3M™ Pak 100 4-Wall Header
.100” × .100” Latch/Ejector, Straight and Right Angle, High Temp Option  3000 Series

- Military (with 3M’s 3518 polarizing key) and centerbump polarization
- Optional ejector latches
- Mounting holes for securing header to board
- Solder tail and wrap tail options
- Optional polarizing posts
- High temperature option

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**Physical**

**Insulation**
- **Material:** Glass Filled Polyester (PBT)
  Glass Filled Polyester (PCT — High Temp Option)
- **Flammability:** UL 94V-0
- **Color:** Gray, Standard
  Beige (High Temp Option)

**Contact**
- **Material:** Copper Alloy

**Plating**
- **Underplate:** 100 µ” [2.54 µm] Nickel — QQ-N-290, Class 2
- **Wiping Area:** Gold — MIL-G-45204, Type II, Grade C
- **Solder Tails:** 200 µ” [5.08 µm] 60/40 Tin Lead — MIL-P-81728
- **Wrap Tails:** Gold Flash, Standard

**Marking:** 3M Logo, Part Identification Number and Orientation Triangle

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**Electrical**

- **Current Rating:** 1 A
- **Insulation Resistance:** $>1 \times 10^9$ Ω at 500 V dc
- **Withstanding Voltage:** 1000 Vrms at Sea Level

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**Environmental**

- **Temperature Rating:** -55°C to +105°C
- **High Temp Process Rating:** Maximum 235°C, with 90 seconds over 215°C

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**UL File No.: E68080**

3M is a trademark of 3M Company.
For technical, sales or ordering information call
800-225-5373
3M™ Pak 100 4-Wall Header
.100” × .100” Latch/Ejector, Straight and Right Angle, High Temp Option 3000 Series

- X0XX
  Header with No Ejector/Latch

- X5XX
  Header with Short Ejector/Latch for 3M Sockets without Strain Relief

- X6XX
  Header with Long Ejector/Latch for 3M Sockets with Strain Relief

- X4XX
  Header with Ejector only

Note: This Ejector is a Nickel Plated Zinc Alloy Casting.

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http://www.3M.com/interconnects/
### Table 1

<table>
<thead>
<tr>
<th>Pin Quantity</th>
<th>3M Part Number</th>
<th>Dimensions</th>
<th>Polarization Notches Provided</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>14</td>
<td>3314</td>
<td>1.46 [37.2]</td>
<td>1.305 [33.15]</td>
</tr>
<tr>
<td>20</td>
<td>3428</td>
<td>1.76 [44.8]</td>
<td>1.605 [40.77]</td>
</tr>
<tr>
<td>30</td>
<td>3440</td>
<td>2.26 [57.4]</td>
<td>2.105 [53.47]</td>
</tr>
<tr>
<td>34</td>
<td>3431</td>
<td>2.46 [62.6]</td>
<td>2.305 [58.55]</td>
</tr>
<tr>
<td>40</td>
<td>3432</td>
<td>2.76 [70.2]</td>
<td>2.605 [66.17]</td>
</tr>
<tr>
<td>50</td>
<td>3433</td>
<td>3.26 [82.9]</td>
<td>3.105 [78.87]</td>
</tr>
<tr>
<td>64</td>
<td>3764</td>
<td>3.96 [100.7]</td>
<td>3.805 [96.65]</td>
</tr>
</tbody>
</table>

### Table 2

<table>
<thead>
<tr>
<th>3M Part Number Suffix</th>
<th>Contact Tail</th>
<th>Dimension E</th>
<th>Pin Cross Section</th>
<th>Dimension F</th>
<th>Corner Radii</th>
<th>Dimension G</th>
</tr>
</thead>
<tbody>
<tr>
<td>-5XX2 -6XX2</td>
<td>Solder Tail for .062 [1.57] Thick PC Board</td>
<td>.112 [2.84]</td>
<td>.0245 ± .0005 [0.622]</td>
<td>.028 ± .001 [0.71]</td>
<td>.0075 Ref [0.191]</td>
<td>.035 ± .003 [0.89] (See Note 3)</td>
</tr>
<tr>
<td>-5X03 -6X03</td>
<td>Solder Tail for .094 [2.39] to .125 [3.18] Thick PC Board</td>
<td>.155 [3.94]</td>
<td>.0245 ± .0005 [0.622]</td>
<td>.028 ± .001 [0.71]</td>
<td>.0075 Ref [0.191]</td>
<td>.035 ± .003 [0.89]</td>
</tr>
<tr>
<td>-5X05 -6X05</td>
<td>Wire Wrap Tail for up to 3 Levels of Wire Wrap</td>
<td>.61 Ref [15.5]</td>
<td>.0250 ± .002 [0.635]</td>
<td>.035 ± .003 [0.90]</td>
<td>.003 Max [0.08]</td>
<td>.045 ± .003 [1.14]</td>
</tr>
</tbody>
</table>

### Notes:
1. Notches A & C will accommodate 3M Polarizing Keys (3M Part #N3518).
2. Accepts Rear and Front mounting hardware:
   - Rear Entry: #4-24 thread cutting screw, 3M Part #3341-5, .116 [2.95] dia mounting hole
   - Front Entry: (Prior to installation of latch on Straight Versions) #2-56 bolt and nut, 3M Part #3341-6, .106 [2.69] dia mounting hole
3. The recommended PCB hole size for the kinked tail positions on the .112 solder tail connector is .035 ± .002. Refer to TS-0972 for the positions kinked.

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**Recommended Mounting Hole Pattern**

**(Straight)**

**Recommended Mounting Hole Pattern**

**(Right Angle)**

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**3M™ Pak 100 4-Wall Header**

.100” × .100” Latch/Ejector, Straight and Right Angle, High Temp Option 3000 Series
Ordering Information

30 Microinches Gold Plated Product

3M Part Number (See Table 1)

Shroud and Pin Configuration
5 = 4 Wall, Right Angle
6 = 4 Wall, Straight

Latch/Ejector System
0 = No Latch/Ejector
4 = Roll Pin Ejectors (3M Part #3505-4)
5 = Short, Snap-In Latch/Ejectors, (3M Part #3505-30)
6 = Long, Snap-In Latch/Ejectors (3M Part #3505-31)

Tail
02 = Solder Tail for .062 [1.57] Thick Board
K2 = Kinked Solder Tails for .062 [1.57] Thick Board
03 = Solder Tails for .094 to .125 [2.39 to 3.18] Thick Board
05 = Wrap Posts for up to 3 levels of Wire Wrap (Not available on High Temp version.)

Product Material:
N = High Temp
Blank = Standard

15 Microinches Gold Plated Product

3M Part Number (See Table 1)

Shroud and Pin Configuration
5 = 4 Wall, Right Angle
6 = 4 Wall, Straight

Plating Suffix UG = 15 microinch Gold

Latch/Ejector System
0 = No Latch/Ejector
5 = Short, Snap-In Latch/Ejectors (3M Part #3505-30)
6 = Long, Snap-In Latch/Ejectors (3M Part #3505-31)

Tail
02 = Solder Tail for .062 [1.57] Thick Board
K2 = Kinked Solder Tails for .062 [1.57] Thick Board
03 = Solder Tails for .094 to .125 [2.39 to 3.18] Thick Board
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