.100” × .100” Latch/Ejector Header
3 Wall, Straight & Right Angle, High Temp Option

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Date Issued: January 18, 1998

Physical

**Insulation**
- Material: Glass Filled Polyester (PBT)
- Glass Filled Polyester (PCT — High Temp Option)
- Flammability: UL 94V-0
- Color: Gray
  - Beige (High Temp Option)
- Marking: 3M Logo, Part Identification Number and Orientation Triangle

**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

Electrical

**Current Rating:** 1 A
**Insulation Resistance:** >1 × 10^9 Ω at 500 Vdc
**Withstanding Voltage:** 1000 Vrms at Sea Level

Environmental

**Temperature Rating:** −55°C to +105°C
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Note: This Ejector is a Nickel Plated Zinc Alloy Casting.
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### 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></td>
<td>A</td>
<td>B</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>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>
</tbody>
</table>

### Table 2

<table>
<thead>
<tr>
<th>3M Part Number</th>
<th>Contact Tail</th>
<th>Dimension E</th>
<th>Pin Section</th>
<th>Corner Radii</th>
<th>Dimension G</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dimension F</td>
<td>Diagonals</td>
<td></td>
</tr>
<tr>
<td>-1XX2</td>
<td>Solder Tail for .062 [1.57] Thick PC Board</td>
<td>.112 [2.84]</td>
<td>.0245 ± .0005 [0.6222]</td>
<td>.028 ± .001 [0.71]</td>
<td>.0075 Ref [0.191]</td>
</tr>
<tr>
<td>-2XX2</td>
<td>Solder Tail for .094 [2.39] to .125 [3.18] Thick PC Board</td>
<td>.155 [3.94]</td>
<td>.0245 ± .0005 [0.6222]</td>
<td>.028 ± .001 [0.71]</td>
<td>.0075 Ref [0.191]</td>
</tr>
<tr>
<td>-1X03</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>
</tr>
<tr>
<td>-2X03</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>
</tr>
<tr>
<td>-3X05</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>
</tr>
<tr>
<td>-4X05</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>
</tr>
</tbody>
</table>

### Notes:
1. Notches A & C will accommodate 3M Polarizing Keys (3M Part #3518 or M3518).
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.

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![Recommended Mounting Hole Pattern (Straight)](image)

![Recommended Mounting Hole Pattern (Right Angle)](image)
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Ordering Information

30 Microinches Gold Plated Product

XXX-XXXX

Shroud and Pin Configuration
1 = 3 Wall, Right Angle Solder Tail
2 = 3 Wall, Straight Solder Tail
3 = 3 Wall, Right Angle Wrap Post (not available on High Temp version)
4 = 3 Wall, Straight Wrap Post

Latch/Ejector System
0 = No Latch/Ejector
2 = Short, Roll Pin Latch/Ejectors (3M Part # 3505-2)*
3 = Long, Roll Pin Latch/Ejectors (3M Part # 3505-3)*
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
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)

15 Microinches Gold Plated Product

XXX-XXXXUG

Shroud and Pin Configuration
1 = 3 Wall, Right Angle Solder Tail
2 = 3 Wall, Straight Solder Tail

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
03 = Solder Tails for .094 to .125 [2.39 to 3.18] Thick Board

Plating Suffix
UG = 15 microinch Gold

* Roll pin Latch/Ejector available only on standard version.