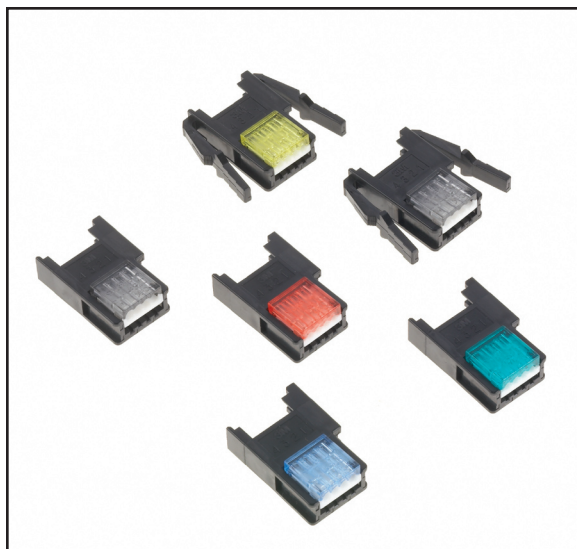


3M™ Mini-Clamp Socket

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 μm [100 μ''] minimum Nickel

Wiping Area: 0.2 μm [8 μ''] 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_{DC}

Withstanding Voltage: 1,000 V_{RMS} 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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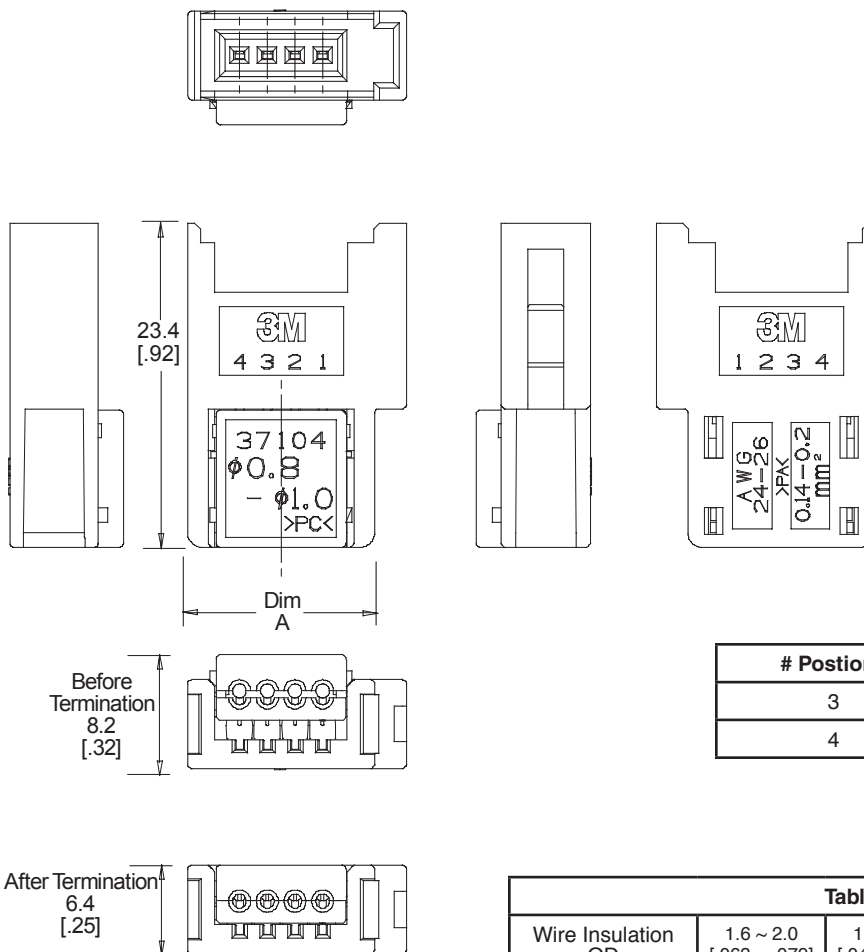
373 Series

3 or 4 Position No Latch

mm
[Inch]

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

[] Dimensions for
Reference only



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

| Table 1 | | | | |
|-----------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Wire Insulation OD | 1.6 ~ 2.0 [.063 ~ .079] | 1.2 ~ 1.6 [.047 ~ .063] | 1.0 ~ 1.62 [.039 ~ .064] | 0.8 ~ 1.0 [.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 - 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

TS-2094-D
Sheet 2 of 6



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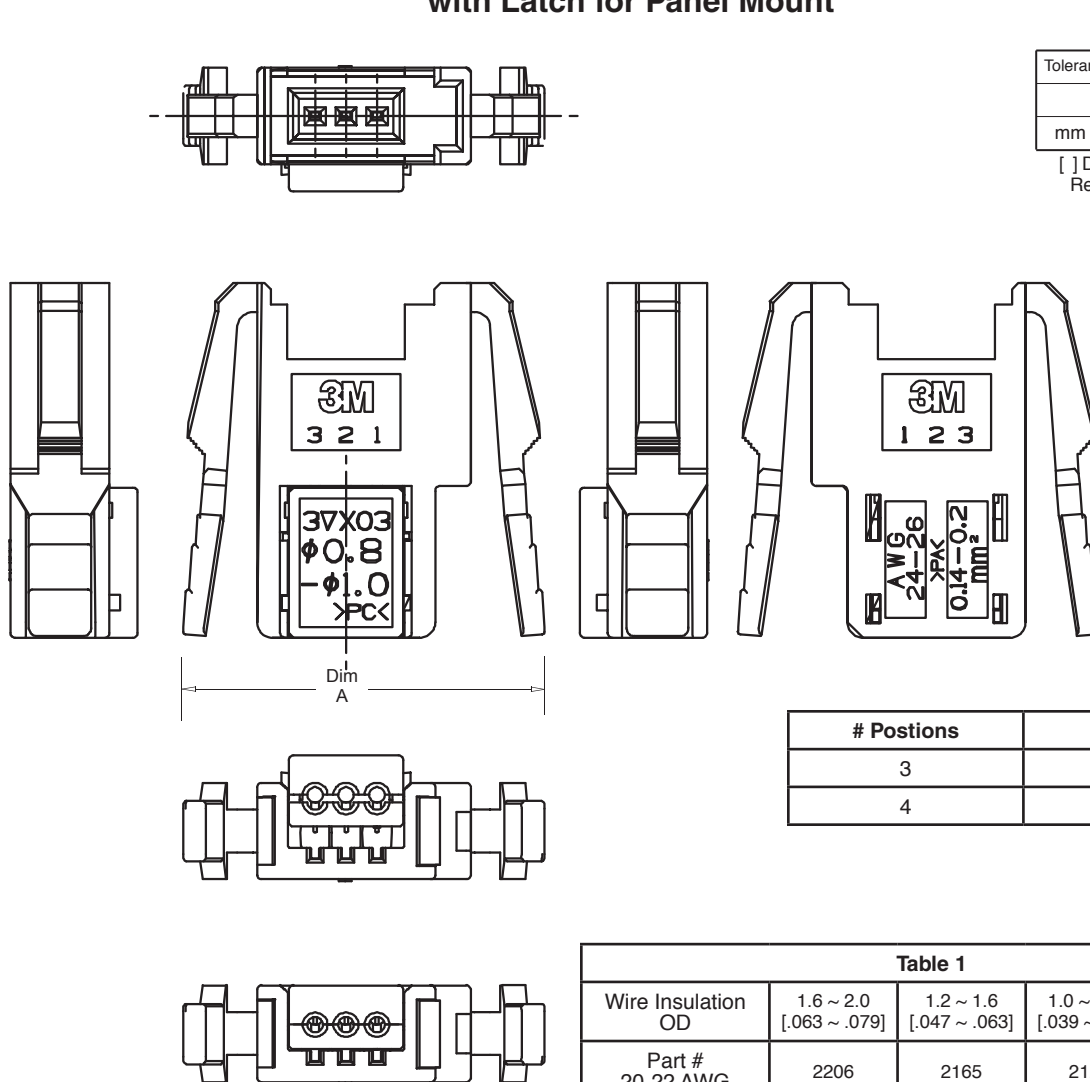
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3M™ Mini-Clamp Socket

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 [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 OD | 1.6 ~ 2.0 [.063 ~ .079] | 1.2 ~ 1.6 [.047 ~ .063] | 1.0 ~ 1.62 [.039 ~ .064] | 0.8 ~ 1.0 [.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 |

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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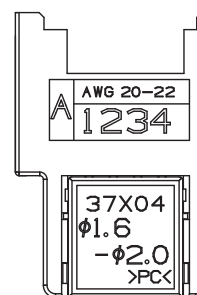
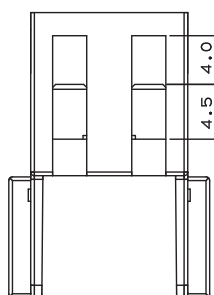
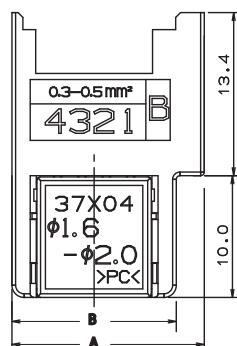
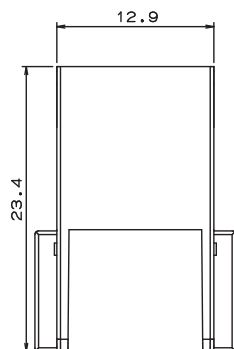
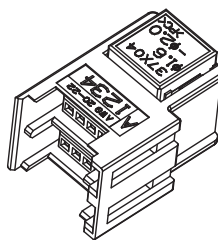
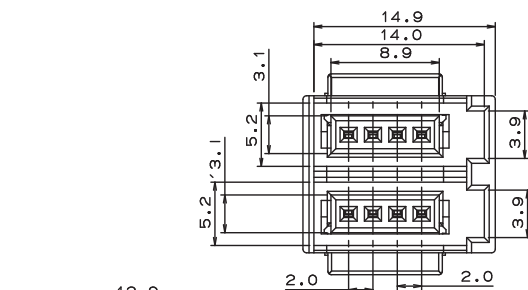
373 Series

6 or 8 Position No Latch

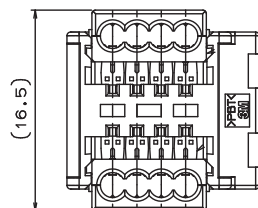
mm
[Inch]

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

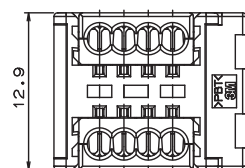
[] Dimensions for Reference only



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 [.063 ~ .079] | 1.2 ~ 1.6 [.047 ~ .063] | 1.0 ~ 1.62 [.039 ~ .064] | 0.8 ~ 1.0 [.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

TS-2094-D
Sheet 4 of 6



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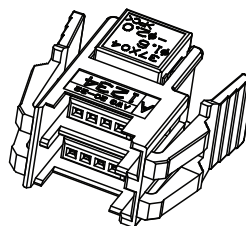
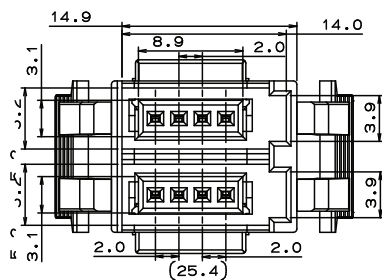
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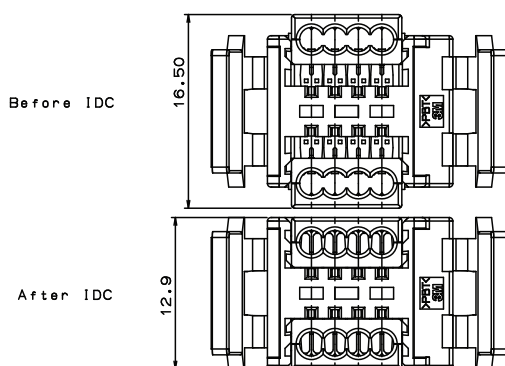
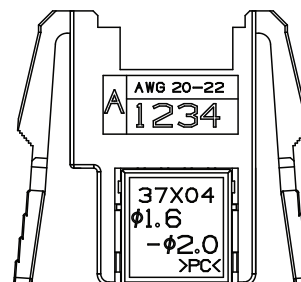
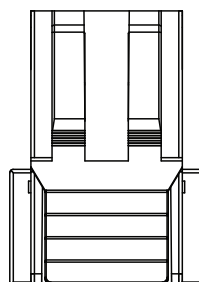
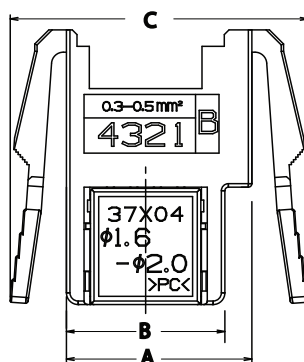
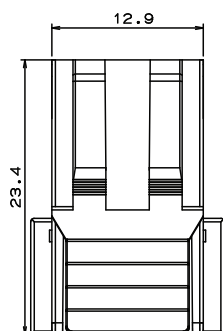
373 Series

6 or 8 Position with Latch for Panel Mount



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

[] Dimensions for Reference only



| # Postions | 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 [.063 ~ .079] | 1.2 ~ 1.6 [.047 ~ .063] | 1.0 ~ 1.62 [.039 ~ .064] | 0.8 ~ 1.0 [.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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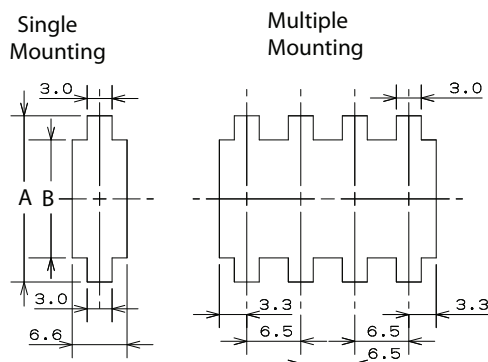
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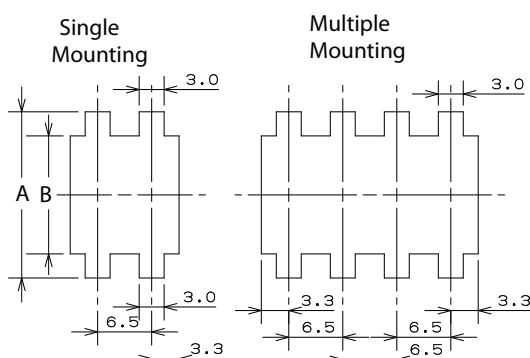
Panel Cutouts



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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