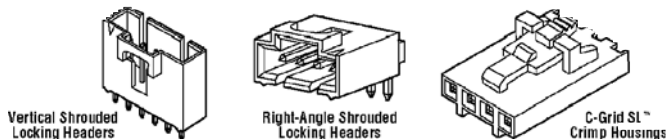


## C-Grid SL™ Crimp Headers and Housings



## C-GRID SL™ Headers

Surface mount compatible. Single-row. **Available:** Vertical or right-angle. **Rating:** UL94V-0. **Pins:** Gold plated in contact area and tin-lead plated in solder area. **Current:** 3 A. **Temperature:** -40° to +125°C.

### Vertical Shrouded Locking Headers

| Stock No. | Mfr.'s Type | Pos. | PER PK./10 |       |       |       |
|-----------|-------------|------|------------|-------|-------|-------|
|           |             |      | 1-9        | 10-24 | 25-49 | 50-Up |
| 863-9967  | 70543-0001  | 2    | 6.37       | 5.73  | 4.78  | 4.09  |
| 863-9968  | 70543-0002  | 3    | 7.17       | 6.32  | 5.75  | 5.27  |
| 863-9982  | 70543-0003  | 4    | 7.84       | 7.06  | 6.42  | 5.88  |
| 863-9971  | 70543-0004  | 5    | 7.61       | 6.94  | 6.34  | 5.44  |
| 863-9972  | 70543-0005  | 6    | 8.22       | 7.47  | 6.85  | 5.87  |
| 863-9959  | 70543-0006  | 7    | 8.81       | 8.01  | 7.34  | 6.29  |
| 863-9982  | 70543-0007  | 8    | 9.45       | 8.59  | 7.87  | 6.75  |
| 863-9983  | 70543-0008  | 9    | 10.06      | 9.14  | 8.38  | 7.18  |
| 863-9984  | 70543-0009  | 10   | 10.69      | 9.72  | 8.91  | 7.64  |

### Right-Angle Shrouded Locking Headers

|          |            |    |       |      |      |      |
|----------|------------|----|-------|------|------|------|
| 863-9952 | 70553-0001 | 2  | 5.73  | 5.21 | 4.78 | 4.09 |
| 863-9953 | 70553-0004 | 5  | 7.61  | 6.92 | 6.34 | 5.44 |
| 863-9954 | 70553-0005 | 6  | 8.22  | 7.47 | 6.85 | 5.87 |
| 863-9955 | 70553-0006 | 7  | 8.81  | 8.01 | 7.34 | 6.29 |
| 863-9956 | 70553-0007 | 8  | 9.45  | 8.59 | 7.87 | 6.75 |
| 863-9957 | 70553-0008 | 9  | 10.06 | 9.14 | 8.38 | 7.18 |
| 863-9958 | 70553-0009 | 10 | 10.69 | 9.72 | 8.91 | 7.64 |

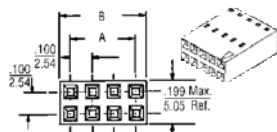
## C-Grid SL™ Crimp Housings

Single-row 0.100" center housings are designed for wire-to-board applications. Anti-entanglement/overstress ribs prevent discrete wires from catching under latch during harness manufacturing and storage. **Housing:** Black glass-filled polyester. **Rating:** UL94V-0. **Temperature:** -40° to +120°C.

|          |            |    |      |      |      |      |
|----------|------------|----|------|------|------|------|
| 863-3258 | 50-57-9402 | 2  | 2.55 | 2.32 | 2.13 | 1.82 |
| 863-3257 | 50-57-9403 | 3  | 4.89 | 3.91 | 3.35 | 3.13 |
| 863-3259 | 50-57-9405 | 5  | 5.08 | 4.62 | 4.23 | 3.63 |
| 863-3254 | 50-57-9406 | 6  | 5.41 | 4.91 | 4.50 | 3.86 |
| 863-3256 | 50-57-9408 | 8  | 5.90 | 5.36 | 4.91 | 4.21 |
| 863-3261 | 50-57-9409 | 9  | 6.53 | 5.93 | 5.44 | 4.66 |
| 863-3262 | 50-57-9410 | 10 | 6.87 | 6.25 | 5.73 | 4.91 |

## C-Grid SL™ Hand Crimpers

|                                       |             |
|---------------------------------------|-------------|
| 863-0494. 11-01-0208. 22-24 AWG ..... | EACH 244.52 |
| 863-0495. 11-01-0209. 24-30 AWG ..... | EACH 246.84 |



## Dual Row Crimp Connector Housing

- End-to-End and Side-by-Side Stackable on 0.100" Grid

| Stock No. | Mfr.'s Type | No. of Circuits | Dimensions |       | PER PK./10 |       |
|-----------|-------------|-----------------|------------|-------|------------|-------|
|           |             |                 | A          | B     | 1-4        | 5-9   |
| 863-3176  | 22-55-2041  | 4               | 0.100      | 0.199 | 11.17      | 10.06 |
| 863-3175  | 22-55-2061  | 6               | 0.200      | 0.299 | 11.76      | 10.59 |
| 863-3180  | 22-55-2081  | 8               | 0.200      | 0.399 | 12.29      | 11.06 |
| 863-3185  | 22-55-2101  | 10              | 0.400      | 0.499 | 12.87      | 11.59 |
| 863-3177  | 22-55-2121  | 12              | 0.500      | 0.599 | 13.42      | 12.08 |
| 863-3190  | 22-55-2161  | 16              | 0.700      | 0.799 | 14.48      | 13.04 |
| 863-3178  | 22-55-2141  | 14              | 0.600      | 0.699 | 13.99      | 12.59 |
| 863-3179  | 22-55-2181  | 18              | 0.800      | 0.899 | 15.03      | 13.53 |
| 863-3195  | 22-55-2201  | 20              | 0.900      | 0.999 | 25.32      | 24.59 |
| 863-3181  | 22-55-2221  | 22              | 1.000      | 1.099 | 16.14      | 14.59 |
| 863-3182  | 22-55-2241  | 24              | 1.100      | 1.199 | 16.71      | 15.03 |
| 863-3200  | 22-55-2261  | 26              | 1.200      | 1.299 | 29.10      | 26.19 |
| 863-3183  | 22-55-2301  | 30              | 1.400      | 1.499 | 18.36      | 16.52 |
| 863-3215  | 22-55-2401  | 40              | 1.900      | 1.999 | 35.59      | 32.03 |
| 863-3184  | 22-55-2501  | 50              | 2.400      | 2.499 | 23.82      | 21.44 |

## Single Row Crimp Connector Housing

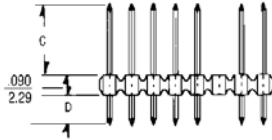


- **"A" Version, Non-Polarized, End-to-End and Side-by-Side Stackable**

| Stock No. | Mfr.'s Type | No. of Circuits | PER PK./10 |      |
|-----------|-------------|-----------------|------------|------|
|           |             |                 | 1-4        | 5-9  |
| 863-3250  | 50-57-9002  | 2               | 4.01       | 3.61 |
| 863-3255  | 50-57-9003  | 3               | 5.19       | 4.67 |
| 863-3260  | 50-57-9004  | 4               | 5.42       | 4.88 |
| 863-3265  | 50-57-9005  | 5               | 5.64       | 5.08 |
| 863-3263  | 50-57-9006  | 6               | 5.64       | 5.08 |
| 863-3270  | 50-57-9008  | 8               | 4.81       | 4.33 |
| 863-3264  | 50-57-9009  | 9               | 4.81       | 4.33 |
| 863-3275  | 50-57-9010  | 10              | 5.42       | 4.88 |
| 863-3280  | 50-57-9014  | 14              | 7.41       | 6.67 |

## ***C-Grid SL™ Crimp Headers, Housings and Terminals***

## Dual Row Straight Pin Breakaway Headers



- ▶ Stackable Side-to-Side and End-to-End (on Unbroken Edges)
- ▶ Easy Breakaway to Smaller Sizes
- ▶ Standoffs Facilitate Post Solder Cleaning
- ▶ Drawn 0.025" Square Wire Provides 4-Sided Smooth Surface for Quality Interface

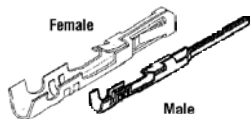
Mates with female connectors on 0.100" grid. **Single and Dual Row PCB Connectors.** e.g. 70192, 7990. **Single and Dual Row IDT Connectors.** e.g. 70400-A, 70451-A. **Single and Dual Row Crimp Connectors.** e.g. 70068-A, 70450-A. **Ribbon Cable Connectors.** e.g. 40312. **Flat Flexible Connectors.** e.g. 70430-A. **40556 Shunts.** e.g. 7859, 90058.

**0.100" — Dimension C = 0.240"**

| Stock No. | Mfr.'s Type | No. of Circuits | Dimension (In.) | EACH |       |         |
|-----------|-------------|-----------------|-----------------|------|-------|---------|
|           |             |                 | D               | 1-49 | 50-99 | 100-249 |
| 863-3071  | 10-89-1041  | 4               | 0.110           | .66  | .59   | .49     |
| 863-3075  | 10-89-1061  | 6               | 0.110           | .85  | .77   | .64     |
| 863-3080  | 10-89-1081  | 8               | 0.110           | .28  | .26   | .23     |
| 863-3085  | 10-89-1101  | 10              | 0.110           | 1.08 | 1.08  | .90     |
| 863-3072  | 10-89-1121  | 12              | 0.110           | 1.43 | 1.28  | 1.07    |
| 863-3073  | 10-89-1141  | 14              | 0.110           | 1.59 | 1.43  | 1.20    |
| 863-3090  | 10-89-1161  | 16              | 0.110           | 1.74 | 1.57  | 1.31    |
| 863-3074  | 10-89-1181  | 18              | 0.110           | 1.98 | 1.78  | 1.49    |
| 863-3095  | 10-89-1201  | 20              | 0.110           | 2.09 | 1.88  | 1.57    |
| 863-3076  | 10-89-1221  | 22              | 0.110           | 2.40 | 2.16  | 1.80    |
| 863-3077  | 10-89-1241  | 24              | 0.110           | 2.55 | 2.29  | 1.91    |
| 863-3100  | 10-89-1261  | 26              | 0.110           | 2.69 | 2.42  | 2.02    |
| 863-3105  | 10-89-1301  | 30              | 0.110           | 3.31 | 2.98  | 2.48    |
| 863-3110  | 10-89-1341  | 34              | 0.110           | 3.60 | 3.24  | 2.70    |
| 863-3115  | 10-89-1401  | 40              | 0.110           | 4.03 | 3.63  | 3.02    |
| 863-3120  | 10-89-1501  | 50              | 0.110           | 5.74 | 5.17  | 4.31    |

**0.100" — Dimension C = 0.320"**

|                 |            |    |       |             |             |             |
|-----------------|------------|----|-------|-------------|-------------|-------------|
| <b>863-3130</b> | 10-89-1083 | 8  | 0.110 | <b>1.08</b> | <b>.97</b>  | <b>.81</b>  |
| <b>863-3135</b> | 10-89-1103 | 10 | 0.110 | <b>1.26</b> | <b>1.14</b> | <b>.95</b>  |
| <b>863-3140</b> | 10-89-1163 | 16 | 0.110 | <b>1.82</b> | <b>1.64</b> | <b>1.37</b> |
| <b>863-3145</b> | 10-89-1203 | 20 | 0.110 | <b>2.20</b> | <b>1.98</b> | <b>1.65</b> |
| <b>863-3150</b> | 10-89-1263 | 26 | 0.110 | <b>2.82</b> | <b>2.54</b> | <b>2.12</b> |
| <b>863-3155</b> | 10-89-1303 | 30 | 0.110 | <b>3.40</b> | <b>3.13</b> | <b>2.61</b> |
| <b>863-3160</b> | 10-89-1343 | 34 | 0.110 | <b>4.24</b> | <b>3.81</b> | <b>2.84</b> |
| <b>863-3165</b> | 10-89-1403 | 40 | 0.110 | <b>4.24</b> | <b>3.81</b> | <b>3.18</b> |
| <b>863-3170</b> | 10-89-1503 | 50 | 0.110 | <b>6.03</b> | <b>5.43</b> | <b>4.52</b> |



## Crimp Terminals and Polarization Pin

- ▶ For Single and Dual Crimp Connector Housings
- ▶ Terminals Accommodate Wire Ranges 22 and 24, 24-30, and 32-36
- ▶ Dual Beam, Fully Enclosed Box Contact with Locking Lance
- ▶ Mates with 0.100" Center Single or Dual-Row Headers or 0.025" Pins

**Female**

| Stock No. | Mtr.'s Type | Wire Range | Plating | Insulation Max. OD | PER PK./100 |
|-----------|-------------|------------|---------|--------------------|-------------|
| 863-9969  | 16-02-0102  | 22-24      | 3       | 0.064              | 10.30       |
| 863-3225  | 16-02-0104  | 22-24      | 1       | 0.064              | 12.47       |
| 863-3226  | 16-02-0103  | 22-24      | 2       | 0.064              | 12.47       |
| 863-3230  | 16-02-0096  | 24-30      | 3       | 0.060              | 5.49        |
| 863-3235  | 16-02-0097  | 24-30      | 2       | 0.060              | 9.29        |
| 863-3240  | 16-02-0098  | 24-30      | 1       | 0.060              | 12.47       |

## Male

|                 |            |       |   |       |              |
|-----------------|------------|-------|---|-------|--------------|
| <b>863-0106</b> | 16-02-0114 | 22-24 | 3 | 0.064 | <b>6.57</b>  |
| <b>863-0109</b> | 16-02-0108 | 24-30 | 3 | 0.060 | <b>5.89</b>  |
| <b>863-0110</b> | 16-02-0115 | 22-24 | 2 | 0.064 | <b>10.88</b> |
| <b>863-0113</b> | 16-02-0109 | 24-30 | 2 | 0.060 | <b>10.88</b> |

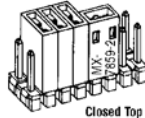
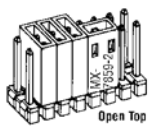
1. 30  $\mu$ m min. gold in select area over 50  $\mu$ m min. Nickel overall with 75  $\mu$ m Tin/Lead in select area. 2. 15  $\mu$ m min. Gold in select area over 50  $\mu$ m min. Nickel overall with 75  $\mu$ m min. Tin/Lead in select area. 3. 150  $\mu$ m Tin/Lead over 50  $\mu$ m Nickel overall.

### Polarization Pin (Universal)

|                                  |            |     |
|----------------------------------|------------|-----|
| 863-3245. Model 15-04-0292 ..... | PER PK./10 | .93 |
|----------------------------------|------------|-----|

## Two Circuit Shunt or Jumper

- ▶ **Mates with 0.100" Grid Male Connectors: Dual or Single Row Headers** — e.g. 8624 and 70343, 0.025" Square and Round Wire Pins — e.g. 4168
- ▶  **Easily Applied** — No Soldering
- ▶ **Reliable** — No Accidental Disconnects
- ▶ **Low Cost Alternative to DIP Switches**
- ▶ **Increases Current Flow and Decreases Resistance vs. DIP Switches**
- ▶ **Dual Beam Terminals: 2 Points of Contact Per Pin**
- ▶ **Open and Closed Top Versions**
- ▶ **Closed Top Prevents Upside Down Mating**
- ▶ **Stackable End-to-End and Side-to-Side**



**Specifications.** **Terminal Material:** Phosphor Bronze. **Housing:** Glass filled polyester. U.L. recognized 94V-0. **Contact Resistance:** 15 milliohms maximum (gold). **Current Rating:** 2 amps at 30°C rise over ambient.

| Rating: 2 amps at 30°C rise over ambient.                 |  | Closed Top      |
|-----------------------------------------------------------|--|-----------------|
| 863-3285. 15-29-1024. Open top. 15 µ gold plating .....   |  | PER PK./10 2.99 |
| 863-3290. 15-29-1025. Closed top. 15 µ gold plating ..... |  | PER PK./10 2.99 |
| 863-3295. 15-38-1024. Open top. 200 µ tin plating .....   |  | PER PK./10 1.93 |