

**Product Facts**

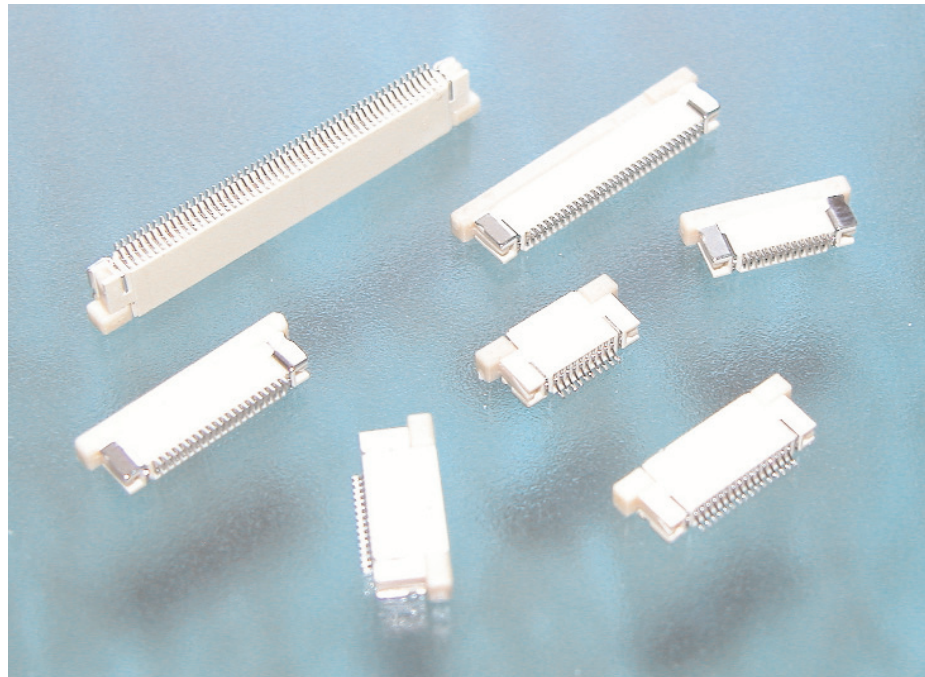
- Available in ZIF and non-ZIF
- Available in 0.3, 0.5, 1.0, and 1.25mm Centerlines
- Available Tin-Lead or Lead-Free
- SMT, Thu-Hole, Vertical and Right-Angle
- Right-Angle Available Top or Bottom Contact

**Need more information?**

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Technical Support is staffed with specialists well versed in Tyco Electronics products. They can provide you with:

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- Catalogs
- Technical Documents
- Product Samples
- Authorized Distributor Locations



As the demands for higher-density packaging of electronic equipment increases, the use of flexible printed circuits (FPC) to reduce size, weight and assembly costs has expanded. FPC is finding wide acceptance in the computer industry, particularly in such applications as Lap Top, Notebook, Palm Top and Note Pad

Computers. Other markets include: Disk Drives, Printers, Plotters, Copiers, Cellular Phones, and Medical Equipment.

Tyco Electronics FPC connectors have been developed to meet the challenges of this expanding market. Available in center-line spacings 0.3 [.012], 0.5

[.020], 1.0 [.039], and 1.25 [.049] all incorporating low profile and light-weight features.

For custom parts, modification, or any inquiries, please contact your nearest Tyco Electronics Representatives or visit our website <http://www.tycoelectronics.com>

| Part Number | Pb Free Part Number | Pitch | ZIF    | SMT / Thu-Hole | Vertical / Right-Angle | Contact Type | Circuit Range | Type A/B | Page Number |
|-------------|---------------------|-------|--------|----------------|------------------------|--------------|---------------|----------|-------------|
| 1746237     | 1746237             | 0.3   | ZIF    | SMT            | Right-Angle            | Bottom       | 27, 39        | A        | 2           |
| 1470731     | 1734742             | 0.5   | ZIF    | SMT            | Vertical               | —            | 4 - 40P       | A        | 3           |
| 1470359     | 1734839             | 0.5   | ZIF    | SMT            | Right-Angle            | Top          | 5 - 50P       | Inline   | 4 & 5       |
| 1470360     | 1734592             | 0.5   | ZIF    | SMT            | Right-Angle            | Bottom       | 5 - 50P       | Inline   | 6 & 7       |
| 440347      | 1734248             | 1.0   | ZIF    | SMT            | Vertical               | —            | 3 - 40P       | 2 Row    | 8 & 9       |
| 487951      | 84953               | 1.0   | ZIF    | SMT            | Right-Angle            | Top          | 4 - 30P       | Inline   | 10 & 11     |
| 487952      | 84952               | 1.0   | ZIF    | SMT            | Right-Angle            | Bottom       | 4 - 30P       | Inline   | 12 & 13     |
| 84982       | 84982               | 1.0   | NonZIF | SMT            | Vertical               | —            | 4 - 40P       | A        | 14 & 15     |
| 84981       | 84981               | 1.0   | NonZIF | SMT            | Right-Angle            | Top          | 4 - 40P       | Inline   | 16 & 17     |
| 1470852     | 1734798             | 1.0   | NonZIF | SMT            | Right-Angle            | Bottom       | 4 - 30P       | Inline   | 18 & 19     |
| 84984       | 84984               | 1.0   | NonZIF | Thu-Hole       | Vertical               | —            | 4 - 40P       | A        | 20 & 21     |
| 84983       | 84983               | 1.0   | NonZIF | Thu-Hole       | Right-Angle            | Top          | 4 - 40P       | A        | 22 & 23     |
| 1470790     | 1734779             | 1.0   | NonZIF | Thu-Hole       | Right-Angle            | Bottom       | 4 - 30P       | B        | 24 & 25     |
| 84534       | 84534               | 1.25  | NonZIF | Thu-Hole       | Vertical               | —            | 4 - 40P       | A        | 26 & 27     |
| 84533       | 84533               | 1.25  | NonZIF | Thu-Hole       | Right-Angle            | Top          | 4 - 40P       | A        | 28 & 29     |

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**Product Dimensions**

**0.3 mm, FPC Connector,  
Flip Lock Type**

**Part Number:** 1746237

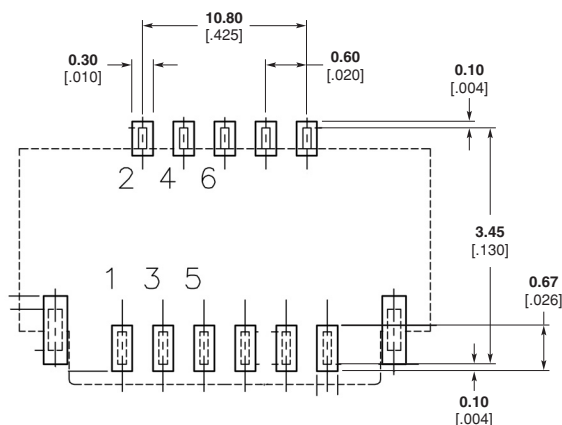
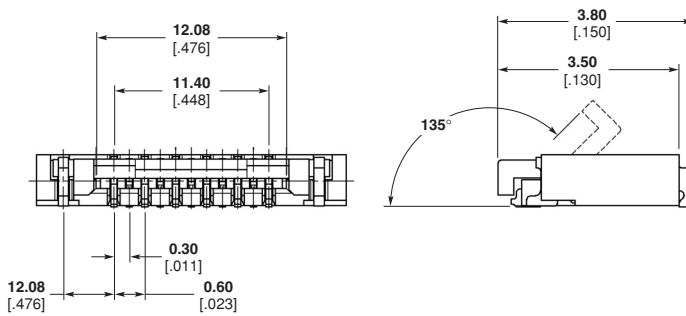
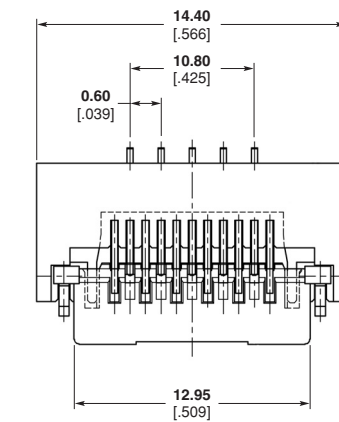
**Material and Finish**

**Housing** — Thermoplastic, UL 94V-0

**Contacts** — Phosphor bronze

**Technical Documents**

**Product Specification** — 108-5924



**Recommended PCB Layout**

**Product Dimensions** (Continued)

**0.5 mm, FPC/FFC  
Connector, ZIF, Vertical,  
SMT, Type A**

**Part Number 1470731  
Lead Free 1734742**

**Material and Finish**

**Housing** — High temperature thermo-  
plastic, UL 94V-0, brown color

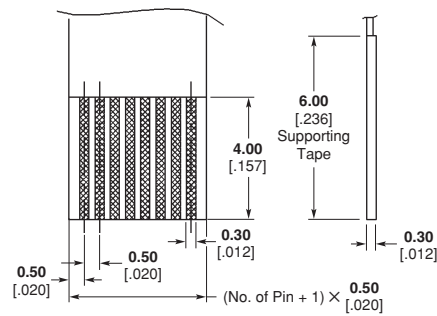
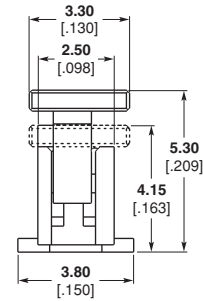
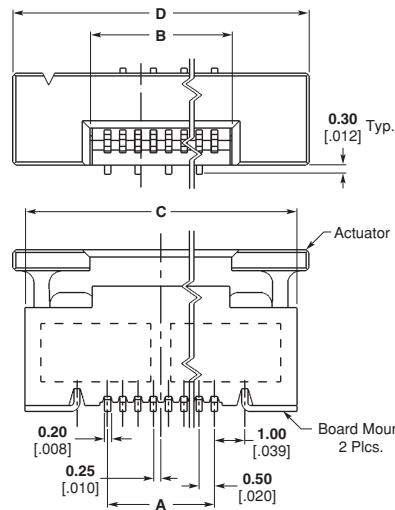
**Actuator** — High temperature thermo-  
plastic, UL 94V-0, natural color

**Contacts** — Phosphor bronze

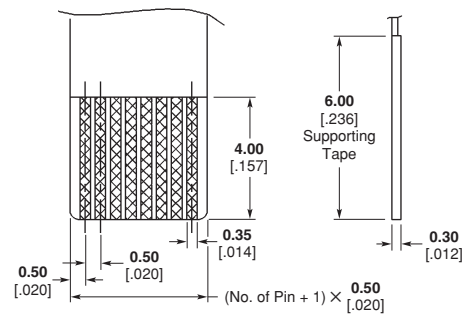
**Board Mounts** — Brass

**Technical Documents**

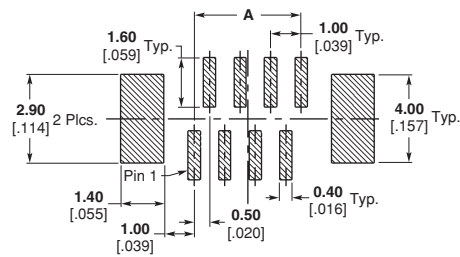
**Product Specification** — 108-57324



**Recommended FFC Layout**



**Recommended FPC Layout**



**Recommended PCB Layout**

| Part Number | No. of Contacts | Dimension     |               |                |                |
|-------------|-----------------|---------------|---------------|----------------|----------------|
|             |                 | A             | B             | C              | D              |
| 1-1470731-6 | 16              | 7.50<br>.295  | 8.65<br>.341  | 12.90<br>.508  | 13.70<br>.539  |
| 1-1470731-8 | 18              | 8.50<br>.335  | 9.65<br>.380  | 13.90<br>.547  | 14.70<br>.579  |
| 2-1470731-0 | 20              | 9.50<br>.374  | 10.65<br>.419 | 14.90<br>.587  | 15.70<br>.618  |
| 2-1470731-4 | 24              | 11.50<br>.453 | 12.65<br>.498 | 16.90<br>.665  | 17.70<br>.697  |
| 3-1470731-0 | 30              | 14.50<br>.571 | 15.65<br>.616 | 19.90<br>.783  | 20.70<br>.815  |
| 4-1470731-0 | 40              | 19.50<br>.768 | 20.65<br>.813 | 25.90<br>1.020 | 25.70<br>1.012 |

**Product Dimensions** (Continued)

**0.5 mm, FPC Connector,  
SMT, Top Contact**

**Part Number** 1470359  
**Lead Free** 1734839

**Material and Finish**

**Housing** — High temperature thermoplastic, UL 94V-O, natural color

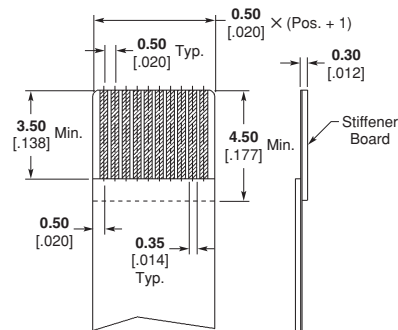
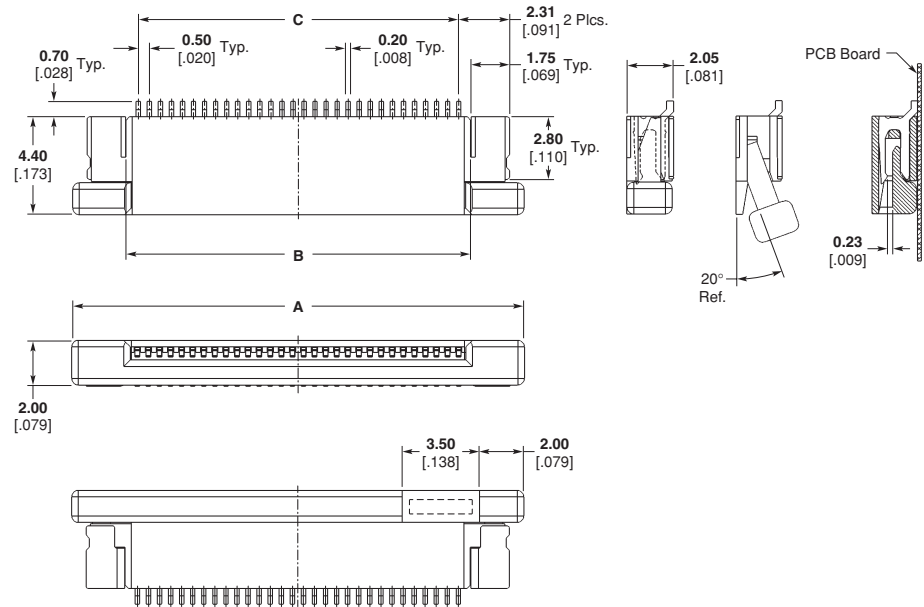
**Actuator** — Thermoplastic, UL 94V-O, ivory color

**Hold Down** — Phosphor bronze

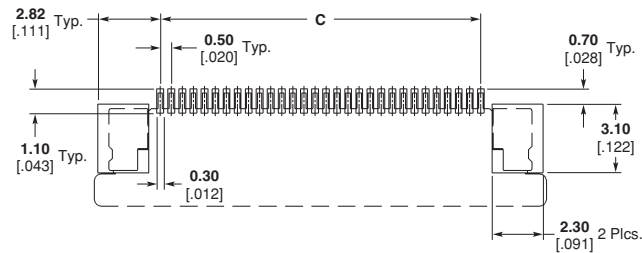
**Contact** — Phosphor bronze

**Technical Documents**

**Product Specification** — 108-57238



**Recommended FPC Layout**



**Recommended PCB Layout**

**Product Dimensions** (Continued)

**0.5 mm, FPC Connector,  
SMT, Top Contact**

**Part Number 1470359  
Lead Free 1734839**

| Part Number | Position | Dimension     |               |               |
|-------------|----------|---------------|---------------|---------------|
|             |          | A             | B             | C             |
| 1470359-5   | 5        | 7.93<br>.312  | 3.10<br>.122  | 2.00<br>.078  |
| 1470359-6   | 6        | 8.43<br>.331  | 3.60<br>.141  | 2.50<br>.098  |
| 1470359-7   | 7        | 8.93<br>.351  | 4.10<br>.161  | 3.00<br>.118  |
| 1470359-8   | 8        | 9.43<br>.371  | 4.60<br>.181  | 3.50<br>.137  |
| 1470359-9   | 9        | 9.93<br>.390  | 5.10<br>.200  | 4.00<br>.157  |
| 1-1470359-0 | 10       | 10.43<br>.410 | 5.60<br>.220  | 4.50<br>.177  |
| 1-1470359-1 | 11       | 10.93<br>.430 | 6.10<br>.240  | 5.00<br>.196  |
| 1-1470359-2 | 12       | 11.43<br>.450 | 6.60<br>.259  | 5.50<br>.216  |
| 1-1470359-3 | 13       | 11.93<br>.469 | 7.10<br>.279  | 6.00<br>.236  |
| 1-1470359-4 | 14       | 12.43<br>.489 | 7.60<br>.299  | 6.50<br>.255  |
| 1-1470359-5 | 15       | 12.93<br>.509 | 8.10<br>.318  | 7.00<br>.275  |
| 1-1470359-6 | 16       | 13.43<br>.528 | 8.60<br>.338  | 7.50<br>.295  |
| 1-1470359-7 | 17       | 13.93<br>.548 | 9.10<br>.358  | 8.00<br>.314  |
| 1-1470359-8 | 18       | 14.43<br>.568 | 9.60<br>.377  | 8.50<br>.334  |
| 1-1470359-9 | 19       | 14.93<br>.587 | 10.10<br>.397 | 9.00<br>.354  |
| 2-1470359-0 | 20       | 15.43<br>.607 | 10.60<br>.417 | 9.50<br>.374  |
| 2-1470359-1 | 21       | 15.93<br>.627 | 11.10<br>.437 | 10.00<br>.393 |
| 2-1470359-2 | 22       | 16.43<br>.646 | 11.60<br>.456 | 10.50<br>.413 |
| 2-1470359-3 | 23       | 16.93<br>.666 | 12.10<br>.476 | 11.00<br>.433 |
| 2-1470359-4 | 24       | 17.43<br>.686 | 12.60<br>.496 | 11.50<br>.452 |
| 2-1470359-5 | 25       | 17.93<br>.705 | 13.10<br>.515 | 12.00<br>.472 |
| 2-1470359-6 | 26       | 18.43<br>.725 | 13.60<br>.535 | 12.50<br>.492 |
| 2-1470359-7 | 27       | 18.93<br>.745 | 14.10<br>.555 | 13.00<br>.511 |

| Part Number | Position | Dimension      |                |               |
|-------------|----------|----------------|----------------|---------------|
|             |          | A              | B              | C             |
| 2-1470359-8 | 28       | 19.43<br>.764  | 14.60<br>.574  | 13.50<br>.531 |
| 2-1470359-9 | 29       | 19.93<br>.784  | 15.10<br>.594  | 14.00<br>.551 |
| 3-1470359-0 | 30       | 20.43<br>.804  | 15.60<br>.614  | 14.50<br>.570 |
| 3-1470359-1 | 31       | 20.93<br>.824  | 16.10<br>.633  | 15.00<br>.590 |
| 3-1470359-2 | 32       | 21.43<br>.843  | 16.60<br>.653  | 15.50<br>.610 |
| 3-1470359-3 | 33       | 21.93<br>.863  | 17.10<br>.673  | 16.00<br>.629 |
| 3-1470359-4 | 34       | 22.43<br>.883  | 17.60<br>.692  | 16.50<br>.649 |
| 3-1470359-5 | 35       | 22.93<br>.902  | 18.10<br>.712  | 17.00<br>.669 |
| 3-1470359-6 | 36       | 23.43<br>.922  | 18.60<br>.732  | 17.50<br>.688 |
| 3-1470359-7 | 37       | 23.93<br>.942  | 19.10<br>.751  | 18.00<br>.708 |
| 3-1470359-8 | 38       | 24.43<br>.961  | 19.60<br>.771  | 18.50<br>.728 |
| 3-1470359-9 | 39       | 24.93<br>.981  | 20.10<br>.791  | 19.00<br>.748 |
| 4-1470359-0 | 40       | 25.43<br>1.001 | 20.60<br>.811  | 19.50<br>.767 |
| 4-1470359-1 | 41       | 25.93<br>1.020 | 21.10<br>.830  | 20.00<br>.787 |
| 4-1470359-2 | 42       | 26.43<br>1.040 | 21.60<br>.850  | 20.50<br>.807 |
| 4-1470359-3 | 43       | 26.93<br>1.060 | 22.10<br>.870  | 21.00<br>.826 |
| 4-1470359-4 | 44       | 27.43<br>1.079 | 22.60<br>.890  | 21.50<br>.846 |
| 4-1470359-5 | 45       | 27.93<br>1.099 | 23.10<br>.909  | 22.00<br>.866 |
| 4-1470359-6 | 46       | 28.43<br>1.119 | 23.60<br>.929  | 22.50<br>.885 |
| 4-1470359-7 | 47       | 28.93<br>1.138 | 24.10<br>.949  | 23.00<br>.905 |
| 4-1470359-8 | 48       | 29.43<br>1.158 | 24.60<br>.968  | 23.50<br>.925 |
| 4-1470359-9 | 49       | 29.93<br>1.178 | 25.10<br>.988  | 24.00<br>.944 |
| 5-1470359-0 | 50       | 30.43<br>1.198 | 25.60<br>1.008 | 24.50<br>.964 |

**Product Dimensions** (Continued)

**0.5 mm, FPC Connector,  
SMT, Bottom Contact**

**Part Number** 1470360  
**Lead Free** 1734592

**Material and Finish**

**Housing** — High temperature thermo-  
plastic, UL 94V-0, natural color

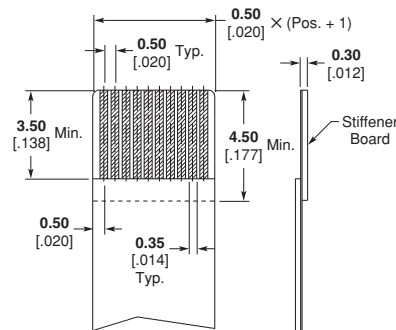
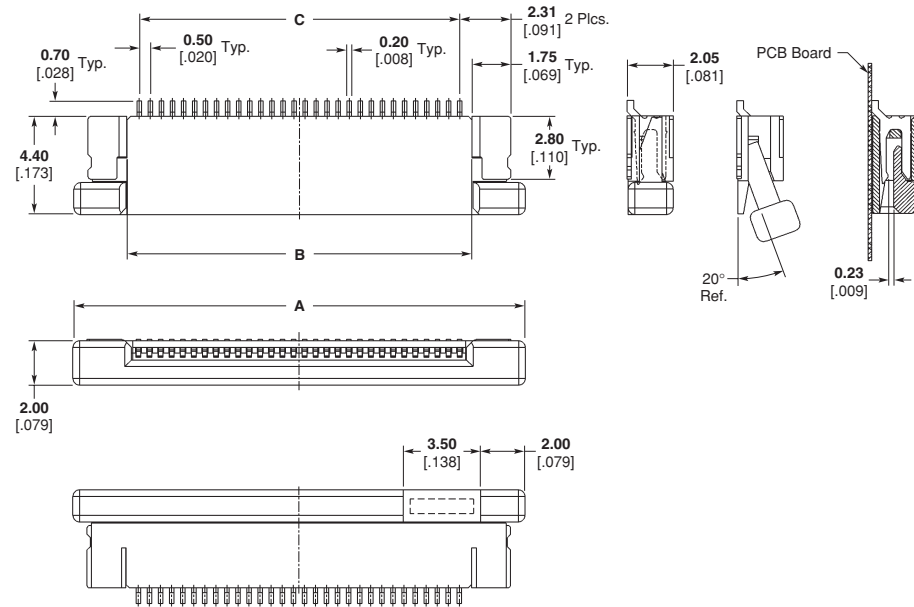
**Actuator** — Thermoplastic, UL 94V-0,  
ivory color

**Hold Down** — Phosphor bronze

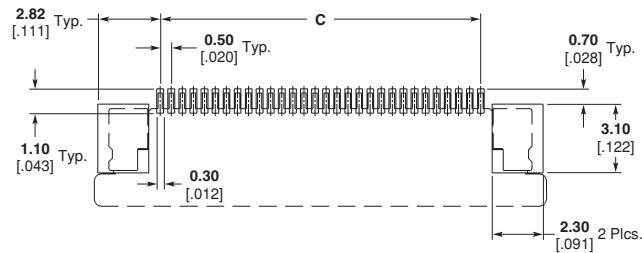
**Contact** — Phosphor bronze

**Technical Documents**

**Product Specification** — 108-57238



**Recommended FPC Layout**



**Recommended PCB Layout**

**Product Dimensions** (Continued)

**0.5 mm, FPC Connector,  
SMT, Bottom Contact**

**Part Number 1470360  
Lead Free 1734592**

| Part Number | Position | Dimension     |               |               |
|-------------|----------|---------------|---------------|---------------|
|             |          | A             | B             | C             |
| 1470360-5   | 5        | 7.93<br>.312  | 3.10<br>.122  | 2.00<br>.078  |
| 1470360-6   | 6        | 8.43<br>.331  | 3.60<br>.141  | 2.50<br>.098  |
| 1470360-7   | 7        | 8.93<br>.351  | 4.10<br>.161  | 3.00<br>.118  |
| 1470360-8   | 8        | 9.43<br>.371  | 4.60<br>.181  | 3.50<br>.137  |
| 1470360-9   | 9        | 9.93<br>.390  | 5.10<br>.200  | 4.00<br>.157  |
| 1-1470360-0 | 10       | 10.43<br>.410 | 5.60<br>.220  | 4.50<br>.177  |
| 1-1470360-1 | 11       | 10.93<br>.430 | 6.10<br>.240  | 5.00<br>.196  |
| 1-1470360-2 | 12       | 11.43<br>.450 | 6.60<br>.259  | 5.50<br>.216  |
| 1-1470360-3 | 13       | 11.93<br>.469 | 7.10<br>.279  | 6.00<br>.236  |
| 1-1470360-4 | 14       | 12.43<br>.489 | 7.60<br>.299  | 6.50<br>.255  |
| 1-1470360-5 | 15       | 12.93<br>.509 | 8.10<br>.318  | 7.00<br>.275  |
| 1-1470360-6 | 16       | 13.43<br>.528 | 8.60<br>.338  | 7.50<br>.295  |
| 1-1470360-7 | 17       | 13.93<br>.548 | 9.10<br>.358  | 8.00<br>.314  |
| 1-1470360-8 | 18       | 14.43<br>.568 | 9.60<br>.377  | 8.50<br>.334  |
| 1-1470360-9 | 19       | 14.93<br>.587 | 10.10<br>.397 | 9.00<br>.354  |
| 2-1470360-0 | 20       | 15.43<br>.607 | 10.60<br>.417 | 9.50<br>.374  |
| 2-1470360-1 | 21       | 15.93<br>.627 | 11.10<br>.437 | 10.00<br>.393 |
| 2-1470360-2 | 22       | 16.43<br>.646 | 11.60<br>.456 | 10.50<br>.413 |
| 2-1470360-3 | 23       | 16.93<br>.666 | 12.10<br>.476 | 11.00<br>.433 |
| 2-1470360-4 | 24       | 17.43<br>.686 | 12.60<br>.496 | 11.50<br>.452 |
| 2-1470360-5 | 25       | 17.93<br>.705 | 13.10<br>.515 | 12.00<br>.472 |
| 2-1470360-6 | 26       | 18.43<br>.725 | 13.60<br>.535 | 12.50<br>.492 |
| 2-1470360-7 | 27       | 18.93<br>.745 | 14.10<br>.555 | 13.00<br>.511 |

| Part Number | Position | Dimension      |                |               |
|-------------|----------|----------------|----------------|---------------|
|             |          | A              | B              | C             |
| 2-1470360-8 | 28       | 19.43<br>.764  | 14.60<br>.574  | 13.50<br>.531 |
| 2-1470360-9 | 29       | 19.93<br>.784  | 15.10<br>.594  | 14.00<br>.551 |
| 3-1470360-0 | 30       | 20.43<br>.804  | 15.60<br>.614  | 14.50<br>.570 |
| 3-1470360-1 | 31       | 20.93<br>.824  | 16.10<br>.633  | 15.00<br>.590 |
| 3-1470360-2 | 32       | 21.43<br>.843  | 16.60<br>.653  | 15.50<br>.610 |
| 3-1470360-3 | 33       | 21.93<br>.863  | 17.10<br>.673  | 16.00<br>.629 |
| 3-1470360-4 | 34       | 22.43<br>.883  | 17.60<br>.692  | 16.50<br>.649 |
| 3-1470360-5 | 35       | 22.93<br>.902  | 18.10<br>.712  | 17.00<br>.669 |
| 3-1470360-6 | 36       | 23.43<br>.922  | 18.60<br>.732  | 17.50<br>.688 |
| 3-1470360-7 | 37       | 23.93<br>.942  | 19.10<br>.751  | 18.00<br>.708 |
| 3-1470360-8 | 38       | 24.43<br>.961  | 19.60<br>.771  | 18.50<br>.728 |
| 3-1470360-9 | 39       | 24.93<br>.981  | 20.10<br>.791  | 19.00<br>.748 |
| 4-1470360-0 | 40       | 25.43<br>1.001 | 20.60<br>.811  | 19.50<br>.767 |
| 4-1470360-1 | 41       | 25.93<br>1.020 | 21.10<br>.830  | 20.00<br>.787 |
| 4-1470360-2 | 42       | 26.43<br>1.040 | 21.60<br>.850  | 20.50<br>.807 |
| 4-1470360-3 | 43       | 26.93<br>1.060 | 22.10<br>.870  | 21.00<br>.826 |
| 4-1470360-4 | 44       | 27.43<br>1.079 | 22.60<br>.890  | 21.50<br>.846 |
| 4-1470360-5 | 45       | 27.93<br>1.099 | 23.10<br>.909  | 22.00<br>.866 |
| 4-1470360-6 | 46       | 28.43<br>1.119 | 23.60<br>.929  | 22.50<br>.885 |
| 4-1470360-7 | 47       | 28.93<br>1.138 | 24.10<br>.949  | 23.00<br>.905 |
| 4-1470360-8 | 48       | 29.43<br>1.158 | 24.60<br>.968  | 23.50<br>.925 |
| 4-1470360-9 | 49       | 29.93<br>1.178 | 25.10<br>.988  | 24.00<br>.944 |
| 5-1470360-0 | 50       | 30.43<br>1.198 | 25.60<br>1.008 | 24.50<br>.964 |

**Product Dimensions** (Continued)

**1.0 mm, FPC Connector,  
ZIF Vertical, SMT**

**Part Number** 440347  
**Lead Free** 1734248

**Material and Finish**

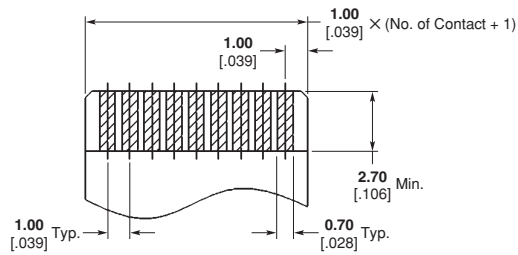
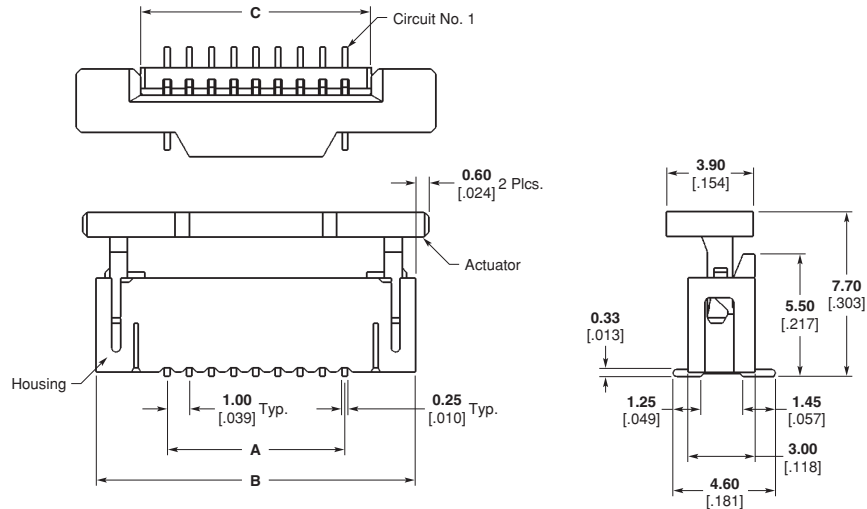
**Housing** — Thermoplastic, UL 94V-0,  
black color

**Actuator** — PPS, UL 94V-0, brown  
color

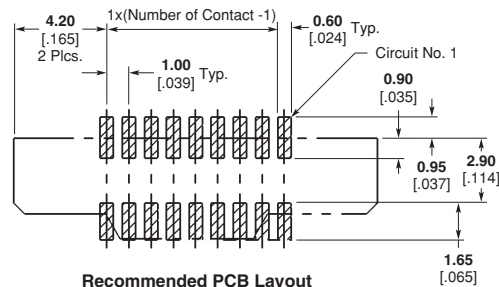
**Contact** — Phosphor bronze

**Technical Documents**

**Product Specification** — 108-57080



**Recommended FPC Layout**



**Recommended PCB Layout**

**Product Dimensions** (Continued)

**1.0 mm, FPC Connector,  
ZIF Vertical, SMT**

**Part Number 440347  
Lead Free 1734248**

| Part Number | Position | Dimension     |                |               |
|-------------|----------|---------------|----------------|---------------|
|             |          | A             | B              | C             |
| 440347-3    | 3        | 2.00<br>.078  | 8.60<br>.338   | 4.40<br>.173  |
| 440347-4    | 4        | 3.00<br>.118  | 9.60<br>.377   | 5.40<br>.212  |
| 440347-5    | 5        | 4.00<br>.157  | 10.60<br>.417  | 6.40<br>.251  |
| 440347-6    | 6        | 5.00<br>.197  | 11.60<br>.456  | 7.40<br>.291  |
| 440347-7    | 7        | 6.00<br>.236  | 12.60<br>.496  | 8.40<br>.330  |
| 440347-8    | 8        | 7.00<br>.276  | 13.60<br>.535  | 9.40<br>.370  |
| 440347-9    | 9        | 8.00<br>.315  | 14.60<br>.574  | 10.40<br>.409 |
| 440347-0    | 10       | 9.00<br>.354  | 15.60<br>.614  | 11.40<br>.448 |
| 1-440347-1  | 11       | 10.00<br>.394 | 16.60<br>.653  | 12.40<br>.488 |
| 1-440347-2  | 12       | 11.00<br>.433 | 17.60<br>.692  | 13.40<br>.527 |
| 1-440347-3  | 13       | 12.00<br>.472 | 18.60<br>.732  | 14.40<br>.566 |
| 1-440347-4  | 14       | 13.00<br>.512 | 19.60<br>.771  | 15.40<br>.606 |
| 1-440347-5  | 15       | 14.00<br>.551 | 20.60<br>.811  | 16.40<br>.645 |
| 1-440347-6  | 16       | 15.00<br>.591 | 21.60<br>.850  | 17.40<br>.685 |
| 1-440347-7  | 17       | 16.00<br>.630 | 22.60<br>.889  | 18.40<br>.724 |
| 1-440347-8  | 18       | 17.00<br>.669 | 23.60<br>.929  | 19.40<br>.763 |
| 1-440347-9  | 19       | 18.00<br>.709 | 24.60<br>.968  | 20.40<br>.803 |
| 2-440347-0  | 20       | 19.00<br>.748 | 25.60<br>1.007 | 21.40<br>.842 |
| 2-440347-1  | 21       | 20.00<br>.787 | 26.60<br>1.047 | 22.40<br>.881 |

| Part Number | Position | Dimension      |                |                |
|-------------|----------|----------------|----------------|----------------|
|             |          | A              | B              | C              |
| 2-440347-2  | 22       | 21.00<br>.827  | 27.60<br>1.086 | 23.40<br>.921  |
| 2-440347-3  | 23       | 22.00<br>.866  | 28.60<br>1.125 | 24.40<br>.960  |
| 2-440347-4  | 24       | 23.00<br>.906  | 29.60<br>1.165 | 25.40<br>1.000 |
| 2-440347-5  | 25       | 24.00<br>.945  | 30.60<br>1.204 | 26.40<br>1.039 |
| 2-440347-6  | 26       | 25.00<br>.984  | 31.60<br>1.244 | 27.40<br>1.078 |
| 2-440347-7  | 27       | 26.00<br>1.024 | 32.60<br>1.283 | 28.40<br>1.118 |
| 2-440347-8  | 28       | 27.00<br>1.063 | 33.60<br>1.322 | 29.40<br>1.157 |
| 2-440347-9  | 29       | 28.00<br>1.102 | 34.60<br>1.362 | 30.40<br>1.196 |
| 3-440347-0  | 30       | 29.00<br>1.142 | 35.60<br>1.401 | 31.40<br>1.236 |
| 3-440347-1  | 31       | 30.00<br>1.181 | 36.60<br>1.440 | 32.40<br>1.275 |
| 3-440347-2  | 32       | 31.00<br>1.221 | 37.60<br>1.480 | 33.40<br>1.314 |
| 3-440347-3  | 33       | 32.00<br>1.259 | 38.60<br>1.519 | 34.40<br>1.354 |
| 3-440347-4  | 34       | 33.00<br>1.299 | 39.60<br>1.559 | 35.40<br>1.393 |
| 3-440347-5  | 35       | 34.00<br>1.338 | 40.60<br>1.598 | 36.40<br>1.433 |
| 3-440347-6  | 36       | 35.00<br>1.377 | 41.60<br>1.637 | 37.40<br>1.472 |
| 3-440347-7  | 37       | 36.00<br>1.417 | 42.60<br>1.677 | 38.40<br>1.511 |
| 3-440347-8  | 38       | 37.00<br>1.456 | 43.60<br>1.716 | 39.40<br>1.551 |
| 3-440347-9  | 39       | 38.00<br>1.496 | 44.60<br>1.755 | 40.40<br>1.590 |
| 4-440347-0  | 40       | 39.00<br>1.535 | 45.60<br>1.795 | 41.40<br>1.629 |

**Product Dimensions** (Continued)

**1.0 mm, FPC Connector,  
Right Angle, SMT, Top  
Contact**

**Part Number** 487951  
**Lead Free** 84953

**Material and Finish**

**Housing** — Glass reinforced polyester (LCP), UL 94V-0, natural color

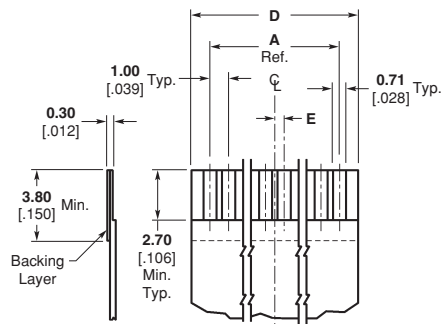
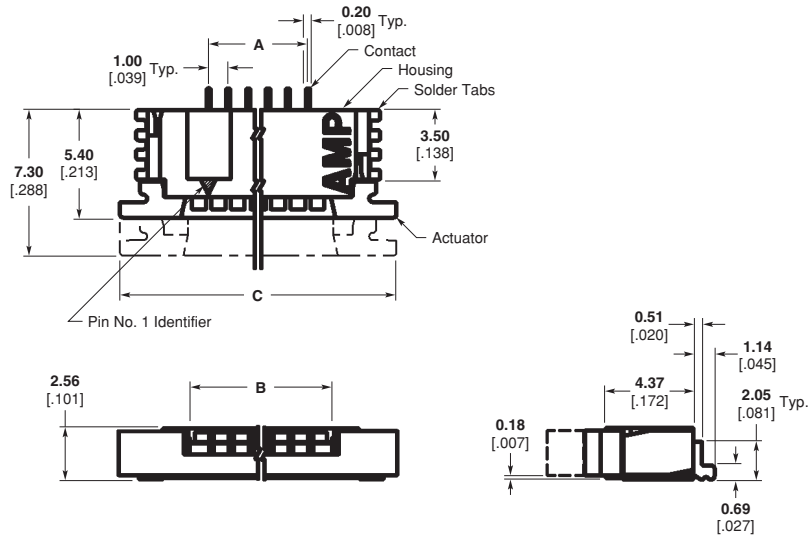
**Actuator** — Glass reinforced nylon (PPA), UL 94V-0, or glass reinforced PPS, UL 94V-0, black color

**Solder Tabs** — Phosphor bronze

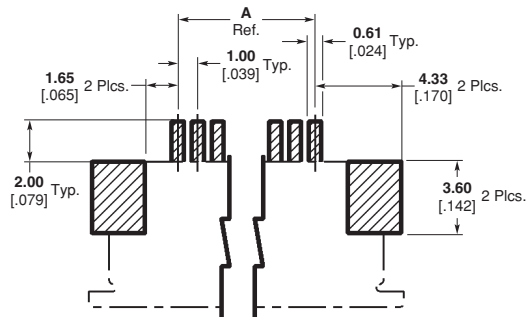
**Contact** — Phosphor bronze

**Technical Documents**

**Product Specification** — 108-1393



**Recommended FPC Layout**



**Recommended PCB Layout**

1.0 mm, FPC Connector,  
Right Angle, SMT, Top  
Contact

Part Number 487951  
Lead Free 84953

Technical Documents  
Product Specification — 108-1393

**Product Dimensions** (Continued)

| Part Number | Positions | Dimension      |                |                |                |              |
|-------------|-----------|----------------|----------------|----------------|----------------|--------------|
|             |           | A              | B              | C              | D              | E            |
| 84953-4     | 4         | 3.00<br>.118   | 5.18<br>.204   | 11.92<br>.469  | 5.00<br>.197   | 0.50<br>.019 |
| 84953-5     | 5         | 4.00<br>.157   | 6.18<br>.243   | 12.92<br>.509  | 6.00<br>.236   | —            |
| 84953-6     | 6         | 5.00<br>.197   | 7.18<br>.283   | 13.92<br>.548  | 7.00<br>.276   | 0.50<br>.019 |
| 84953-7     | 7         | 6.00<br>.236   | 8.18<br>.322   | 14.92<br>.587  | 8.00<br>.315   | —            |
| 84953-8     | 8         | 7.00<br>.276   | 9.18<br>.361   | 15.92<br>.627  | 9.00<br>.354   | 0.50<br>.019 |
| 84953-9     | 9         | 8.00<br>.315   | 10.18<br>.401  | 16.92<br>.666  | 10.00<br>.394  | —            |
| 1-84953-0   | 10        | 9.00<br>.354   | 11.18<br>.440  | 17.92<br>.705  | 11.00<br>.433  | 0.50<br>.019 |
| 1-84953-1   | 11        | 10.00<br>.394  | 12.18<br>.480  | 18.92<br>.745  | 12.00<br>.472  | —            |
| 1-84953-2   | 12        | 11.00<br>.433  | 13.18<br>.519  | 19.92<br>.784  | 13.00<br>.512  | 0.50<br>.019 |
| 1-84953-3   | 13        | 12.00<br>.472  | 14.18<br>.558  | 20.92<br>.824  | 14.00<br>.551  | —            |
| 1-84953-4   | 14        | 13.00<br>.512  | 15.18<br>.598  | 21.92<br>.863  | 15.00<br>.591  | 0.50<br>.019 |
| 1-84953-5   | 15        | 14.00<br>.551  | 16.18<br>.637  | 22.92<br>.902  | 16.00<br>.630  | —            |
| 1-84953-6   | 16        | 15.00<br>.591  | 17.18<br>.676  | 23.92<br>.942  | 17.00<br>.669  | 0.50<br>.019 |
| 1-84953-7   | 17        | 16.00<br>.630  | 18.18<br>.716  | 24.92<br>.981  | 18.00<br>.709  | —            |
| 1-84953-8   | 18        | 17.00<br>.669  | 19.18<br>.755  | 25.92<br>1.020 | 19.00<br>.748  | 0.50<br>.019 |
| 1-84953-9   | 19        | 18.00<br>.709  | 20.18<br>.794  | 26.92<br>1.060 | 20.00<br>.787  | —            |
| 2-84953-0   | 20        | 19.00<br>.748  | 21.18<br>.834  | 27.92<br>1.099 | 21.00<br>.827  | 0.50<br>.019 |
| 2-84953-1   | 21        | 20.00<br>.787  | 22.18<br>.873  | 28.92<br>1.139 | 22.00<br>.866  | —            |
| 2-84953-2   | 22        | 21.00<br>.827  | 23.18<br>.913  | 29.92<br>1.179 | 23.00<br>.906  | 0.50<br>.019 |
| 2-84953-3   | 23        | 22.00<br>.866  | 24.18<br>.952  | 30.92<br>1.217 | 24.00<br>.945  | —            |
| 2-84953-4   | 24        | 23.00<br>.906  | 25.18<br>.991  | 31.92<br>1.257 | 25.00<br>.984  | 0.50<br>.019 |
| 2-84953-5   | 25        | 24.00<br>.945  | 26.18<br>1.031 | 32.92<br>1.296 | 26.00<br>1.024 | —            |
| 2-84953-6   | 26        | 25.00<br>.984  | 27.18<br>1.070 | 33.92<br>1.335 | 27.00<br>1.063 | 0.50<br>.019 |
| 2-84953-7   | 27        | 26.00<br>1.024 | 28.18<br>1.109 | 34.92<br>1.375 | 28.00<br>1.102 | —            |
| 2-84953-8   | 28        | 27.00<br>1.063 | 29.18<br>1.149 | 35.92<br>1.414 | 29.00<br>1.142 | 0.50<br>.019 |
| 2-84953-9   | 29        | 28.00<br>1.102 | 30.18<br>1.188 | 36.92<br>1.454 | 30.00<br>1.181 | —            |
| 3-84953-0   | 30        | 29.00<br>1.142 | 31.18<br>1.228 | 37.92<br>1.492 | 31.00<br>1.221 | 0.50<br>.019 |

### Product Dimensions (Continued)

**1.0 mm, FPC Connector,  
Right Angle, SMT, Bottom  
Contact**

|             |        |
|-------------|--------|
| Part Number | 487952 |
| Lead Free   | 84952  |

## Material and Finish

**Housing** — Glass reinforced polyester (LCP), UL 94V-0, natural color

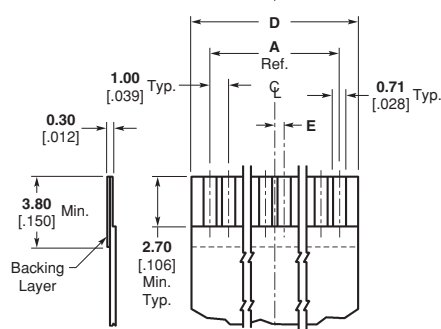
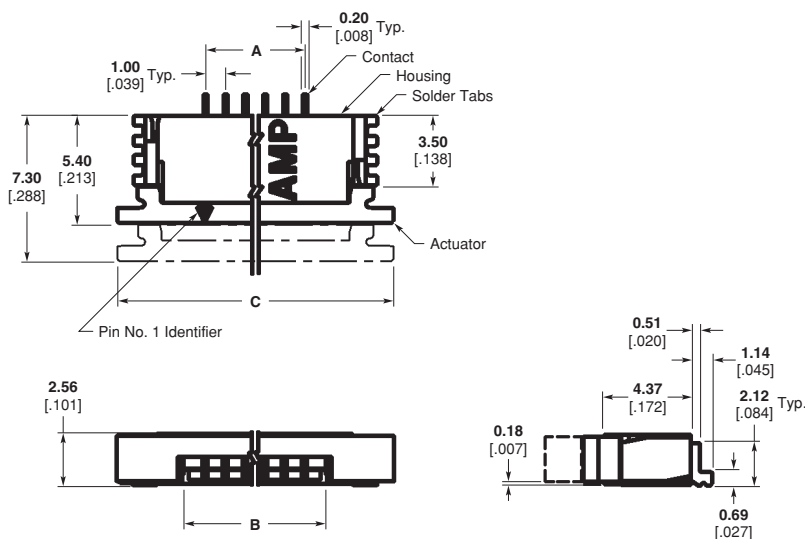
**Actuator** — Glass reinforced nylon (PPA), UL 94V-O, or glass reinforced PPS, UL 94V-O, black color

**Solder Tabs** — Phosphor bronze

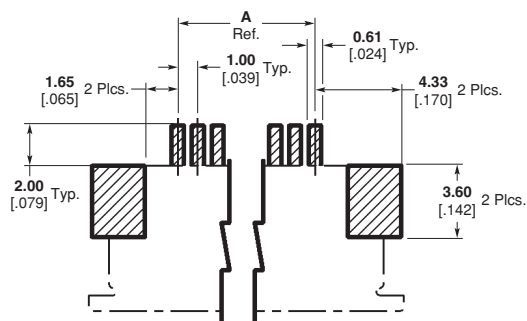
**Contact** — Phosphor bronze

## Technical Documents

Product Specification — 108-1393



### Recommended FPC Layout



## Recommended PCB Layout

1.0 mm, FPC Connector,  
Right Angle, SMT, Bottom  
Contact

Part Number 487952  
Lead Free 84952

Technical Documents  
Product Specification — 108-1393

**Product Dimensions** (Continued)

| Part Number | Positions | Dimension      |                |                |                |              |
|-------------|-----------|----------------|----------------|----------------|----------------|--------------|
|             |           | A              | B              | C              | D              | E            |
| 84952-4     | 4         | 3.00<br>.118   | 5.18<br>.204   | 11.92<br>.469  | 5.00<br>.197   | 0.50<br>.019 |
| 84952-5     | 5         | 4.00<br>.157   | 6.18<br>.243   | 12.92<br>.509  | 6.00<br>.236   | —            |
| 84952-6     | 6         | 5.00<br>.197   | 7.18<br>.283   | 13.92<br>.548  | 7.00<br>.276   | 0.50<br>.019 |
| 84952-7     | 7         | 6.00<br>.236   | 8.18<br>.322   | 14.92<br>.587  | 8.00<br>.315   | —            |
| 84952-8     | 8         | 7.00<br>.276   | 9.18<br>.361   | 15.92<br>.627  | 9.00<br>.354   | 0.50<br>.019 |
| 84952-9     | 9         | 8.00<br>.315   | 10.18<br>.401  | 16.92<br>.666  | 10.00<br>.394  | —            |
| 1-84952-0   | 10        | 9.00<br>.354   | 11.18<br>.440  | 17.92<br>.705  | 11.00<br>.433  | 0.50<br>.019 |
| 1-84952-1   | 11        | 10.00<br>.394  | 12.18<br>.480  | 18.92<br>.745  | 12.00<br>.472  | —            |
| 1-84952-2   | 12        | 11.00<br>.433  | 13.18<br>.519  | 19.92<br>.784  | 13.00<br>.512  | 0.50<br>.019 |
| 1-84952-3   | 13        | 12.00<br>.472  | 14.18<br>.558  | 20.92<br>.824  | 14.00<br>.551  | —            |
| 1-84952-4   | 14        | 13.00<br>.512  | 15.18<br>.598  | 21.92<br>.863  | 15.00<br>.591  | 0.50<br>.019 |
| 1-84952-5   | 15        | 14.00<br>.551  | 16.18<br>.637  | 22.92<br>.902  | 16.00<br>.630  | —            |
| 1-84952-6   | 16        | 15.00<br>.591  | 17.18<br>.676  | 23.92<br>.942  | 17.00<br>.669  | 0.50<br>.019 |
| 1-84952-7   | 17        | 16.00<br>.630  | 18.18<br>.716  | 24.92<br>.981  | 18.00<br>.709  | —            |
| 1-84952-8   | 18        | 17.00<br>.669  | 19.18<br>.755  | 25.92<br>1.020 | 19.00<br>.748  | 0.50<br>.019 |
| 1-84952-9   | 19        | 18.00<br>.709  | 20.18<br>.794  | 26.92<br>1.060 | 20.00<br>.787  | —            |
| 2-84952-0   | 20        | 19.00<br>.748  | 21.18<br>.834  | 27.92<br>1.099 | 21.00<br>.827  | 0.50<br>.019 |
| 2-84952-1   | 21        | 20.00<br>.787  | 22.18<br>.873  | 28.92<br>1.139 | 22.00<br>.866  | —            |
| 2-84952-2   | 22        | 21.00<br>.827  | 23.18<br>.913  | 29.92<br>1.179 | 23.00<br>.906  | 0.50<br>.019 |
| 2-84952-3   | 23        | 22.00<br>.866  | 24.18<br>.952  | 30.92<br>1.217 | 24.00<br>.945  | —            |
| 2-84952-4   | 24        | 23.00<br>.906  | 25.18<br>.991  | 31.92<br>1.257 | 25.00<br>.984  | 0.50<br>.019 |
| 2-84952-5   | 25        | 24.00<br>.945  | 26.18<br>1.031 | 32.92<br>1.296 | 26.00<br>1.024 | —            |
| 2-84952-6   | 26        | 25.00<br>.984  | 27.18<br>1.070 | 33.92<br>1.335 | 27.00<br>1.063 | 0.50<br>.019 |
| 2-84952-7   | 27        | 26.00<br>1.024 | 28.18<br>1.109 | 34.92<br>1.375 | 28.00<br>1.102 | —            |
| 2-84952-8   | 28        | 27.00<br>1.063 | 29.18<br>1.149 | 35.92<br>1.414 | 29.00<br>1.142 | 0.50<br>.019 |
| 2-84952-9   | 29        | 28.00<br>1.102 | 30.18<br>1.188 | 36.92<br>1.454 | 30.00<br>1.181 | —            |
| 3-84952-0   | 30        | 29.00<br>1.142 | 31.18<br>1.228 | 37.92<br>1.492 | 31.00<br>1.221 | 0.50<br>.019 |

**Product Dimensions** (Continued)

**1.0 mm, FFC Connector,  
SMT, Vertical, (Non-ZIF)**

**Lead Free 84982**

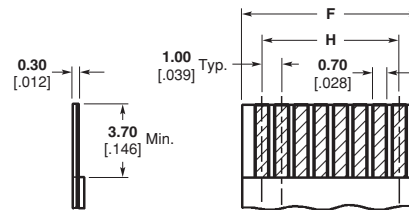
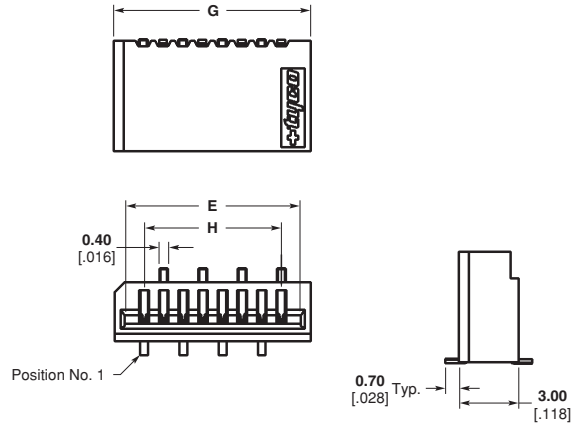
**Material and Finish**

**Housing** — Glass filled high temperature nylon, beige color

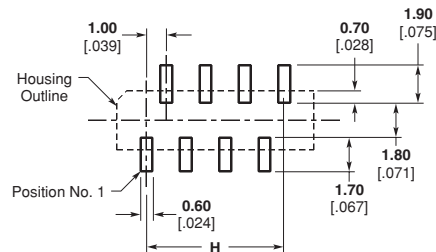
**Contact** — Phosphor bronze

**Technical Documents**

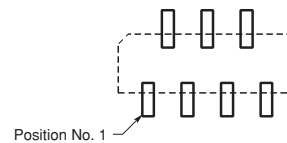
**Product Specification** — 108-51054



**Recommended FFC/FPC Layout**



**Recommended PCB Layout  
For Even Position Connectors**



**Recommended PCB Layout  
For Odd Position Connectors**

1.0 mm, FFC Connector,  
SMT, Vertical, (Non-ZIF)

Lead Free 84982

Technical Documents  
Product Specification — 108-51054

**Product Dimensions** (Continued)

| Part Number | No. of Contacts | Dimension      |                |                |                |
|-------------|-----------------|----------------|----------------|----------------|----------------|
|             |                 | E              | F              | G              | H              |
| 84982-4     | 4               | 5.00<br>.197   | 5.00<br>.197   | 6.00<br>.236   | 3.00<br>.118   |
| 84982-5     | 5               | 6.00<br>.236   | 6.00<br>.236   | 7.00<br>.276   | 4.00<br>.157   |
| 84982-6     | 6               | 7.00<br>.276   | 7.00<br>.276   | 8.00<br>.315   | 5.00<br>.197   |
| 84982-7     | 7               | 8.00<br>.315   | 8.00<br>.315   | 9.00<br>.354   | 6.00<br>.236   |
| 84982-8     | 8               | 9.00<br>.354   | 9.00<br>.354   | 10.00<br>.394  | 7.00<br>.276   |
| 84982-9     | 9               | 10.00<br>.394  | 10.00<br>.394  | 11.00<br>.433  | 8.00<br>.315   |
| 1-84982-0   | 10              | 11.00<br>.433  | 11.00<br>.433  | 12.00<br>.472  | 9.00<br>.354   |
| 1-84982-1   | 11              | 12.00<br>.472  | 12.00<br>.472  | 13.00<br>.512  | 10.00<br>.394  |
| 1-84982-2   | 12              | 13.00<br>.512  | 13.00<br>.512  | 14.00<br>.551  | 11.00<br>.433  |
| 1-84982-3   | 13              | 14.00<br>.551  | 14.00<br>.551  | 15.00<br>.591  | 12.00<br>.472  |
| 1-84982-4   | 14              | 15.00<br>.591  | 15.00<br>.591  | 16.00<br>.630  | 13.00<br>.512  |
| 1-84982-5   | 15              | 16.00<br>.630  | 16.00<br>.630  | 17.00<br>.669  | 14.00<br>.551  |
| 1-84982-6   | 16              | 17.00<br>.669  | 17.00<br>.669  | 18.00<br>.709  | 15.00<br>.591  |
| 1-84982-7   | 17              | 18.00<br>.709  | 18.00<br>.709  | 19.00<br>.748  | 16.00<br>.630  |
| 1-84982-8   | 18              | 19.00<br>.748  | 19.00<br>.748  | 20.00<br>.787  | 17.00<br>.669  |
| 1-84982-9   | 19              | 20.00<br>.787  | 20.00<br>.787  | 21.00<br>.827  | 18.00<br>.709  |
| 2-84982-0   | 20              | 21.00<br>.827  | 21.00<br>.827  | 22.00<br>.866  | 19.00<br>.748  |
| 2-84982-1   | 21              | 22.00<br>.866  | 22.00<br>.866  | 23.00<br>.906  | 20.00<br>.787  |
| 2-84982-2   | 22              | 23.00<br>.906  | 23.00<br>.906  | 24.00<br>.945  | 21.00<br>.827  |
| 2-84982-3   | 23              | 24.00<br>.945  | 24.00<br>.945  | 25.00<br>.984  | 22.00<br>.866  |
| 2-84982-4   | 24              | 25.00<br>.984  | 25.00<br>.984  | 26.00<br>1.024 | 23.00<br>.906  |
| 2-84982-5   | 25              | 26.00<br>1.024 | 26.00<br>1.024 | 27.00<br>1.063 | 24.00<br>.945  |
| 2-84982-6   | 26              | 27.00<br>1.063 | 27.00<br>1.063 | 28.00<br>1.102 | 25.00<br>.984  |
| 2-84982-7   | 27              | 28.00<br>1.102 | 28.00<br>1.102 | 29.00<br>1.142 | 26.00<br>1.024 |
| 2-84982-8   | 28              | 29.00<br>1.142 | 29.00<br>1.142 | 30.00<br>1.181 | 27.00<br>1.063 |
| 2-84982-9   | 29              | 30.00<br>1.181 | 30.00<br>1.181 | 31.00<br>1.221 | 28.00<br>1.102 |
| 3-84982-0   | 30              | 31.00<br>1.221 | 31.00<br>1.221 | 32.00<br>1.259 | 29.00<br>1.142 |
| 3-84982-1   | 31              | 32.00<br>1.259 | 32.00<br>1.259 | 33.00<br>1.299 | 30.00<br>1.181 |
| 3-84982-2   | 32              | 33.00<br>1.299 | 33.00<br>1.299 | 34.00<br>1.338 | 31.00<br>1.221 |
| 3-84982-3   | 33              | 34.00<br>1.338 | 34.00<br>1.338 | 35.00<br>1.377 | 32.00<br>1.259 |
| 3-84982-4   | 34              | 35.00<br>1.377 | 35.00<br>1.377 | 36.00<br>1.417 | 33.00<br>1.299 |
| 3-84982-5   | 35              | 36.00<br>1.417 | 36.00<br>1.417 | 37.00<br>1.456 | 34.00<br>1.338 |
| 3-84982-6   | 36              | 37.00<br>1.456 | 37.00<br>1.456 | 38.00<br>1.496 | 35.00<br>1.377 |
| 3-84982-7   | 37              | 38.00<br>1.496 | 38.00<br>1.496 | 39.00<br>1.535 | 36.00<br>1.417 |
| 3-84982-8   | 38              | 39.00<br>1.535 | 39.00<br>1.535 | 40.00<br>1.574 | 37.00<br>1.456 |
| 3-84982-9   | 39              | 40.00<br>1.574 | 40.00<br>1.574 | 41.00<br>1.614 | 38.00<br>1.496 |
| 4-84982-0   | 40              | 41.00<br>1.614 | 41.00<br>1.614 | 42.00<br>1.653 | 39.00<br>1.535 |

**Product Dimensions** (Continued)

**1.0 mm, FFC Connector,  
SMT, Right Angle, Non-ZIF**

**Lead Free 84981**

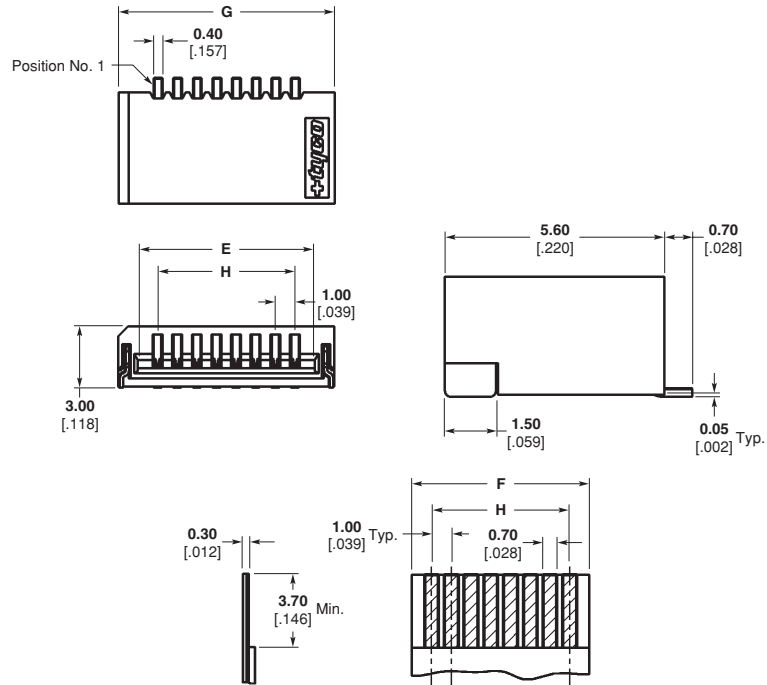
**Material and Finish**

**Housing** — Glass filled high temperature nylon, beige color

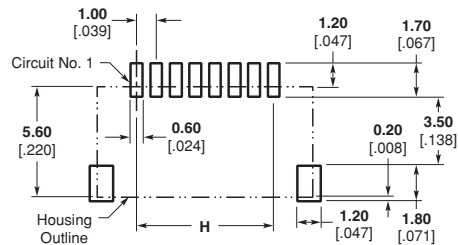
**Contact** — Phosphor bronze

**Technical Documents**

**Product Specification** — 108-51054



**Recommended FFC/FPC Layout**



**Recommended PCB Layout**

1.0 mm, FFC Connector,  
SMT, Right Angle, Non-ZIF

Lead Free      84981

Technical Documents  
Product Specification — 108-51054

**Product Dimensions** (Continued)

| Part Number | No. of Contacts | Dimension      |                |                |                |
|-------------|-----------------|----------------|----------------|----------------|----------------|
|             |                 | E              | F              | G              | H              |
| 84981-4     | 4               | 5.00<br>.197   | 5.00<br>.197   | 7.00<br>.276   | 3.00<br>.118   |
| 84981-5     | 5               | 6.00<br>.236   | 6.00<br>.236   | 8.00<br>.315   | 4.00<br>.157   |
| 84981-6     | 6               | 7.00<br>.276   | 7.00<br>.276   | 9.00<br>.354   | 5.00<br>.197   |
| 84981-7     | 7               | 8.00<br>.315   | 8.00<br>.315   | 10.00<br>.394  | 6.00<br>.236   |
| 84981-8     | 8               | 9.00<br>.354   | 9.00<br>.354   | 11.00<br>.433  | 7.00<br>.276   |
| 84981-9     | 9               | 10.00<br>.394  | 10.00<br>.394  | 12.00<br>.472  | 8.00<br>.315   |
| 1-84981-0   | 10              | 11.00<br>.433  | 11.00<br>.433  | 13.00<br>.512  | 9.00<br>.354   |
| 1-84981-1   | 11              | 12.00<br>.472  | 12.00<br>.472  | 14.00<br>.551  | 10.00<br>.394  |
| 1-84981-2   | 12              | 13.00<br>.512  | 13.00<br>.512  | 15.00<br>.591  | 11.00<br>.433  |
| 1-84981-3   | 13              | 14.00<br>.551  | 14.00<br>.551  | 16.00<br>.630  | 12.00<br>.472  |
| 1-84981-4   | 14              | 15.00<br>.591  | 15.00<br>.591  | 17.00<br>.669  | 13.00<br>.512  |
| 1-84981-5   | 15              | 16.00<br>.630  | 16.00<br>.630  | 18.00<br>.709  | 14.00<br>.551  |
| 1-84981-6   | 16              | 17.00<br>.669  | 17.00<br>.669  | 19.00<br>.748  | 15.00<br>.591  |
| 1-84981-7   | 17              | 18.00<br>.709  | 18.00<br>.709  | 20.00<br>.787  | 16.00<br>.630  |
| 1-84981-8   | 18              | 19.00<br>.748  | 19.00<br>.748  | 21.00<br>.827  | 17.00<br>.669  |
| 1-84981-9   | 19              | 20.00<br>.787  | 20.00<br>.787  | 22.00<br>.866  | 18.00<br>.709  |
| 2-84981-0   | 20              | 21.00<br>.827  | 21.00<br>.827  | 23.00<br>.906  | 19.00<br>.748  |
| 2-84981-1   | 21              | 22.00<br>.866  | 22.00<br>.866  | 24.00<br>.945  | 20.00<br>.787  |
| 2-84981-2   | 22              | 23.00<br>.906  | 23.00<br>.906  | 25.00<br>.984  | 21.00<br>.827  |
| 2-84981-3   | 23              | 24.00<br>.945  | 24.00<br>.945  | 26.00<br>1.024 | 22.00<br>.866  |
| 2-84981-4   | 24              | 25.00<br>.984  | 25.00<br>.984  | 27.00<br>1.063 | 23.00<br>.906  |
| 2-84981-5   | 25              | 26.00<br>1.024 | 26.00<br>1.024 | 28.00<br>1.102 | 24.00<br>.945  |
| 2-84981-6   | 26              | 27.00<br>1.063 | 27.00<br>1.063 | 29.00<br>1.142 | 25.00<br>.984  |
| 2-84981-7   | 27              | 28.00<br>1.102 | 28.00<br>1.102 | 30.00<br>1.181 | 26.00<br>1.024 |
| 2-84981-8   | 28              | 29.00<br>1.142 | 29.00<br>1.142 | 31.00<br>1.221 | 27.00<br>1.063 |
| 2-84981-9   | 29              | 30.00<br>1.181 | 30.00<br>1.181 | 32.00<br>1.259 | 28.00<br>1.102 |
| 3-84981-0   | 30              | 31.00<br>1.221 | 31.00<br>1.221 | 33.00<br>1.299 | 29.00<br>1.142 |
| 3-84981-1   | 31              | 32.00<br>1.259 | 32.00<br>1.259 | 34.00<br>1.338 | 30.00<br>1.181 |
| 3-84981-2   | 32              | 33.00<br>1.299 | 33.00<br>1.299 | 35.00<br>1.377 | 31.00<br>1.221 |
| 3-84981-3   | 33              | 34.00<br>1.338 | 34.00<br>1.338 | 36.00<br>1.417 | 32.00<br>1.259 |
| 3-84981-4   | 34              | 35.00<br>1.377 | 35.00<br>1.377 | 37.00<br>1.456 | 33.00<br>1.299 |
| 3-84981-5   | 35              | 36.00<br>1.417 | 36.00<br>1.417 | 38.00<br>1.496 | 34.00<br>1.338 |
| 3-84981-6   | 36              | 37.00<br>1.456 | 37.00<br>1.456 | 39.00<br>1.535 | 35.00<br>1.377 |
| 3-84981-7   | 37              | 38.00<br>1.496 | 38.00<br>1.496 | 40.00<br>1.574 | 36.00<br>1.417 |
| 3-84981-8   | 38              | 39.00<br>1.535 | 39.00<br>1.535 | 41.00<br>1.614 | 37.00<br>1.456 |
| 3-84981-9   | 39              | 40.00<br>1.574 | 40.00<br>1.574 | 42.00<br>1.653 | 38.00<br>1.496 |
| 4-84981-0   | 40              | 41.00<br>1.614 | 41.00<br>1.614 | 43.00<br>1.692 | 39.00<br>1.535 |

**Product Dimensions** (Continued)

**1.0 mm, FPC Connector,  
Non-ZIF, SMT, Right Angle,  
Bottom Contact**

**Part Number** 1470852  
**Lead Free** 1734798

**Material and Finish**

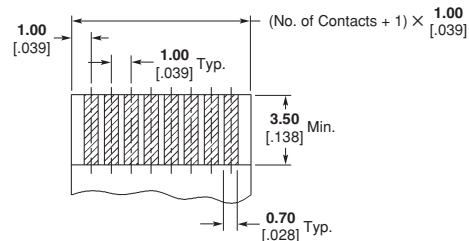
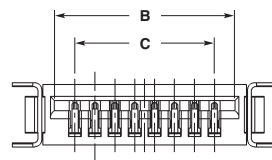
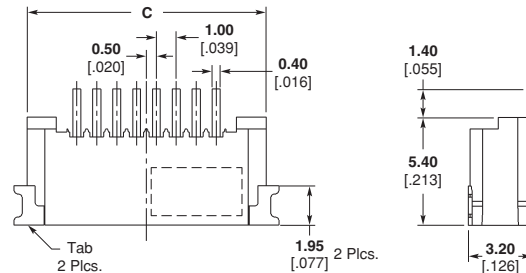
**Housing** — Thermoplastic, UL 94V-0,  
black color

**Tab** — Brass

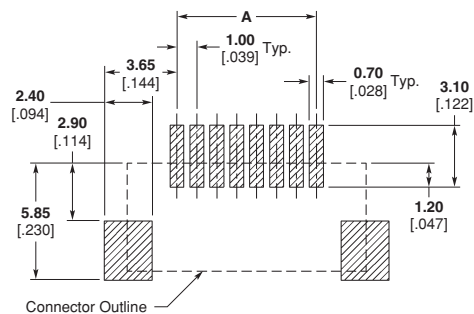
**Contact** — Phosphor bronze

**Technical Documents**

**Product Specification** — 108-57354



**Recommended FPC Layout**



**Recommended PCB Layout**

**1.0 mm, FPC Connector,  
Non-ZIF, SMT, Right Angle,  
Bottom Contact**

**Part Number 1470852  
Lead Free 1734798**

**Technical Documents**  
Product Specification — 108-57354

**Product Dimensions** (Continued)

| Part Number | Position | Dimension      |                |                |
|-------------|----------|----------------|----------------|----------------|
|             |          | A              | B              | C              |
| 1470852-4   | 4        | 3.00<br>.118   | 5.05<br>.198   | 7.00<br>.276   |
| 1470852-5   | 5        | 4.00<br>.157   | 6.05<br>.238   | 8.00<br>.315   |
| 1470852-6   | 6        | 5.00<br>.197   | 7.05<br>.277   | 9.00<br>.354   |
| 1470852-7   | 7        | 6.00<br>.236   | 8.05<br>.316   | 10.00<br>.394  |
| 1470852-8   | 8        | 7.00<br>.276   | 9.05<br>.356   | 11.00<br>.433  |
| 1470852-9   | 9        | 8.00<br>.315   | 10.05<br>.395  | 12.00<br>.472  |
| 1-1470852-0 | 10       | 9.00<br>.354   | 11.05<br>.435  | 13.00<br>.512  |
| 1-1470852-1 | 11       | 10.00<br>.394  | 12.05<br>.474  | 14.00<br>.551  |
| 1-1470852-2 | 12       | 11.00<br>.433  | 13.05<br>.513  | 15.00<br>.591  |
| 1-1470852-3 | 13       | 12.00<br>.472  | 14.05<br>.553  | 16.00<br>.630  |
| 1-1470852-4 | 14       | 13.00<br>.512  | 15.05<br>.592  | 17.00<br>.669  |
| 1-1470852-5 | 15       | 14.00<br>.551  | 16.05<br>.631  | 18.00<br>.709  |
| 1-1470852-6 | 16       | 15.00<br>.591  | 17.05<br>.671  | 19.00<br>.748  |
| 1-1470852-7 | 17       | 16.00<br>.630  | 18.05<br>.710  | 20.00<br>.787  |
| 1-1470852-8 | 18       | 17.00<br>.669  | 19.05<br>.750  | 21.00<br>.827  |
| 1-1470852-9 | 19       | 18.00<br>.709  | 20.05<br>.788  | 22.00<br>.866  |
| 2-1470852-0 | 20       | 19.00<br>.748  | 21.05<br>.828  | 23.00<br>.906  |
| 2-1470852-1 | 21       | 20.00<br>.787  | 22.05<br>.857  | 24.00<br>.945  |
| 2-1470852-2 | 22       | 21.00<br>.827  | 23.05<br>.907  | 25.00<br>.984  |
| 2-1470852-3 | 23       | 22.00<br>.866  | 24.05<br>.946  | 26.00<br>1.024 |
| 2-1470852-4 | 24       | 23.00<br>.906  | 25.05<br>.986  | 27.00<br>1.063 |
| 2-1470852-5 | 25       | 24.00<br>.945  | 26.05<br>1.025 | 28.00<br>1.102 |
| 2-1470852-6 | 26       | 25.00<br>.984  | 27.05<br>1.064 | 29.00<br>1.142 |
| 2-1470852-7 | 27       | 26.00<br>1.024 | 28.05<br>1.104 | 30.00<br>1.181 |
| 2-1470852-8 | 28       | 27.00<br>1.063 | 29.05<br>1.143 | 31.00<br>1.220 |
| 2-1470852-9 | 29       | 28.00<br>1.102 | 30.05<br>1.183 | 32.00<br>1.259 |
| 3-1470852-0 | 30       | 29.00<br>1.142 | 31.05<br>1.222 | 33.00<br>1.299 |

**Product Dimensions** (Continued)

**1.0 mm, FFC Connector,  
Through-Hole, Vertical**

**Lead Free 84984**

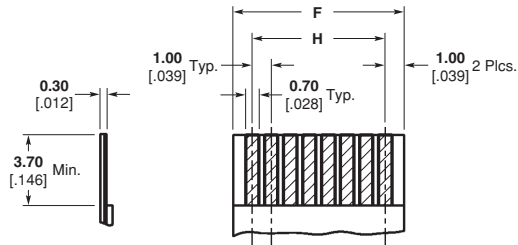
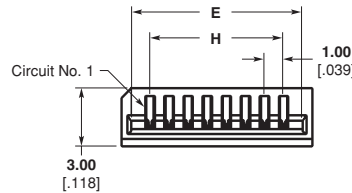
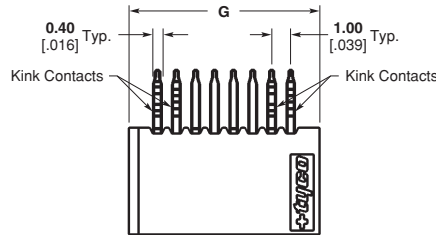
**Material and Finish**

**Housing** — Glass filled PBT, white color

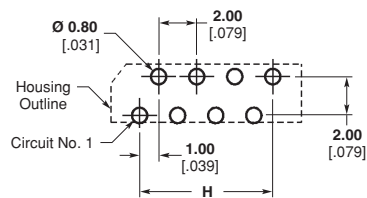
**Contact** — Phosphor bronze

**Technical Documents**

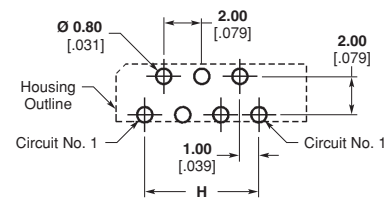
**Product Specification** — 108-51058



**Recommended FPC Layout**



**Recommended PCB Layout  
1.60 [0.063] Thickness  
(For Even Position Connectors)**



**Recommended PCB Layout  
1.60 [0.063] Thickness  
(For Odd Position Connectors)**

**1.0 mm, FFC Connector,  
Through-Hole, Vertical**

**Lead Free 84984**

**Technical Documents**  
**Product Specification — 108-51058**

FPC Connector Family

**Product Dimensions** (Continued)

| Part Number | No. of Contacts | Dimension      |                |                |                |
|-------------|-----------------|----------------|----------------|----------------|----------------|
|             |                 | E              | F              | G              | H              |
| 84984-4     | 4               | 5.00<br>.197   | 5.00<br>.197   | 6.00<br>.236   | 3.00<br>.118   |
| 84984-5     | 5               | 6.00<br>.236   | 6.00<br>.236   | 7.00<br>.276   | 4.00<br>.157   |
| 84984-6     | 6               | 7.00<br>.276   | 7.00<br>.276   | 8.00<br>.315   | 5.00<br>.197   |
| 84984-7     | 7               | 8.00<br>.315   | 8.00<br>.315   | 9.00<br>.354   | 6.00<br>.236   |
| 84984-8     | 8               | 9.00<br>.354   | 9.00<br>.354   | 10.00<br>.394  | 7.00<br>.276   |
| 84984-9     | 9               | 10.00<br>.394  | 10.00<br>.394  | 11.00<br>.433  | 8.00<br>.315   |
| 1-84984-0   | 10              | 11.00<br>.433  | 11.00<br>.433  | 12.00<br>.472  | 9.00<br>.354   |
| 1-84984-1   | 11              | 12.00<br>.472  | 12.00<br>.472  | 13.00<br>.512  | 10.00<br>.394  |
| 1-84984-2   | 12              | 13.00<br>.512  | 13.00<br>.512  | 14.00<br>.551  | 11.00<br>.433  |
| 1-84984-3   | 13              | 14.00<br>.551  | 14.00<br>.551  | 15.00<br>.591  | 12.00<br>.472  |
| 1-84984-4   | 14              | 15.00<br>.591  | 15.00<br>.591  | 16.00<br>.630  | 13.00<br>.512  |
| 1-84984-5   | 15              | 16.00<br>.630  | 16.00<br>.630  | 17.00<br>.669  | 14.00<br>.551  |
| 1-84984-6   | 16              | 17.00<br>.669  | 17.00<br>.669  | 18.00<br>.709  | 15.00<br>.591  |
| 1-84984-7   | 17              | 18.00<br>.709  | 18.00<br>.709  | 19.00<br>.748  | 16.00<br>.630  |
| 1-84984-8   | 18              | 19.00<br>.748  | 19.00<br>.748  | 20.00<br>.787  | 17.00<br>.669  |
| 1-84984-9   | 19              | 20.00<br>.787  | 20.00<br>.787  | 21.00<br>.827  | 18.00<br>.709  |
| 2-84984-0   | 20              | 21.00<br>.827  | 21.00<br>.827  | 22.00<br>.866  | 19.00<br>.748  |
| 2-84984-1   | 21              | 22.00<br>.866  | 22.00<br>.866  | 23.00<br>.906  | 20.00<br>.787  |
| 2-84984-2   | 22              | 23.00<br>.906  | 23.00<br>.906  | 24.00<br>.945  | 21.00<br>.827  |
| 2-84984-3   | 23              | 24.00<br>.945  | 24.00<br>.945  | 25.00<br>.984  | 22.00<br>.866  |
| 2-84984-4   | 24              | 25.00<br>.984  | 25.00<br>.984  | 26.00<br>1.024 | 23.00<br>.906  |
| 2-84984-5   | 25              | 26.00<br>1.024 | 26.00<br>1.024 | 27.00<br>1.063 | 24.00<br>.945  |
| 2-84984-6   | 26              | 27.00<br>1.063 | 27.00<br>1.063 | 28.00<br>1.102 | 25.00<br>.984  |
| 2-84984-7   | 27              | 28.00<br>1.102 | 28.00<br>1.102 | 29.00<br>1.142 | 26.00<br>1.024 |
| 2-84984-8   | 28              | 29.00<br>1.142 | 29.00<br>1.142 | 30.00<br>1.181 | 27.00<br>1.063 |
| 2-84984-9   | 29              | 30.00<br>1.181 | 30.00<br>1.181 | 31.00<br>1.221 | 28.00<br>1.102 |
| 3-84984-0   | 30              | 31.00<br>1.221 | 31.00<br>1.221 | 32.00<br>1.259 | 29.00<br>1.142 |
| 3-84984-1   | 31              | 32.00<br>1.259 | 32.00<br>1.259 | 33.00<br>1.299 | 30.00<br>1.181 |
| 3-84984-2   | 32              | 33.00<br>1.299 | 33.00<br>1.299 | 34.00<br>1.338 | 31.00<br>1.221 |
| 3-84984-3   | 33              | 34.00<br>1.338 | 34.00<br>1.338 | 35.00<br>1.377 | 32.00<br>1.259 |
| 3-84984-4   | 34              | 35.00<br>1.377 | 35.00<br>1.377 | 36.00<br>1.417 | 33.00<br>1.299 |
| 3-84984-5   | 35              | 36.00<br>1.417 | 36.00<br>1.417 | 37.00<br>1.456 | 34.00<br>1.338 |
| 3-84984-6   | 36              | 37.00<br>1.456 | 37.00<br>1.456 | 38.00<br>1.496 | 35.00<br>1.377 |
| 3-84984-7   | 37              | 38.00<br>1.496 | 38.00<br>1.496 | 39.00<br>1.535 | 36.00<br>1.417 |
| 3-84984-8   | 38              | 39.00<br>1.535 | 39.00<br>1.535 | 40.00<br>1.574 | 37.00<br>1.456 |
| 3-84984-9   | 39              | 40.00<br>1.574 | 40.00<br>1.574 | 41.00<br>1.614 | 38.00<br>1.496 |
| 4-84984-0   | 40              | 41.00<br>1.614 | 41.00<br>1.614 | 42.00<br>1.653 | 39.00<br>1.535 |

**Product Dimensions** (Continued)

**1.0 mm, FFC Connector,  
Through-Hole, Right Angle**

**Lead Free 84983**

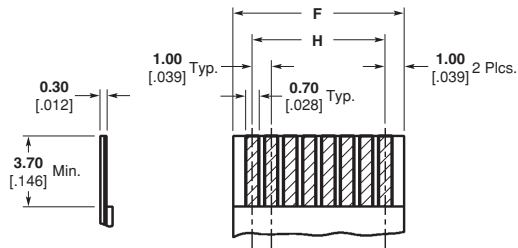
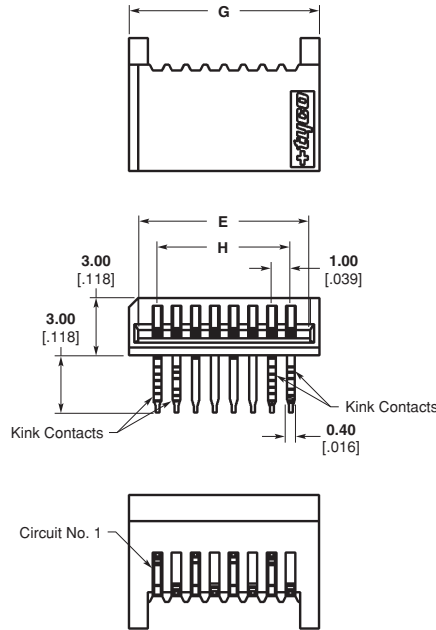
**Material and Finish**

**Housing** — Glass filled PBT, white color

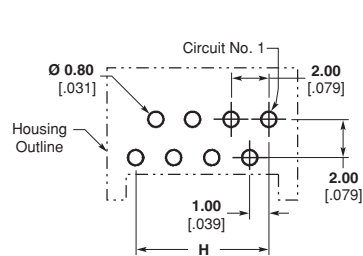
**Contact** — Phosphor bronze

**Technical Documents**

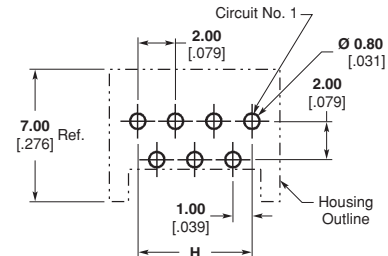
**Product Specification** — 108-51058



**Recommended FPC Layout**



**Recommended PCB Layout  
1.60 [.063] Thickness  
(For Even Position Connectors)**



**Recommended PCB Layout  
1.60 [.063] Thickness  
(For Odd Position Connectors)**

**1.0 mm, FFC Connector,  
Through-Hole, Right Angle,  
Top Contact**

**Lead Free      84983**

**Technical Documents**  
**Product Specification — 108-51058**

**Product Dimensions** (Continued)

| Part Number | No. of Contacts | Dimension      |                |                |                |
|-------------|-----------------|----------------|----------------|----------------|----------------|
|             |                 | E              | F              | G              | H              |
| 84983-4     | 4               | 5.00<br>.197   | 5.00<br>.197   | 6.00<br>.236   | 3.00<br>.118   |
| 84983-5     | 5               | 6.00<br>.236   | 6.00<br>.236   | 7.00<br>.276   | 4.00<br>.157   |
| 84983-6     | 6               | 7.00<br>.276   | 7.00<br>.276   | 8.00<br>.315   | 5.00<br>.197   |
| 84983-7     | 7               | 8.00<br>.315   | 8.00<br>.315   | 9.00<br>.354   | 6.00<br>.236   |
| 84983-8     | 8               | 9.00<br>.354   | 9.00<br>.354   | 10.00<br>.394  | 7.00<br>.276   |
| 84983-9     | 9               | 10.00<br>.394  | 10.00<br>.394  | 11.00<br>.433  | 8.00<br>.315   |
| 1-84983-0   | 10              | 11.00<br>.433  | 11.00<br>.433  | 12.00<br>.472  | 9.00<br>.354   |
| 1-84983-1   | 11              | 12.00<br>.472  | 12.00<br>.472  | 13.00<br>.512  | 10.00<br>.394  |
| 1-84983-2   | 12              | 13.00<br>.512  | 13.00<br>.512  | 14.00<br>.551  | 11.00<br>.433  |
| 1-84983-3   | 13              | 14.00<br>.551  | 14.00<br>.551  | 15.00<br>.591  | 12.00<br>.472  |
| 1-84983-4   | 14              | 15.00<br>.591  | 15.00<br>.591  | 16.00<br>.630  | 13.00<br>.512  |
| 1-84983-5   | 15              | 16.00<br>.630  | 16.00<br>.630  | 17.00<br>.669  | 14.00<br>.551  |
| 1-84983-6   | 16              | 17.00<br>.669  | 17.00<br>.669  | 18.00<br>.709  | 15.00<br>.591  |
| 1-84983-7   | 17              | 18.00<br>.709  | 18.00<br>.709  | 19.00<br>.748  | 16.00<br>.630  |
| 1-84983-8   | 18              | 19.00<br>.748  | 19.00<br>.748  | 20.00<br>.787  | 17.00<br>.669  |
| 1-84983-9   | 19              | 20.00<br>.787  | 20.00<br>.787  | 21.00<br>.827  | 18.00<br>.709  |
| 2-84983-0   | 20              | 21.00<br>.827  | 21.00<br>.827  | 22.00<br>.866  | 19.00<br>.748  |
| 2-84983-1   | 21              | 22.00<br>.866  | 22.00<br>.866  | 23.00<br>.906  | 20.00<br>.787  |
| 2-84983-2   | 22              | 23.00<br>.906  | 23.00<br>.906  | 24.00<br>.945  | 21.00<br>.827  |
| 2-84983-3   | 23              | 24.00<br>.945  | 24.00<br>.945  | 25.00<br>.984  | 22.00<br>.866  |
| 2-84983-4   | 24              | 25.00<br>.984  | 25.00<br>.984  | 26.00<br>1.024 | 23.00<br>.906  |
| 2-84983-5   | 25              | 26.00<br>1.024 | 26.00<br>1.024 | 27.00<br>1.063 | 24.00<br>.945  |
| 2-84983-6   | 26              | 27.00<br>1.063 | 27.00<br>1.063 | 28.00<br>1.102 | 25.00<br>.984  |
| 2-84983-7   | 27              | 28.00<br>1.102 | 28.00<br>1.102 | 29.00<br>1.142 | 26.00<br>1.024 |
| 2-84983-8   | 28              | 29.00<br>1.142 | 29.00<br>1.142 | 30.00<br>1.181 | 27.00<br>1.063 |
| 2-84983-9   | 29              | 30.00<br>1.181 | 30.00<br>1.181 | 31.00<br>1.221 | 28.00<br>1.102 |
| 3-84983-0   | 30              | 31.00<br>1.221 | 31.00<br>1.221 | 32.00<br>1.259 | 29.00<br>1.142 |
| 3-84983-1   | 31              | 32.00<br>1.259 | 32.00<br>1.259 | 33.00<br>1.299 | 30.00<br>1.181 |
| 3-84983-2   | 32              | 33.00<br>1.299 | 33.00<br>1.299 | 34.00<br>1.338 | 31.00<br>1.221 |
| 3-84983-3   | 33              | 34.00<br>1.338 | 34.00<br>1.338 | 35.00<br>1.377 | 32.00<br>1.259 |
| 3-84983-4   | 34              | 35.00<br>1.377 | 35.00<br>1.377 | 36.00<br>1.417 | 33.00<br>1.299 |
| 3-84983-5   | 35              | 36.00<br>1.417 | 36.00<br>1.417 | 37.00<br>1.456 | 34.00<br>1.338 |
| 3-84983-6   | 36              | 37.00<br>1.456 | 37.00<br>1.456 | 38.00<br>1.496 | 35.00<br>1.377 |
| 3-84983-7   | 37              | 38.00<br>1.496 | 38.00<br>1.496 | 39.00<br>1.535 | 36.00<br>1.417 |
| 3-84983-8   | 38              | 39.00<br>1.535 | 39.00<br>1.535 | 40.00<br>1.574 | 37.00<br>1.456 |
| 3-84983-9   | 39              | 40.00<br>1.574 | 40.00<br>1.574 | 41.00<br>1.614 | 38.00<br>1.496 |
| 4-84983-0   | 40              | 41.00<br>1.614 | 41.00<br>1.614 | 42.00<br>1.653 | 39.00<br>1.535 |

**Product Dimensions** (Continued)

**1.0 mm, FPC Connector,  
Non-ZIF, Right-Angle,  
Bottom Contact, Type B**

**Part Number** 1470790  
**Lead Free** 1734779

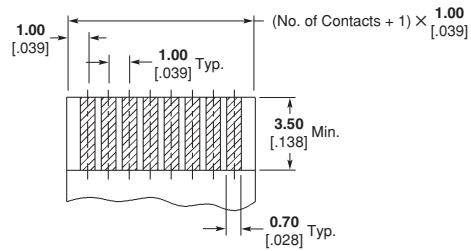
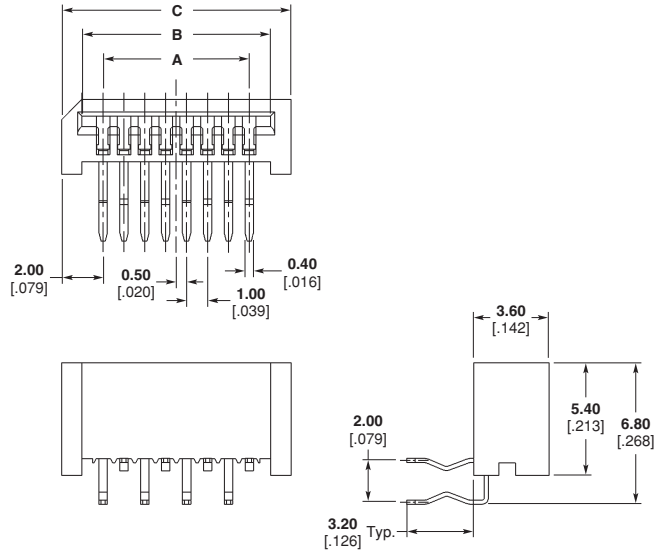
**Material and Finish**

**Housing** — Thermoplastic, UL 94V-0,  
black color

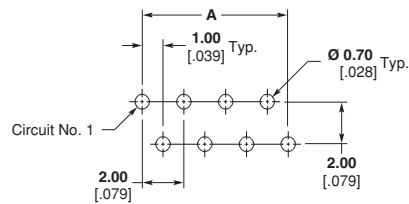
**Contacts** — Phosphor bronze

**Technical Documents**

**Product Specification** — 108-57354



**Recommended FPC Layout**



**Recommended PCB Layout**

**1.0 mm, FPC Connector,  
Non-ZIF, Right Angle,  
Bottom Contact, Type B**

**Part Number 1470790  
Lead Free 1734779**

**Technical Documents**  
Product Specification — 108-57354

**Product Dimensions** (Continued)

| Part Number | No. of<br>Contacts | Dimension      |                |                |
|-------------|--------------------|----------------|----------------|----------------|
|             |                    | A              | B              | C              |
| 1470790-4   | 4                  | 3.00<br>.118   | 5.05<br>.198   | 7.00<br>.276   |
| 1470790-5   | 5                  | 4.00<br>.157   | 6.05<br>.238   | 8.00<br>.315   |
| 1470790-6   | 6                  | 5.00<br>.197   | 7.05<br>.277   | 9.00<br>.354   |
| 1470790-7   | 7                  | 6.00<br>.236   | 8.05<br>.316   | 10.00<br>.394  |
| 1470790-8   | 8                  | 7.00<br>.276   | 9.05<br>.356   | 11.00<br>.433  |
| 1470790-9   | 9                  | 8.00<br>.315   | 10.05<br>.395  | 12.00<br>.472  |
| 1-1470790-0 | 10                 | 9.00<br>.354   | 11.05<br>.435  | 13.00<br>.512  |
| 1-1470790-1 | 11                 | 10.00<br>.394  | 12.05<br>.474  | 14.00<br>.551  |
| 1-1470790-2 | 12                 | 11.00<br>.433  | 13.05<br>.513  | 15.00<br>.591  |
| 1-1470790-3 | 13                 | 12.00<br>.472  | 14.05<br>.553  | 16.00<br>.630  |
| 1-1470790-4 | 14                 | 13.00<br>.512  | 15.05<br>.592  | 17.00<br>.669  |
| 1-1470790-5 | 15                 | 14.00<br>.551  | 16.05<br>.631  | 18.00<br>.709  |
| 1-1470790-6 | 16                 | 15.00<br>.591  | 17.05<br>.671  | 19.00<br>.748  |
| 1-1470790-7 | 17                 | 16.00<br>.630  | 18.05<br>.710  | 20.00<br>.787  |
| 1-1470790-8 | 18                 | 17.00<br>.669  | 19.05<br>.750  | 21.00<br>.827  |
| 1-1470790-9 | 19                 | 18.00<br>.709  | 20.05<br>.788  | 22.00<br>.866  |
| 2-1470790-0 | 20                 | 19.00<br>.748  | 21.05<br>.828  | 23.00<br>.906  |
| 2-1470790-1 | 21                 | 20.00<br>.787  | 22.05<br>.857  | 24.00<br>.945  |
| 2-1470790-2 | 22                 | 21.00<br>.827  | 23.05<br>.907  | 25.00<br>.984  |
| 2-1470790-3 | 23                 | 22.00<br>.866  | 24.05<br>.946  | 26.00<br>1.024 |
| 2-1470790-4 | 24                 | 23.00<br>.906  | 25.05<br>.986  | 27.00<br>1.063 |
| 2-1470790-5 | 25                 | 24.00<br>.945  | 26.05<br>1.025 | 28.00<br>1.102 |
| 2-1470790-6 | 26                 | 25.00<br>.984  | 27.05<br>1.064 | 29.00<br>1.142 |
| 2-1470790-7 | 27                 | 26.00<br>1.024 | 28.05<br>1.104 | 30.00<br>1.181 |
| 2-1470790-8 | 28                 | 27.00<br>1.063 | 29.05<br>1.143 | 31.00<br>1.220 |
| 2-1470790-9 | 29                 | 28.00<br>1.102 | 30.05<br>1.183 | 32.00<br>1.259 |
| 3-1470790-0 | 30                 | 29.00<br>1.142 | 31.05<br>1.222 | 33.00<br>1.299 |

**Product Dimensions** (Continued)

**1.25 mm, FFC Connector, Vertical**

**Lead Free 84534**

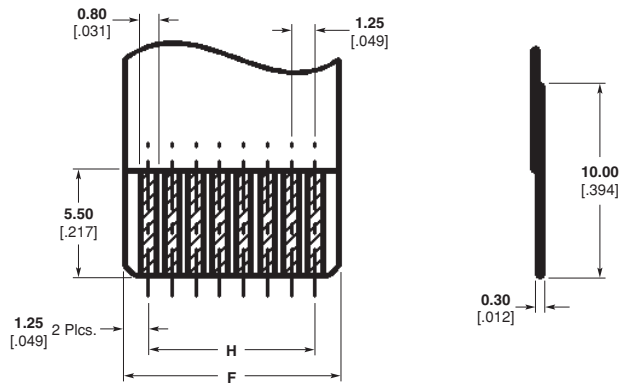
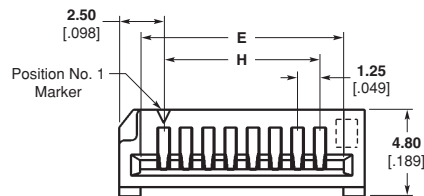
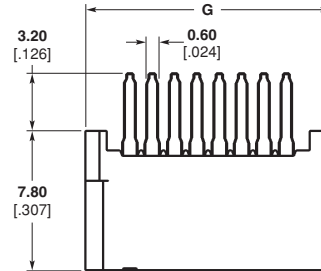
**Material and Finish**

**Housing** — Glass filled PBT, white color

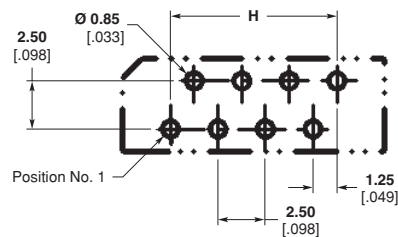
**Contact** — Phosphor bronze

**Technical Documents**

**Product Specification** — 108-51021



**Recommended FFC Layout**



**Recommended PCB Layout**

**1.25 mm, FFC Connector,  
Vertical**

**Lead Free      84534**

**Technical Documents**  
**Product Specification — 108-51021**

FPC Connector Family

**Product Dimensions** (Continued)

| Part Number | No. of Contacts | Dimension      |                |                |                |
|-------------|-----------------|----------------|----------------|----------------|----------------|
|             |                 | E              | F              | G              | H              |
| 84534-4     | 4               | 6.40<br>.251   | 6.25<br>.246   | 8.75<br>.344   | 3.75<br>.147   |
| 84534-5     | 5               | 7.65<br>.301   | 7.50<br>.295   | 10.00<br>.393  | 5.00<br>.196   |
| 84534-6     | 6               | 8.90<br>.350   | 8.75<br>.344   | 11.25<br>.442  | 6.25<br>.246   |
| 84534-7     | 7               | 10.15<br>.399  | 10.00<br>.393  | 12.50<br>.492  | 7.50<br>.295   |
| 84534-8     | 8               | 11.40<br>.448  | 11.25<br>.442  | 13.75<br>.541  | 8.75<br>.344   |
| 84534-9     | 9               | 12.65<br>.498  | 12.50<br>.492  | 15.00<br>.590  | 10.00<br>.393  |
| 1-84534-0   | 10              | 13.90<br>.547  | 13.75<br>.541  | 16.25<br>.639  | 11.25<br>.442  |
| 1-84534-1   | 11              | 15.15<br>.596  | 15.00<br>.590  | 17.50<br>.688  | 12.50<br>.492  |
| 1-84534-2   | 12              | 16.40<br>.645  | 16.25<br>.639  | 18.75<br>.738  | 13.75<br>.541  |
| 1-84534-3   | 13              | 17.65<br>.694  | 17.50<br>.688  | 20.00<br>.787  | 15.00<br>.590  |
| 1-84534-4   | 14              | 18.90<br>.744  | 18.75<br>.738  | 21.25<br>.836  | 16.25<br>.639  |
| 1-84534-5   | 15              | 20.15<br>.793  | 20.00<br>.787  | 22.50<br>.885  | 17.50<br>.688  |
| 1-84534-6   | 16              | 21.40<br>.842  | 21.25<br>.836  | 23.75<br>.935  | 18.75<br>.738  |
| 1-84534-7   | 17              | 22.65<br>.891  | 22.50<br>.885  | 25.00<br>.984  | 20.00<br>.787  |
| 1-84534-8   | 18              | 23.90<br>.940  | 23.75<br>.935  | 26.25<br>1.033 | 21.25<br>.836  |
| 1-84534-9   | 19              | 25.15<br>.990  | 25.00<br>.984  | 27.50<br>1.082 | 22.50<br>.885  |
| 2-84534-0   | 20              | 26.40<br>1.039 | 26.25<br>1.033 | 28.75<br>1.131 | 23.75<br>.935  |
| 2-84534-1   | 21              | 27.65<br>1.088 | 27.50<br>1.082 | 30.00<br>1.181 | 25.00<br>.984  |
| 2-84534-2   | 22              | 28.90<br>1.137 | 28.75<br>1.131 | 31.25<br>1.230 | 26.25<br>1.033 |
| 2-84534-3   | 23              | 30.15<br>1.187 | 30.00<br>1.181 | 32.50<br>1.279 | 27.50<br>1.082 |
| 2-84534-4   | 24              | 31.40<br>1.236 | 31.25<br>1.230 | 33.75<br>1.328 | 28.75<br>1.131 |
| 2-84534-5   | 25              | 32.65<br>1.285 | 32.50<br>1.279 | 35.00<br>1.377 | 30.00<br>1.181 |
| 2-84534-6   | 26              | 33.90<br>1.334 | 33.75<br>1.328 | 36.25<br>1.427 | 31.25<br>1.230 |
| 2-84534-7   | 27              | 35.15<br>1.383 | 35.00<br>1.377 | 37.50<br>1.476 | 32.50<br>1.279 |
| 2-84534-8   | 28              | 36.40<br>1.433 | 36.25<br>1.427 | 38.75<br>1.525 | 33.75<br>1.328 |
| 2-84534-9   | 29              | 37.65<br>1.482 | 37.50<br>1.476 | 40.00<br>1.574 | 35.00<br>1.377 |
| 3-84534-0   | 30              | 38.90<br>1.531 | 38.75<br>1.525 | 41.25<br>1.624 | 36.25<br>1.427 |
| 3-84534-1   | 31              | 40.15<br>1.580 | 40.00<br>1.574 | 42.50<br>1.673 | 37.50<br>1.476 |
| 3-84534-2   | 32              | 41.40<br>1.629 | 41.25<br>1.624 | 43.75<br>1.722 | 38.75<br>1.525 |
| 3-84534-3   | 33              | 42.65<br>1.679 | 42.50<br>1.673 | 45.00<br>1.771 | 40.00<br>1.574 |
| 3-84534-4   | 34              | 43.90<br>1.728 | 43.75<br>1.722 | 46.25<br>1.820 | 41.25<br>1.624 |
| 3-84534-5   | 35              | 45.15<br>1.777 | 45.00<br>1.771 | 47.50<br>1.870 | 42.50<br>1.673 |
| 3-84534-6   | 36              | 46.40<br>1.826 | 46.25<br>1.820 | 48.75<br>1.919 | 43.75<br>1.722 |
| 3-84534-7   | 37              | 47.65<br>1.875 | 47.50<br>1.870 | 50.00<br>1.968 | 45.00<br>1.771 |
| 3-84534-8   | 38              | 48.90<br>1.925 | 48.75<br>1.919 | 51.25<br>2.017 | 46.25<br>1.820 |
| 3-84534-9   | 39              | 50.15<br>1.974 | 50.00<br>1.968 | 52.50<br>2.066 | 47.50<br>1.870 |
| 4-84534-0   | 40              | 51.40<br>2.023 | 51.25<br>2.017 | 53.75<br>2.116 | 48.75<br>1.919 |

**Product Dimensions** (Continued)

**1.25 mm, FFC Connector,  
Right Angle, Top Contact  
Non-ZIF**

**Lead Free 84533**

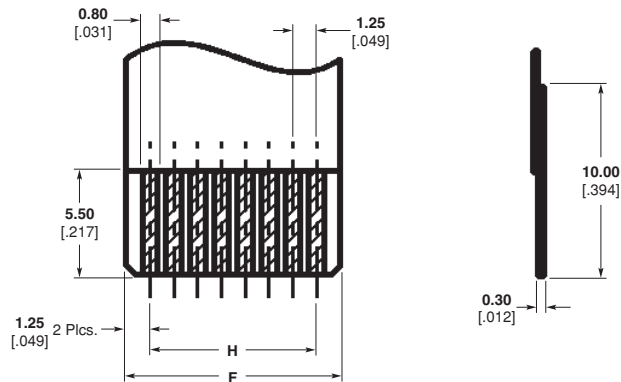
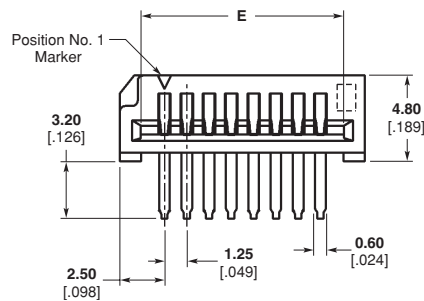
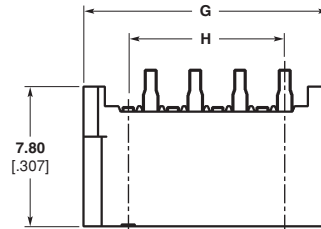
**Material and Finish**

**Housing** — Glass filled PBT, white color

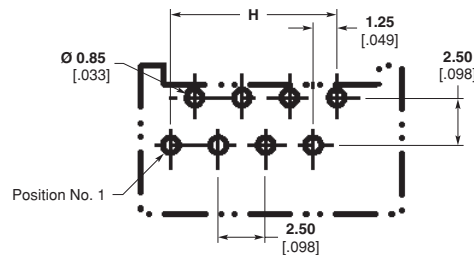
**Contact** — Post plated tin phosphor bronze

**Technical Documents**

**Product Specification** — 108-51021



**Recommended FFC Layout**



**Recommended PCB Layout**

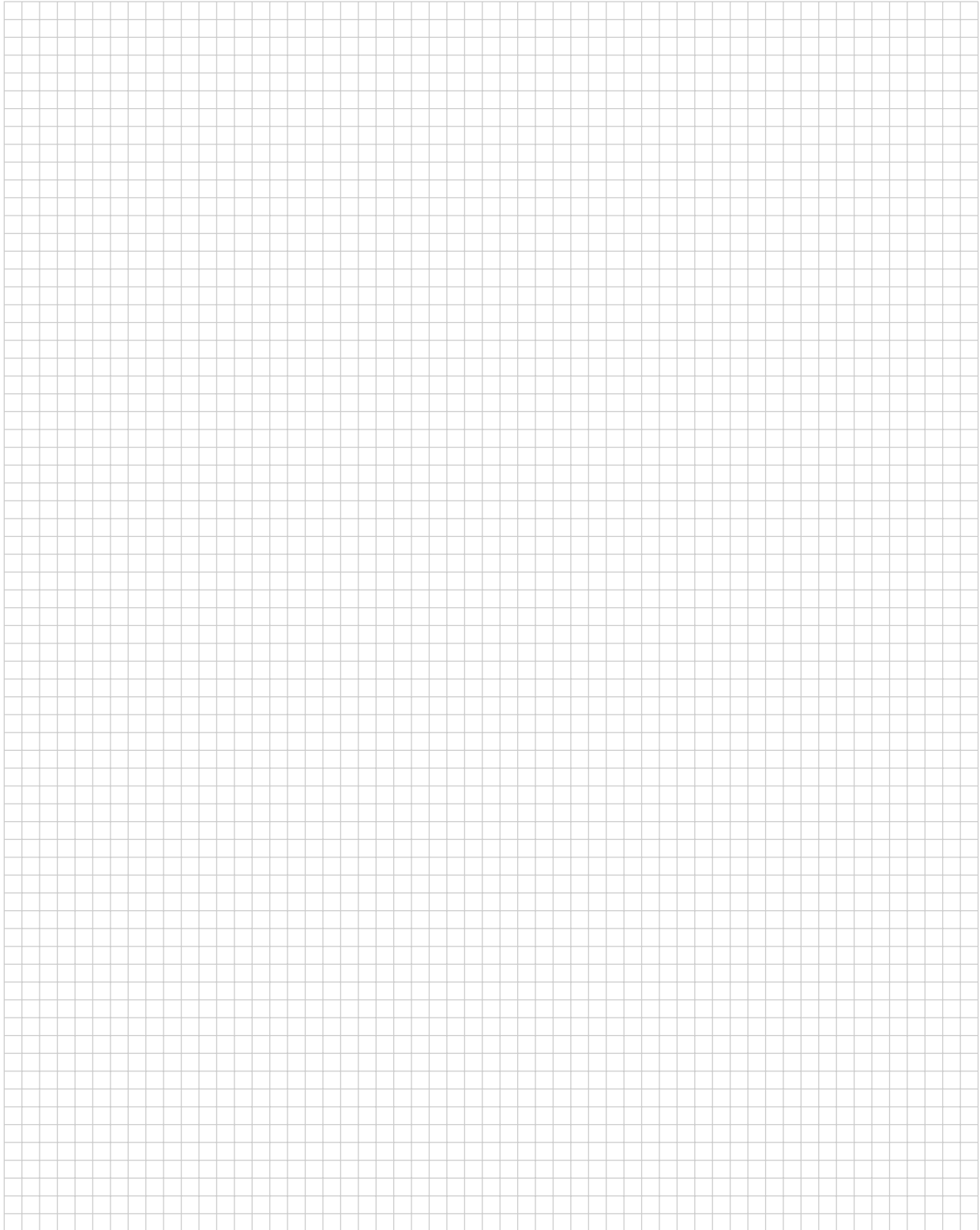
**1.25 mm, FFC Connector,  
Right Angle, Top Contact  
Non-ZIF**

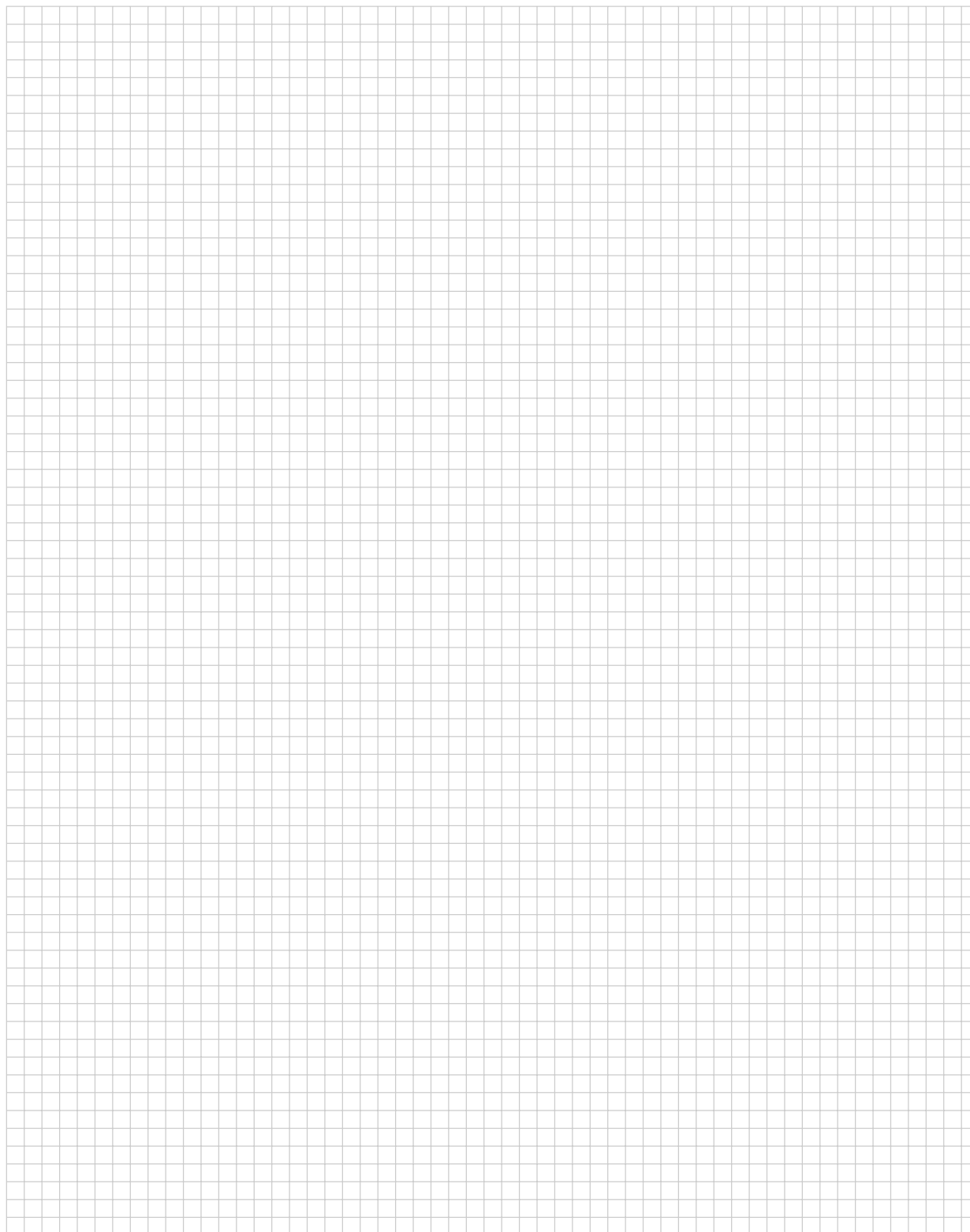
**Lead Free 84533**

**Technical Documents**  
Product Specification — 108-51021

**Product Dimensions** (Continued)

| Part Number | No. of Contacts | Dimension      |                |                |                |
|-------------|-----------------|----------------|----------------|----------------|----------------|
|             |                 | E              | F              | G              | H              |
| 84533-4     | 4               | 6.40<br>.251   | 6.25<br>.246   | 8.75<br>.344   | 3.75<br>.147   |
| 84533-5     | 5               | 7.65<br>.301   | 7.50<br>.295   | 10.00<br>.393  | 5.00<br>.196   |
| 84533-6     | 6               | 8.90<br>.350   | 8.75<br>.344   | 11.25<br>.442  | 6.25<br>.246   |
| 84533-7     | 7               | 10.15<br>.399  | 10.00<br>.393  | 12.50<br>.492  | 7.50<br>.295   |
| 84533-8     | 8               | 11.40<br>.448  | 11.25<br>.442  | 13.75<br>.541  | 8.75<br>.344   |
| 84533-9     | 9               | 12.65<br>.498  | 12.50<br>.492  | 15.00<br>.590  | 10.00<br>.393  |
| 1-84533-0   | 10              | 13.90<br>.547  | 13.75<br>.541  | 16.25<br>.639  | 11.25<br>.442  |
| 1-84533-1   | 11              | 15.15<br>.596  | 15.00<br>.590  | 17.50<br>.688  | 12.50<br>.492  |
| 1-84533-2   | 12              | 16.40<br>.645  | 16.25<br>.639  | 18.75<br>.738  | 13.75<br>.541  |
| 1-84533-3   | 13              | 17.65<br>.694  | 17.50<br>.688  | 20.00<br>.787  | 15.00<br>.590  |
| 1-84533-4   | 14              | 18.90<br>.744  | 18.75<br>.738  | 21.25<br>.836  | 16.25<br>.639  |
| 1-84533-5   | 15              | 20.15<br>.793  | 20.00<br>.787  | 22.50<br>.885  | 17.50<br>.688  |
| 1-84533-6   | 16              | 21.40<br>.842  | 21.25<br>.836  | 23.75<br>.935  | 18.75<br>.738  |
| 1-84533-7   | 17              | 22.65<br>.891  | 22.50<br>.885  | 25.00<br>.984  | 20.00<br>.787  |
| 1-84533-8   | 18              | 23.90<br>.940  | 23.75<br>.935  | 26.25<br>1.033 | 21.25<br>.836  |
| 1-84533-9   | 19              | 25.15<br>.990  | 25.00<br>.984  | 27.50<br>1.082 | 22.50<br>.885  |
| 2-84533-0   | 20              | 26.40<br>1.039 | 26.25<br>1.033 | 28.75<br>1.131 | 23.75<br>.935  |
| 2-84533-1   | 21              | 27.65<br>1.088 | 27.50<br>1.082 | 30.00<br>1.181 | 25.00<br>.984  |
| 2-84533-2   | 22              | 28.90<br>1.137 | 28.75<br>1.131 | 31.25<br>1.230 | 26.25<br>1.033 |
| 2-84533-3   | 23              | 30.15<br>1.187 | 30.00<br>1.181 | 32.50<br>1.279 | 27.50<br>1.082 |
| 2-84533-4   | 24              | 31.40<br>1.236 | 31.25<br>1.230 | 33.75<br>1.328 | 28.75<br>1.131 |
| 2-84533-5   | 25              | 32.65<br>1.285 | 32.50<br>1.279 | 35.00<br>1.377 | 30.00<br>1.181 |
| 2-84533-6   | 26              | 33.90<br>1.334 | 33.75<br>1.328 | 36.25<br>1.427 | 31.25<br>1.230 |
| 2-84533-7   | 27              | 35.15<br>1.383 | 35.00<br>1.377 | 37.50<br>1.476 | 32.50<br>1.279 |
| 2-84533-8   | 28              | 36.40<br>1.433 | 36.25<br>1.427 | 38.75<br>1.525 | 33.75<br>1.328 |
| 2-84533-9   | 29              | 37.65<br>1.482 | 37.50<br>1.476 | 40.00<br>1.574 | 35.00<br>1.377 |
| 3-84533-0   | 30              | 38.90<br>1.531 | 38.75<br>1.525 | 41.25<br>1.624 | 36.25<br>1.427 |
| 3-84533-1   | 31              | 40.15<br>1.580 | 40.00<br>1.574 | 42.50<br>1.673 | 37.50<br>1.476 |
| 3-84533-2   | 32              | 41.40<br>1.629 | 41.25<br>1.624 | 43.75<br>1.722 | 38.75<br>1.525 |
| 3-84533-3   | 33              | 42.65<br>1.679 | 42.50<br>1.673 | 45.00<br>1.771 | 40.00<br>1.574 |
| 3-84533-4   | 34              | 43.90<br>1.728 | 43.75<br>1.722 | 46.25<br>1.820 | 41.25<br>1.624 |
| 3-84533-5   | 35              | 45.15<br>1.777 | 45.00<br>1.771 | 47.50<br>1.870 | 42.50<br>1.673 |
| 3-84533-6   | 36              | 46.40<br>1.826 | 46.25<br>1.820 | 48.75<br>1.919 | 43.75<br>1.722 |
| 3-84533-7   | 37              | 47.65<br>1.875 | 47.50<br>1.870 | 50.00<br>1.968 | 45.00<br>1.771 |
| 3-84533-8   | 38              | 48.90<br>1.925 | 48.75<br>1.919 | 51.25<br>2.017 | 46.25<br>1.820 |
| 3-84533-9   | 39              | 50.15<br>1.974 | 50.00<br>1.968 | 52.50<br>2.066 | 47.50<br>1.870 |
| 4-84533-0   | 40              | 51.40<br>2.023 | 51.25<br>2.017 | 53.75<br>2.116 | 48.75<br>1.919 |





### Americas

**Argentina** – Buenos Aires  
Phone: +54-11-4733-2200  
Fax: +54-11-4733-2211

**Brasil** – São Paulo  
Phone: +55-11-3611-1311  
Fax: +55-11-3611-0397

**Canada** – Markham  
Phone: +905-475-6222  
Fax: +905-474-5520

**Product Information Center:**  
(Technical Support)  
Phone: +905-470-4425  
Fax: +905-474-5525

**Colombia** – Bogota  
Phone: +57-1-231-9398  
Fax: +57-1-660-0206

**Mexico** – Mexico City  
Phone: +52-5-729-0400  
Fax: +52-5-361-8545

**United States** – Harrisburg, PA  
Phone: +717-564-0100  
Fax: +717-986-7575  
**Product Information Center:**  
(Technical Support)  
Phone: +800-522-6752  
Fax: +717-986-7575

**For Latin/South American Countries not shown**  
Phone: +54-11-4733-2015  
Fax: +54-11-4733-2083

### Asia/Pacific

**Australia** – Sydney  
Phone: +61-2-9554-2600  
Fax: +61-2-9502-2556  
**Product Information Center:**  
(Technical Support)  
Phone: +61-2-9840-8200  
Fax: +61-2-9634-6188

**India** – Bangalore  
Phone: +91-80-285-40800  
Fax: +91-80-285-40820

**Indonesia** – Jakarta  
Phone: +65-6482-0311  
Fax: +65-6482-1012

**Japan** – Tokyo  
Phone: +81-44-844-8111  
Fax: +81-44-812-3207  
**Product Information Center:**  
(Technical Support)  
Phone: +81-44-844-8013  
Fax: +81-44-812-3200  
**Raychem Products**  
Phone: +81-44-900-5102  
Fax: +81-44-5025-5027

**Korea** – Seoul  
Phone: +82-2-3415-4500  
Fax: +82-2-3486-3810

**Malaysia** – Kuala Lumpur  
Phone: +60-3-78053055  
Fax: +60-3-78053066

**New Zealand** – Auckland  
Phone: +64-9-634-4580  
Fax: +64-9-634-4586

**Philippines** – Makati City  
Phone: +632-848-0171  
Fax: +632-867-8661

**People's Republic of China**  
Hong Kong  
Phone: +852-2735-1628  
Fax: +852-2735-0243  
Shanghai  
Phone: +86-21-53838188/64850602  
Fax: +86-21-53838018/54260180

Shunde  
Phone: +86-765-775-1368  
Fax: +86-765-775-2823

### Europe/Middle East/Africa

**Austria** – Vienna  
Phone: +43-190-560-0  
Fax: +43-190-560-1333

**Belgium** – Kessel-Lo  
Phone: +32-16-35-23-00  
Fax: +32-16-35-23-52

**Bulgaria** – Sofia  
Phone: +359-2-971-2152  
Fax: +359-2-971-2153

**Czech Republic** – Kurim  
Phone: +420-5-41-162-111  
Fax: +420-5-41-162-223

**Denmark** – Viby J  
Phone: +45-70-15-52-00  
Fax: +45-43-44-14-14

**Egypt** – Cairo  
Phone: +20-2-417-76-47  
Fax: +20-2-419-23-34

**Estonia** – Tallinn  
Phone: +372-65-05-474  
Fax: +372-65-05-470

**Finland** – Helsinki  
Phone: +358-95-12-34-20  
Fax: +358-95-12-34-250

**France** – Cergy-Pontoise  
Phone: +33-1-3420-8888  
Fax: +33-1-3420-8600  
**Product Information Center:**  
(Technical Support)  
Phone: +33-1-3420-8943  
Fax: +33-1-3420-8623

**France**  
**Tyco Electronics Export** – St Ouen L'Aumone  
Phone: +33-1-3440-7200  
Fax: +33-1-3440-7220 or +33-1-3440-7230

**Germany** – Bensheim  
Phone: +49-6251-133-0  
Fax: +49-6251-133-1600  
**Product Information Center:**  
(Technical Support)  
Phone: +49-6251-133-1999  
Fax: +49-6251-133-1988

**Germany** – Langen  
Phone: +49-6103-709-0  
Fax: +49-6103-709-1223

**Germany** – Speyer  
Phone: +49-6232-30-0  
Fax: +49-6232-30-2243

**Germany**  
**HTS Division** – Neunkirchen  
Phone: +49-2247-305-0  
Fax: +49-2247-305-122

**Great Britain** – Stanmore Middlesex  
Phone: +44-208-954-2356  
Fax: +44-208-954-6234  
**Product Information Center:**  
(Technical Support)  
Freephone GB: 0800-267-666  
Phone: +44-141 810 8968  
Fax: +44-141 810 8971  
**Great Britain** – Dorcan, Swindon  
**Raychem Products**  
Phone: +44-1793-528171  
Fax: +44-1793-572516

**Greece** – Athens  
Phone: +30-1-9370-396/397  
Fax: +30-1-9370-655

**Hungary** – Budapest  
Phone: +36-1-289-1000  
Fax: +36-1-289-1010

**Ireland** – Dublin  
Phone: +353-1-820-3000  
Fax: +353-1-820-9790

**Israel** – Yokneam  
Phone: +972-4-959-0508  
Fax: +972-4-959-0506

**Italy** – Collegno (Torino)  
Phone: +39-011-4012-111  
Fax: +39-011-4031-116

**Lithuania** – Vilnius  
Phone: +370-5-2131-402  
Fax: +370-5-2131-403

**Netherlands** – 's-Hertogenbosch  
Phone: +31-73-624-6246  
Fax: +31-73-621-2365  
**Product Information Center:**  
(Technical Support)  
Phone: +31-73-6246-999  
Fax: +31-73-6246-998

**Norway** – Nesbru  
Phone: +47-66-77-8899  
Fax: +47-66-77-8855

**Poland** – Warsaw  
Phone: +48-22-45-76-700  
Fax: +48-22-45-76-720

**Romania** – Bucharest  
Phone: +40-1-311-3479/3596  
Fax: +40-1-312-0574

**Russia** – Moscow  
Phone: +7-095-926-5506/07/08/09  
Fax: +7-095-926-5505

**Russia** – St. Petersburg  
Phone: +7-812-118-8192  
Fax: +7-812-118-8193

**Slovakia** – Banská Bystrica  
Phone: +421-48-415-20-11/12  
Fax: +421-48-415-20-13

**Slovenia** – Ljubljana  
Phone: +386-1561-3270  
Fax: +386-1561-3240

**South Africa** – Port Elizabeth  
Phone: +27-41-405-4500  
Fax: +27-41-486-1314

**Spain** – Barcelona  
Phone: +34-93-291-0330  
Fax: +34-93-201-7879  
**Product Information Center:**  
(Technical Support)  
Phone: +34-93-291-0330  
Fax: +34-93-200-3779

**Sweden** – Upplands Väsby  
Phone: +46-8-50-72-50-00  
Fax: +46-8-50-72-50-01

**Switzerland** – Steinach  
Phone: +41-71-447-0447  
Fax: +41-71-447-0444

**Turkey** – Istanbul  
Phone: +90-212-281-8181/2/3  
Fax: +90-212-281-8184

**Ukraine** – Kiev  
Phone: +38-044-238-6908  
Fax: +38-044-568-5740

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