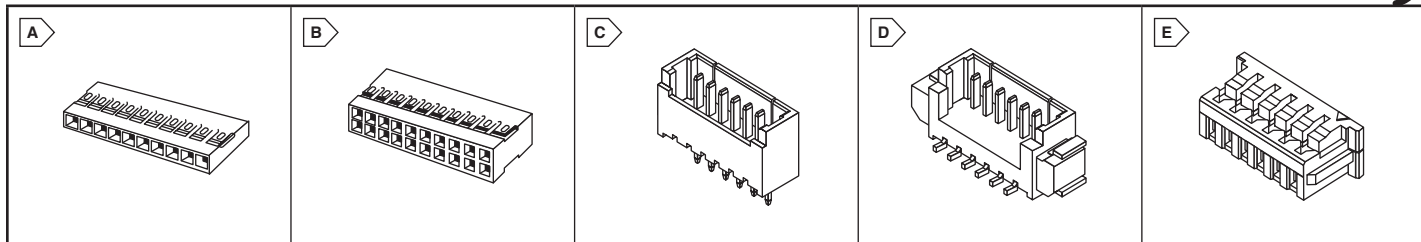


# FCI Wire-to-Board Connectors



## MINI-LATCH™ HOUSINGS

### Features:

- Made of modified polyphenylene oxide
- Rated UL94V-1
- Color: black
- Insulation resistance: 1 x 10<sup>10</sup>MQ min.
- Temperature range: -40°C to +105°C
- .100" x .100" (2.54mm x 2.54mm) centers
- Mates with .100" vertical latching system
- Withstanding voltage: 100Vrms at sea level
- Latching force: 6.5lbs. min. per position
- Optional polarization plug
- RoHS compliant per FCI documentation



RoHS Compliant

| MOUSER STOCK NO.  | FCI Part No. | Fig. | No. of Positions | Length (In.) | Price Each |      |      |      |
|-------------------|--------------|------|------------------|--------------|------------|------|------|------|
|                   |              |      |                  |              | 1          | 25   | 100  | 250  |
| <b>Single Row</b> |              |      |                  |              |            |      |      |      |
| 649-65039-036LF   | 65039-036LF  | A    | 1                | 0.1          | .31        | .30  | .29  | .285 |
| 649-65039-035LF   | 65039-035LF  | A    | 2                | 0.2          | .37        | .36  | .333 | .327 |
| 649-65039-034LF   | 65039-034LF  | A    | 3                | 0.3          | .42        | .41  | .39  | .378 |
| 649-65039-033LF   | 65039-033LF  | A    | 4                | 0.4          | .45        | .44  | .419 | .403 |
| 649-65039-032LF   | 65039-032LF  | A    | 5                | 0.5          | .53        | .51  | .483 | .461 |
| 649-65039-031LF   | 65039-031LF  | A    | 6                | 0.6          | .62        | .59  | .548 | .526 |
| 649-65039-030LF   | 65039-030LF  | A    | 7                | 0.7          | .58        | .54  | .505 | .494 |
| 649-65039-029LF   | 65039-029LF  | A    | 8                | 0.8          | .67        | .64  | .623 | .585 |
| 649-65039-027LF   | 65039-027LF  | A    | 10               | 1.0          | .77        | .74  | .701 | .66  |
| 649-65039-025LF   | 65039-025LF  | A    | 12               | 1.2          | .94        | .92  | .785 | .742 |
| 649-65039-023LF   | 65039-023LF  | A    | 14               | 1.4          | 1.20       | 1.10 | 1.00 | .947 |
| 649-65039-012LF   | 65039-012LF  | A    | 25               | 2.5          | 1.99       | 1.82 | 1.66 | 1.56 |
| 649-65039-001LF   | 65039-001LF  | A    | 36               | 3.6          | 2.35       | 2.09 | 1.81 | 1.73 |

| <b>Polarized Single Row</b> |              |      |                  |              |      |      |      |      |
|-----------------------------|--------------|------|------------------|--------------|------|------|------|------|
| MOUSER STOCK NO.            | FCI Part No. | Fig. | No. of Positions | Length (In.) | 1    | 25   | 100  | 250  |
| 649-78211-003LF             | 78211-003LF  | A    | 3                | 0.3          | .61  | .48  | .414 | .402 |
| 649-78211-004LF             | 78211-004LF  | A    | 4                | 0.4          | .64  | .61  | .559 | .537 |
| 649-78211-005LF             | 78211-005LF  | A    | 5                | 0.5          | .77  | .75  | .709 | .671 |
| 649-78211-006LF             | 78211-006LF  | A    | 6                | 0.6          | 1.36 | 1.34 | 1.03 | .876 |
| 649-78211-007LF             | 78211-007LF  | A    | 7                | 0.7          | .98  | .92  | .874 | .828 |
| 649-78211-008LF             | 78211-008LF  | A    | 8                | 0.8          | .84  | .80  | .774 | .725 |
| 649-78211-012LF             | 78211-012LF  | A    | 12               | 1.2          | 1.20 | 1.15 | 1.04 | .98  |
| 649-78211-014LF             | 78211-014LF  | A    | 14               | 1.4          | 2.09 | 1.75 | 1.39 | 1.33 |

| <b>Double Row</b> |              |      |                  |              |      |      |      |      |
|-------------------|--------------|------|------------------|--------------|------|------|------|------|
| MOUSER STOCK NO.  | FCI Part No. | Fig. | No. of Positions | Length (In.) | 1    | 25   | 100  | 250  |
| 649-65043-035LF   | 65043-035LF  | B    | 4                | 0.2          | .64  | .62  | .585 | .556 |
| 649-65043-034LF   | 65043-034LF  | B    | 6                | 0.3          | .62  | .59  | .548 | .526 |
| 649-65043-033LF   | 65043-033LF  | B    | 8                | 0.4          | .75  | .72  | .688 | .65  |
| 649-65043-032LF   | 65043-032LF  | B    | 10               | 0.5          | 1.16 | 1.04 | .885 | .847 |
| 649-65043-031LF   | 65043-031LF  | B    | 12               | 0.6          | .24  | .23  | .226 | .22  |
| 649-65043-030LF   | 65043-030LF  | B    | 14               | 0.7          | 1.49 | 1.41 | 1.28 | 1.20 |
| 649-65043-029LF   | 65043-029LF  | B    | 16               | 0.8          | 1.41 | 1.30 | 1.19 | 1.11 |
| 649-65043-028LF   | 65043-028LF  | B    | 18               | 0.9          | 1.81 | 1.66 | 1.52 | 1.42 |
| 649-65043-027LF   | 65043-027LF  | B    | 20               | 1.0          | 1.90 | 1.59 | 1.26 | 1.22 |
| 649-65043-025LF   | 65043-025LF  | B    | 24               | 1.2          | 2.11 | 2.00 | 1.78 | 1.67 |
| 649-65043-024LF   | 65043-024LF  | B    | 26               | 1.3          | 2.21 | 2.10 | 1.88 | 1.77 |
| 649-65043-022LF   | 65043-022LF  | B    | 30               | 1.5          | 2.52 | 2.39 | 2.06 | 1.97 |
| 649-65043-020LF   | 65043-020LF  | B    | 34               | 1.7          | 2.20 | 2.07 | 1.82 | 1.75 |
| 649-65043-017LF   | 65043-017LF  | B    | 40               | 2.0          | 2.57 | 2.38 | 2.07 | 1.99 |
| 649-65043-012LF   | 65043-012LF  | B    | 50               | 2.5          | 2.73 | 2.52 | 2.22 | 2.09 |
| 649-65043-007LF   | 65043-007LF  | B    | 60               | 3.0          | 3.54 | 3.18 | 2.89 | 2.72 |
| 649-65043-005LF   | 65043-005LF  | B    | 64               | 3.2          | 3.67 | 3.28 | 2.92 | 2.81 |
| 649-65043-001LF   | 65043-001LF  | B    | 72               | 3.6          | 3.43 | 3.08 | 2.79 | 2.64 |

| <b>Polarized Double Row</b> |              |      |                  |              |      |      |      |      |
|-----------------------------|--------------|------|------------------|--------------|------|------|------|------|
| MOUSER STOCK NO.            | FCI Part No. | Fig. | No. of Positions | Length (In.) | 1    | 25   | 100  | 250  |
| 649-69176-006LF             | 69176-006LF  | B    | 6                | 0.3          | 1.18 | 1.08 | .99  | .936 |
| 649-65846-015LF             | 65846-015LF  | B    | 6                | 0.3          | 1.19 | 1.09 | .99  | .936 |
| 649-69176-008LF             | 69176-008LF  | B    | 8                | 0.4          | 1.39 | 1.27 | 1.16 | 1.08 |
| 649-65846-016LF             | 65846-016LF  | B    | 8                | 0.4          | 1.13 | 1.10 | 1.05 | .998 |
| 649-65846-010LF             | 65846-010LF  | B    | 10               | 0.5          | 1.43 | 1.31 | 1.20 | 1.12 |
| 649-69176-010LF             | 69176-010LF  | B    | 10               | 0.5          | 1.51 | 1.29 | 1.11 | 1.07 |
| 649-69176-012LF             | 69176-012LF  | B    | 12               | 0.6          | 1.65 | 1.59 | 1.56 | 1.54 |
| 649-65846-017LF             | 65846-017LF  | B    | 12               | 0.6          | 1.49 | 1.29 | 1.14 | 1.07 |
| 649-65846-007LF             | 65846-007LF  | B    | 14               | 0.7          | 1.69 | 1.62 | 1.56 | 1.50 |
| 649-69176-014LF             | 69176-014LF  | B    | 14               | 0.7          | 1.90 | 1.74 | 1.59 | 1.49 |
| 649-65846-011LF             | 65846-011LF  | B    | 16               | 0.8          | 1.85 | 1.59 | 1.42 | 1.39 |
| 649-69176-016LF             | 69176-016LF  | B    | 16               | 0.8          | 2.21 | 2.03 | 1.85 | 1.73 |
| 649-65846-008LF             | 65846-008LF  | B    | 18               | 0.9          | 2.08 | 1.72 | 1.52 | 1.45 |
| 649-69176-020LF             | 69176-020LF  | B    | 20               | 1.0          | 2.21 | 2.10 | 1.88 | 1.77 |
| 649-65846-006LF             | 65846-006LF  | B    | 20               | 1.0          | 2.07 | 1.76 | 1.58 | 1.53 |
| 649-65846-001LF             | 65846-001LF  | B    | 24               | 1.2          | 2.53 | 2.17 | 1.89 | 1.80 |
| 649-69176-028LF             | 69176-028LF  | B    | 28               | 1.4          | 2.56 | 2.34 | 2.17 | 2.14 |
| 649-69176-030LF             | 69176-030LF  | B    | 30               | 1.5          | 2.92 | 2.70 | 2.38 | 2.36 |
| 649-65846-002LF             | 65846-002LF  | B    | 30               | 1.5          | 2.63 | 2.40 | 2.12 | 2.00 |
| 649-65846-003LF             | 65846-003LF  | B    | 38               | 1.9          | 3.20 | 2.89 | 2.62 | 2.47 |
| 649-65846-004LF             | 65846-004LF  | B    | 44               | 2.2          | 3.36 | 2.81 | 2.55 | 2.41 |
| 649-65846-005LF             | 65846-005LF  | B    | 54               | 2.7          | 4.72 | 3.94 | 3.60 | 3.41 |

## MINI-PV™ RECEPTACLE CONTACTS

- 1 = 30µ" gold over nickel with gold flash
- 2 = 15µ" gold over nickel with gold flash
- 3 = 40µ" gold over nickel with gold flash
- 4 = 100µ" tin



For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | FCI Part No. | AWG   | Spring Force | Plating | Price Each |     |      |      |
|------------------|--------------|-------|--------------|---------|------------|-----|------|------|
|                  |              |       |              |         | 1          | 25  | 100  | 250  |
| 649-48266-000LF  | 48266-000LF  | 18-20 | Standard     | 1       | .20        | .19 | .183 | .177 |
| 649-48233-000LF  | 48233-000LF  | 18-20 | Ult High     | 1       | .21        | .20 | .193 | .177 |
| 649-48236-000LF  | 48236-000LF  | 22-26 | Ult High     | 1       | .35        | .26 | .215 | .199 |
| 649-48257-000LF  | 48257-000LF  | 22-26 | Ult High     | 2       | .23        | .21 | .193 | .182 |
| 649-47750-000LF  | 47750-000LF  | 22-26 | Ult High     | 4       | .19        | .17 | .161 | .145 |
| 649-48254-000LF  | 48254-000LF  | 22-26 | High         | 2       | .23        | .22 | .193 | .182 |
| 649-47715-000LF  | 47715-000LF  | 22-26 | High         | 4       | .26        | .22 | .215 | .199 |
| 649-47712-000LF  | 47712-000LF  | 22-26 | High         | 3       | .44        | .43 | .387 | .365 |
| 649-48234-000LF  | 48234-000LF  | 22-26 | High         | 1       | .43        | .41 | .387 | .365 |
| 649-48235-000LF  | 48235-000LF  | 22-26 | Standard     | 1       | .22        | .21 | .193 | .177 |
| 649-48251-000LF  | 48251-000LF  | 22-26 | Standard     | 2       | .25        | .22 | .194 | .177 |
| 649-47747-000LF  | 47747-000LF  | 22-26 | Standard     | 4       | .33        | .30 | .267 | .248 |
| 649-47743-000LF  | 47743-000LF  | 22-26 | Standard     | 3       | .50        | .47 | .441 | .43  |
| 649-47745-000LF  | 47745-000LF  | 22-26 | Ult High     | 3       | .43        | .41 | .386 | .359 |
| 649-48238-000LF  | 48238-000LF  | 28-32 | Standard     | 1       | .22        | .21 | .204 | .182 |
| 649-48239-000LF  | 48239-000LF  | 28-32 | Ult High     | 1       | .37        | .27 | .215 | .193 |
| 649-47748-000LF  | 47748-000LF  | 28-32 | High         | 2       | .23        | .22 | .193 | .182 |
| 649-48237-000LF  | 48237-000LF  | 28-32 | High         | 1       | .35        | .26 | .215 | .193 |
| 649-48252-000LF  | 48252-000LF  | 28-32 | Standard     | 2       | .21        | .20 | .193 | .177 |

## HAND TOOLS

| MOUSER STOCK NO. | FCI Part No. | Description     | AWG   | Price Each |
|------------------|--------------|-----------------|-------|------------|
| 649-HT-73        | HT-0073      | Mini-PV™        | 18-20 | 726.49     |
| 649-HT-95        | HT-0095      | Mini-PV™        | 22-32 | 1348.40    |
| 649-HT-48        | HT-0048      | Maxi-PV™        | 22-26 | 942.44     |
| 649-HT-80        | HT-0080      | PV removal tool | - - - | 13.81      |
| 649-HT-102       | HT-0102      | Pin contacts    | 22-32 | 1026.22    |

## MINI-PV POLARIZATION PLUG

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | FCI Part No. | Fig. | Description       | Price Each |     |     |     |
|------------------|--------------|------|-------------------|------------|-----|-----|-----|
|                  |              |      |                   | 1          | 10  | 25  | 100 |
| 649-65307-001LF  | 65307-001LF  | - -  | Polarization Plug | .42        | .35 | .31 | .28 |

## 1.25 MM WIRE-TO-BOARD CONNECTORS

### Features:

- Polarized to prevent mis-mating
- Friction lock
- Current rating: 1A
- Operating temperature: -40°C to +105°C
- Housing meets EU Industry Safety Standard

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.                    | FCI Part No.     | Fig. | No. of Positions | Length (mm) | Price Each |     |      |      |
|-------------------------------------|------------------|------|------------------|-------------|------------|-----|------|------|
|                                     |                  |      |                  |             | 1          | 25  | 100  | 250  |
| <b>Through Hole Vertical Header</b> |                  |      |                  |             |            |     |      |      |
| 649-10114829-10102                  | 10114829-10102LF | C    | 2                | 4.25        | .17        | .15 | .133 | .128 |
| 649-10114829-10103                  | 10114829-10103LF | C    | 3                | 5.50        | .20        | .17 | .154 | .149 |
| 649-10114829-10104                  | 10114829-10104LF | C    | 4                | 6.75        | .21        | .19 | .164 | .159 |
| 649-10114829-10106                  | 10114829-10106LF | C    | 6                | 9.25        | .26        | .23 | .195 | .19  |
| <b>SMT Vertical Header</b>          |                  |      |                  |             |            |     |      |      |
| 649-10114828-10102                  | 10114828-10102LF | D    | 2                | 4.25        | .19        | .17 | .144 | .138 |
| 649-10114828-10103                  | 10114828-10103LF | D    | 3                | 5.50        | .22        | .19 | .164 | .159 |
| 649-10114828-10104                  | 10114828-10104LF | D    | 4                | 6.75        | .25        | .22 | .185 | .18  |
| 649-10114828-10106                  | 10114828-10106LF | D    | 6                | 9.25        | .36        | .31 | .257 | .252 |
| <b>Receptacle</b>                   |                  |      |                  |             |            |     |      |      |
| 649-10114826-00002                  | 10114826-00002LF | E    | 2                | 4.25        | .13        | .09 | .046 | .032 |
| 649-10114826-00003                  | 10114826-00003LF | E    | 3                | 5.50        | .08        | .07 | .032 |      |