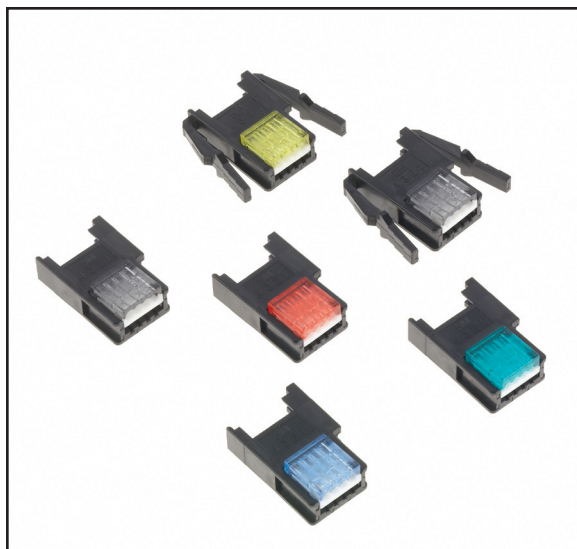


# 3M™ Mini-Clamp Socket

Designed for Wiring Supplied from Japan and Asia, 2 mm, IDC, Wiremount, Panel Mount 373 Series



- Designed to accommodate typical wiring specifications per Japanese and Asian suppliers
- Latches available for Panel Mount applications
- No special wire preparation
- Integrated cable retention
- Design accepts multiple wire size diameters
- Easy, quick, and reliable IDC termination using a standard pliers
- Debris free wire termination
- Accepts plug latches for a reliable interconnection in demanding applications
- High number of mating cycles
- Compact design helps save board and panel space
- Helps reduce maintenance work by providing higher connection reliability
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: September 18 , 2018

TS-2094-D  
Sheet 1 of 6

## Physical

### Insulation:

Material: Glass reinforced thermoplastic body and lower cover, transparent thermoplastic cover

Flammability: UL 94V-0

Color: Black body, cover—white and color (see Table 1)

**Contact Material:** Copper Alloy

### Plating:

Underplating: 2.54  $\mu\text{m}$  [100  $\mu''$ ] minimum Nickel

Wiping Area: 0.2  $\mu\text{m}$  [8  $\mu''$ ] minimum Gold with Lubricant

IDC: Nickel

Accommodation: Annealed Copper, high-strength Copper or Copper Alloy. Bare, tinned, or tin overcoated, 20 ~ 26 AWG [ 0.14 ~ 0.5 ] stranded

Wire Insulation: Flexible vinyl, semi-rigid vinyl, x-linked polyethylene, or ETFE (see Table 1)

**Marking:** 3M Logo, Position Indicator, Wire Gauge, Insulator Material

## Electrical

**Current Rating:** 3.0 Amps

**Voltage Rating:** 32 Volts

**Insulation Resistance:**  $>1 \times 10^6 \Omega$  at 600 V<sub>DC</sub>

**Withstanding Voltage:** 1,000 V<sub>RMS</sub> at sea level

## Environmental

**Temperature Rating:** 20°C to +85°C ambient (1.0 A max.)  
-20°C to +75°C ambient (2.0 A max.)  
-20°C to +60°C ambient (3.0 A max.)  
(Note: UL rating is 65°C at 3.0A, 32V)

UL File No.: E68080



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# 3M™ Mini-Clamp Socket

Designed for Wiring Supplied from Japan and Asia, 2 mm, IDC, Wiremount, Panel Mount

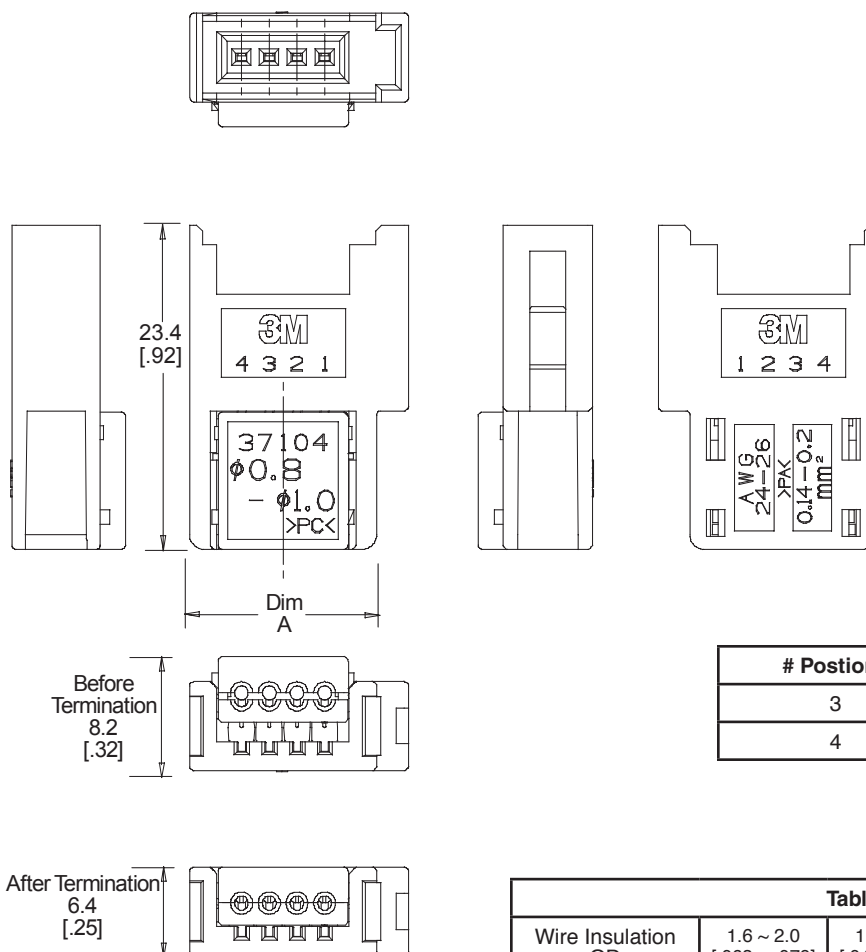
373 Series

## 3 or 4 Position No Latch

mm  
[Inch]

| Tolerance Unless Noted |     |      |
|------------------------|-----|------|
|                        | 0.0 | 0.00 |
| mm                     | ±.1 | ±.10 |

[ ] Dimensions for  
Reference only



| # Postions | Dim A      |
|------------|------------|
| 3          | 11.5 [.45] |
| 4          | 13.5 [.53] |

| Table 1             |                            |                            |                             |                            |
|---------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Wire Insulation OD  | 1.6 ~ 2.0<br>[.063 ~ .079] | 1.2 ~ 1.6<br>[.047 ~ .063] | 1.0 ~ 1.62<br>[.039 ~ .064] | 0.8 ~ 1.0<br>[.031 ~ .039] |
| Part #<br>20-22 AWG | 2206                       | 2165                       | 2124                        |                            |
| Cover Color         | Gray                       | Blue                       | Green                       |                            |
| Part #<br>24-26 AWG |                            | 3163                       | 3122                        | 3101                       |
| Cover Color         |                            | Orange                     | Yellow                      | Red                        |



## Ordering Information

**373XX - XXXX - 000 FL** (RIA E1 & C1 apply)

Positions  
03 or 04

Wire AWG & OD:  
2XXX = 20-22 AWG  
3XXX = 24-26 AWG  
OD - (see Table 1)

Note: Terminate using common pliers or 3M™ Scotchlok™ Crimping Tools E-9BM or E-9E

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Sheet 2 of 6



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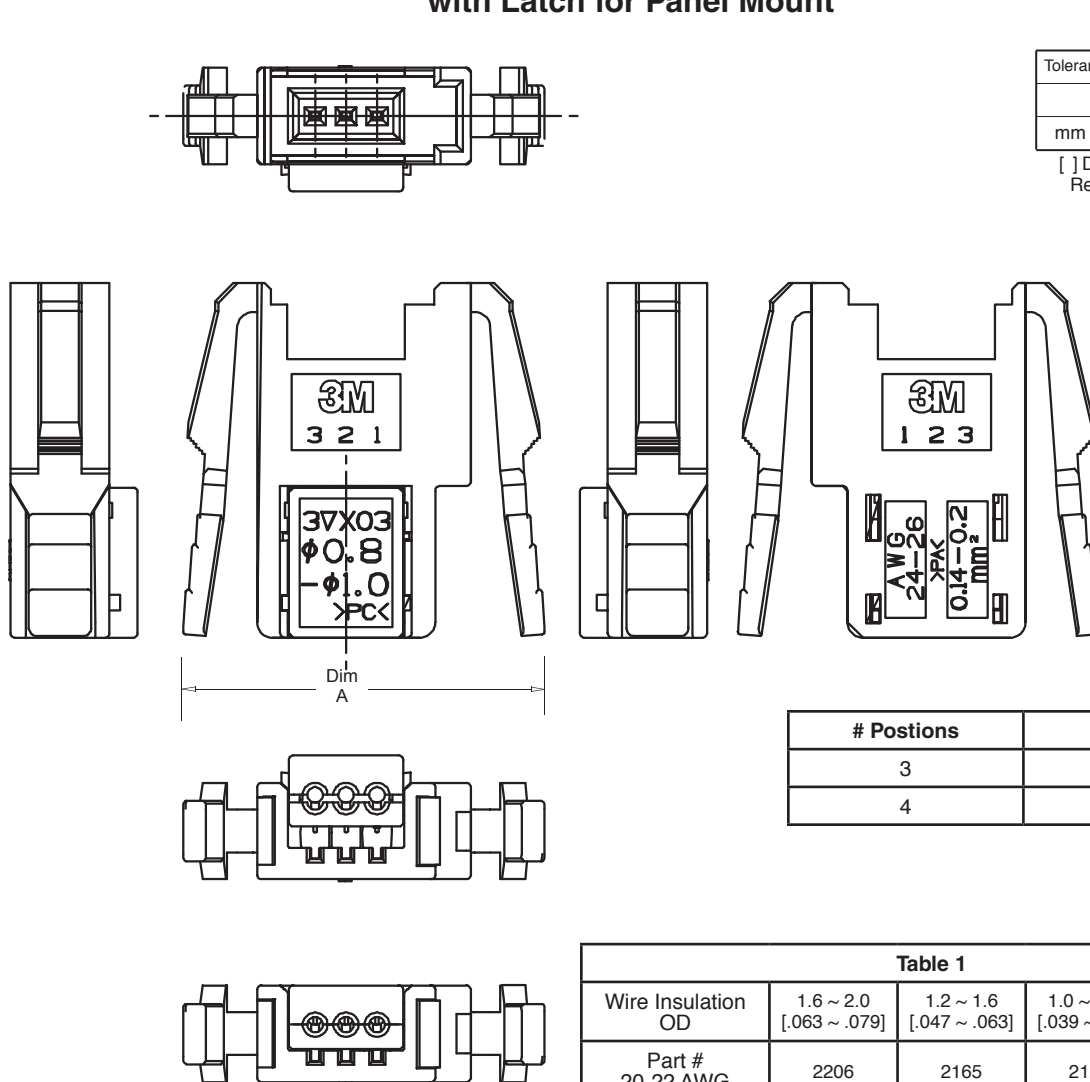
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# 3M™ Mini-Clamp Socket

Designed for Wiring Supplied from Japan and Asia, 2 mm, IDC, Wiremount, Panel Mount

373 Series

## 3 or 4 Position with Latch for Panel Mount



| mm<br>[Inch]           |     |      |
|------------------------|-----|------|
| Tolerance Unless Noted |     |      |
|                        | 0.0 | 0.00 |
| mm                     | ±.1 | ±.10 |

[ ] Dimensions for  
Reference only

| # Positions | [Dim A]    |
|-------------|------------|
| 3           | 23.4 [.92] |
| 4           | 25.4 [1.0] |

| Table 1               |                            |                            |                             |                            |
|-----------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Wire Insulation<br>OD | 1.6 ~ 2.0<br>[.063 ~ .079] | 1.2 ~ 1.6<br>[.047 ~ .063] | 1.0 ~ 1.62<br>[.039 ~ .064] | 0.8 ~ 1.0<br>[.031 ~ .039] |
| Part #<br>20-22 AWG   | 2206                       | 2165                       | 2124                        |                            |
| Cover Color           | Gray                       | Blue                       | Green                       |                            |
| Part #<br>24-26 AWG   |                            | 3163                       | 3122                        | 3101                       |
| Cover Color           |                            | Orange                     | Yellow                      | Red                        |

Note: See page 4 for panel cutout.



## Ordering Information

**373XX - XXXX - 0P0 FL** (RIA E1 & C1 apply)

Positions  
03 or 04

Wire AWG & OD:  
2XXX = 20-22 AWG  
3XXX = 24-26 AWG  
OD - (see Table 1)

Note: Terminate using common pliers or 3M™ Scotchlok™ Crimping Tools E-9BM or E-9E

TS-2094-D  
Sheet 3 of 6



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# 3M™ Mini-Clamp Socket

Designed for Wiring Supplied from Japan and Asia, 2 mm, IDC, Wiremount, Panel Mount

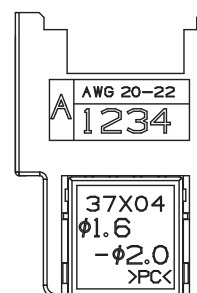
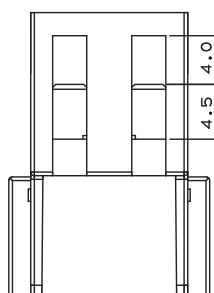
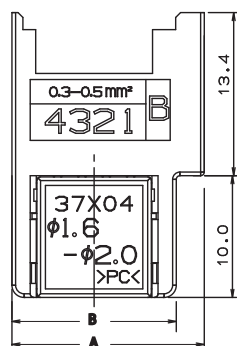
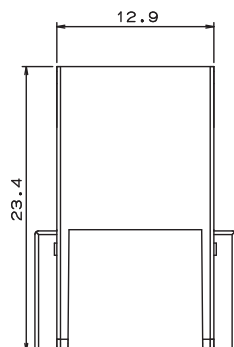
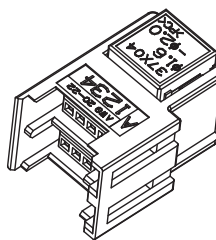
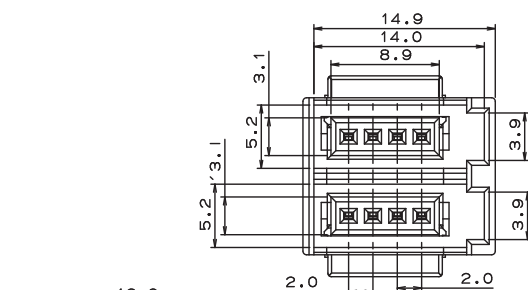
373 Series

## 6 or 8 Position No Latch

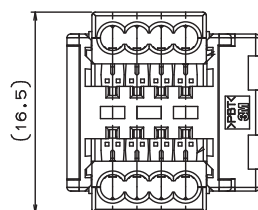
mm  
[Inch]

| Tolerance Unless Noted |     |      |
|------------------------|-----|------|
|                        | 0.0 | 0.00 |
| mm                     | ±.1 | ±.10 |

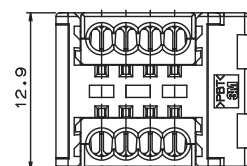
[ ] Dimensions for Reference only



Before IDC



After IDC



| # Postions | Dim A      | Dim B      |
|------------|------------|------------|
| 6 (3x2)    | 13.8 [.54] | 11.5 [.45] |
| 8 (4x2)    | 15.8 [.62] | 13.5 [.53] |

Table 1

| Wire Insulation OD | 1.6 ~ 2.0<br>[.063 ~ .079] | 1.2 ~ 1.6<br>[.047 ~ .063] | 1.0 ~ 1.62<br>[.039 ~ .064] | 0.8 ~ 1.0<br>[.031 ~ .039] |
|--------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Part # 20-22 AWG   | 2206                       | 2165                       | 2124                        |                            |
| Cover Color        | Gray                       | Blue                       | Green                       |                            |
| Part # 24-26 AWG   |                            | 3163                       | 3122                        | 3101                       |
| Cover Color        |                            | Orange                     | Yellow                      | Red                        |



## Ordering Information

**373XX - XXXX - 0W0 FL**

(RIA E1 & C1 apply)

Positions  
06 or 08

Wire AWG & OD:  
2XXX = 20-22 AWG  
3XXX = 24-26 AWG  
OD - (see Table 1)

Note: Terminate using common pliers or 3M™ Scotchlok™ Crimping Tools E-9BM or E-9E

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Sheet 4 of 6



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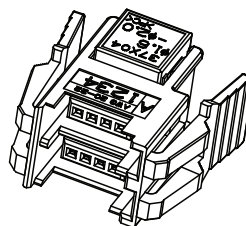
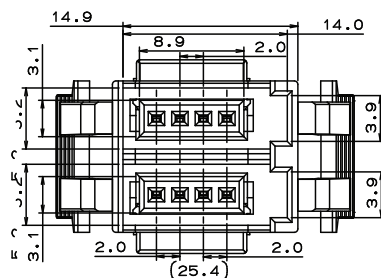
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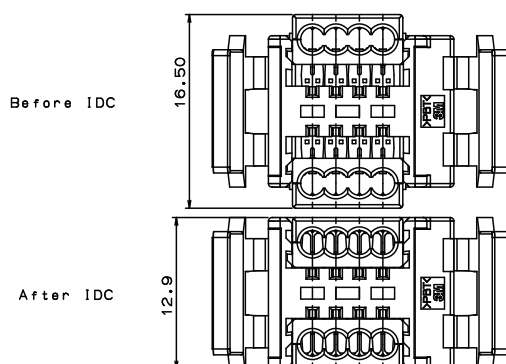
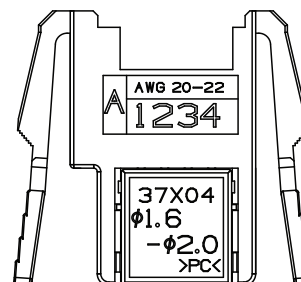
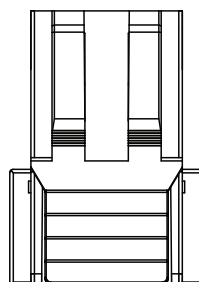
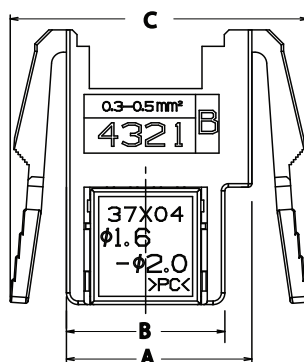
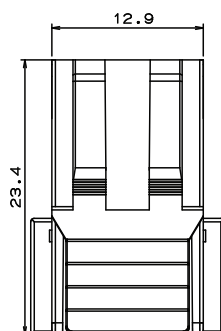
373 Series

## 6 or 8 Position with Latch for Panel Mount



| mm<br>[Inch]           |     |      |
|------------------------|-----|------|
| Tolerance Unless Noted |     |      |
|                        | 0.0 | 0.00 |
| mm                     | ±.1 | ±.10 |

[ ] Dimensions for Reference only



| # Positions | Dim A      | Dim B      | Dim C     |
|-------------|------------|------------|-----------|
| 6 (3x2)     | 13.8 [.54] | 11.5 [.45] | 23.4 Ref. |
| 8 (4x2)     | 15.8 [.62] | 13.5 [.53] | 25.4 Ref. |

Note: See page 4 for panel cutout.



| Table 1            |                            |                            |                             |                            |
|--------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Wire Insulation OD | 1.6 ~ 2.0<br>[.063 ~ .079] | 1.2 ~ 1.6<br>[.047 ~ .063] | 1.0 ~ 1.62<br>[.039 ~ .064] | 0.8 ~ 1.0<br>[.031 ~ .039] |
| Part # 20-22 AWG   | 2206                       | 2165                       | 2124                        |                            |
| Cover Color        | Gray                       | Blue                       | Green                       |                            |
| Part # 24-26 AWG   |                            | 3163                       | 3122                        | 3101                       |
| Cover Color        |                            | Orange                     | Yellow                      | Red                        |

## Ordering Information

**373XX - XXXX - 0M0 FL** (RIA E1 & C1 apply)

Positions  
06 or 08

Wire AWG & OD:  
2XXX = 20-22 AWG  
3XXX = 24-26 AWG  
OD - (see Table 1)

Note: Terminate using common pliers or 3M™ Scotchlok™ Crimping Tools E-9BM or E-9E

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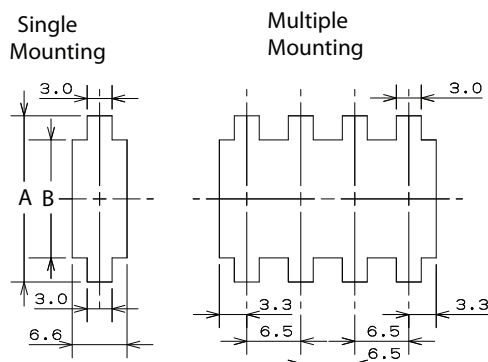
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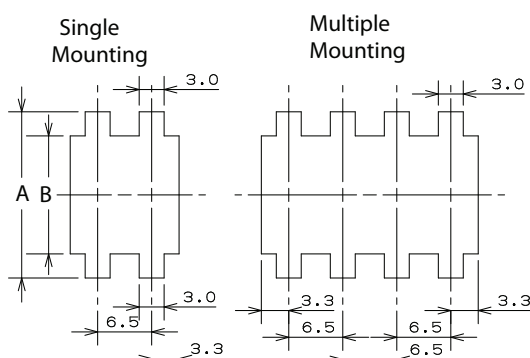
## Panel Cutouts



### 3 and 4 Pin

37303-XXXX-0P0 FL

37304-XXXX-0P0 FL



### 6 and 8 Pin

37306-XXXX-0M0 FL

37308-XXXX-0M0 FL

Table 2:

|      | Panel Thickness in mm |              |            |
|------|-----------------------|--------------|------------|
|      | 1.0 to 1.2mm          | 1.4 to 1.6mm |            |
| Pins | A                     | A            | B          |
| 03   | 20.0[0.79]            | 20.4[0.80]   | 14.2[0.56] |
| 04   | 22.0[0.87]            | 22.4[0.88]   | 16.2[0.64] |
| 06   | 20.0[0.79]            | 20.4[0.80]   | 14.2[0.56] |
| 08   | 22.0[0.87]            | 22.4[0.88]   | 16.2[0.64] |

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