, .645" (16.38mm) with edge notch Option
- Contact termination options include P.C. tail, and .025" (0.64mm) square wire wrap
- Press-Fit compliant section for gas tight reliable connection in plated through holes eliminates soldering operations
- Single or dual row configurations
- Accepts between contact and In-Contact polarizing keys (Special features if requested)
- Tools available for insulator and contact removal. Simple "Flat Rock" tooling is used for connector installation.
- RoHS Compliant

### SPECIFICATIONS:

|                               |                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------|
| Insulator Material            | UL 94V-0 Thermoplastic Polyester, Black                                                     |
| Contact Material              | Copper Alloy                                                                                |
| Contact Plating               | 30u" Gold Plating on mating area and Tin Plating on tails with Nickel underplating all over |
| Current Rating                | 3 Ampere                                                                                    |
| Contact Resistance            | 10 milliohms maximum                                                                        |
| Dielectric Withstand Voltage  | 1200VAC rms at sea level between adjacent contacts                                          |
| Insulation Resistance         | 5000 Megohms minimum                                                                        |
| Operating Temperature         | -40°C to +105°C                                                                             |
| Insertion Force               | 16oz (4.45N) maximum per contact pair when tested with .070" (1.78mm) thick gauge           |
| Withdrawal Force              | 1oz (0.28N) minimum per contact pair when tested with .054" (1.37mm) thick gauge            |
| Contact insertion into Hole   | 20 lbs (89 N) Maximum                                                                       |
| Contact Retention in Hole     | 10 lbs (44 N) Maximum                                                                       |
| Re-Insertability in same Hole | 3 Times Minimum                                                                             |

EXAMPLE PART NUMBER: **737-044-520-206**

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

| Contact Code | Description &                    | Contact Point | Tail length "G" |
|--------------|----------------------------------|---------------|-----------------|
| 520          | P.C. Tail                        | Regular Point | .190 (4.83)     |
| 522          | P.C. Tail                        | Regular Point | .375 (9.53)     |
| 525          | P.C. Tail                        | High Point    | .190 (4.83)     |
| 540          | Wire Wrap                        | Regular Point | .560 (14.22)    |
| 541          | Wire Wrap                        | Regular Point | .750 (19.05)    |
| 545          | Wire Wrap                        | High Point    | .560 (14.22)    |
| 560          | Make Before Break (MBB) Contacts |               | .190 (4.83)     |

Series: **737**

| Total Number of Contacts: | Contact Rows |
|---------------------------|--------------|
| 005, 006, . . . . 043     | Single Row   |
| 010, 012, . . . . 086     | Dual Row     |

### Ordering Code Notes:

- 1) All connector sizes up to 43 contacts single row / 86 contacts dual row are available upon request.
- 2) Make-Before-Break switching contacts, assembled in specific contact positions, are available upon request.

### Contact Rows:

106  
206

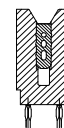
### Description

Single Row  
Dual Row

IN-CONTACT  
POLARIZING KEY  
P/N 745-240-328



BETWEEN CONTACT  
POLARIZING KEY  
P/N 306-240-318



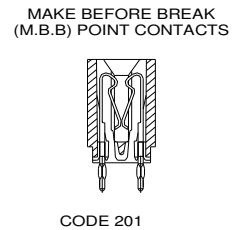
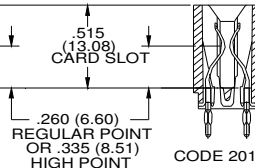
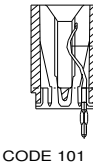
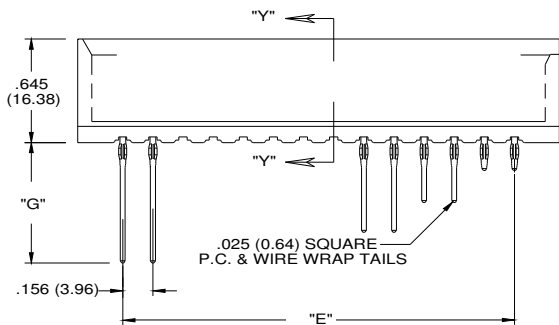
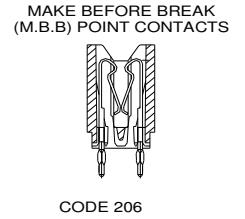
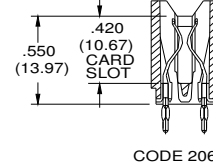
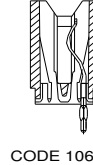
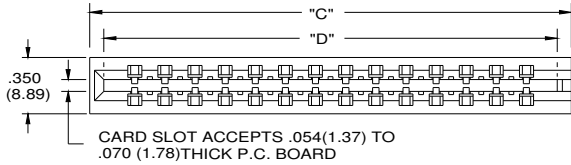


# 737 SERIES

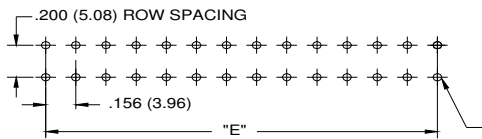


## Card Edge Connector 0.156" (3.96mm) Pitch

### SECTIONS "Y" — "Y" CONTACT ROWS & INSULATOR OPTIONS

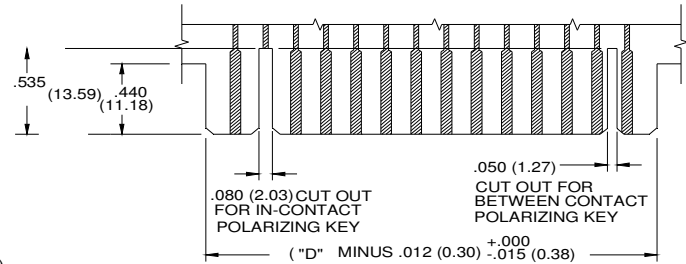


Single Row Versions May Require Backup Springs Depending upon the Application.



.040 (1.02) DIA  $\pm$  .003 (0.08)  
SEE NOTE BELOW  
 $\Phi$  .008 (0.20) DIA

TO OBTAIN OPTIMUM COMPLIANT SECTION PERFORMANCE,  
DRILL HOLES .0453  $\pm$  .001 (1.15  $\pm$  0.03) DIAMETER  
COPPER PLATE .001 (25.4 MICRONS) MINIMUM THICKNESS,  
FOLLOWED BY TIN PLATE TO PROVIDE FINISHED  
HOLES .040  $\pm$  .003 (1.02  $\pm$  0.08) DIAMETER



| NUMBER OF CONTACTS |        | "C"   |        | "D"   |        | "E"   |        |
|--------------------|--------|-------|--------|-------|--------|-------|--------|
| Single             | Double | Inch  | mm     | Inch  | mm     | Inch  | mm     |
| 5                  | 10     | 1.090 | 27.69  | 0.944 | 23.98  | 0.624 | 15.85  |
| 6                  | 12     | 1.246 | 31.65  | 1.100 | 27.94  | 0.780 | 19.81  |
| 10                 | 20     | 1.870 | 47.50  | 1.724 | 43.79  | 1.404 | 35.66  |
| 15                 | 30     | 2.650 | 67.31  | 2.504 | 63.60  | 2.184 | 55.47  |
| 18                 | 36     | 3.118 | 79.20  | 2.972 | 75.49  | 2.652 | 67.36  |
| 20                 | 40     | 3.430 | 87.12  | 3.284 | 83.41  | 2.964 | 75.29  |
| 22                 | 44     | 3.742 | 95.05  | 3.596 | 91.34  | 3.276 | 83.21  |
| 25                 | 50     | 4.210 | 106.93 | 4.064 | 103.23 | 3.744 | 95.10  |
| 28                 | 56     | 4.678 | 118.82 | 4.532 | 115.11 | 4.212 | 106.98 |
| 30                 | 60     | 4.990 | 126.75 | 4.844 | 123.04 | 4.524 | 114.91 |
| 31                 | 62     | 5.146 | 130.71 | 5.000 | 127.00 | 4.680 | 118.87 |
| 33                 | 66     | 5.458 | 138.63 | 5.312 | 134.92 | 4.992 | 126.80 |
| 36                 | 72     | 5.926 | 150.52 | 5.780 | 146.81 | 5.460 | 138.68 |
| 43                 | 86     | 7.018 | 178.26 | 6.872 | 174.55 | 6.552 | 166.42 |