

3M™ Mini-Clamp Plug

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

371 Series



- Designed to accommodate typical wiring specifications per Japanese and Asian suppliers
- 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
- Mating latches provide a reliable interconnection in demanding applications
- High number of mating cycles
- Compact design saves board space
- Helps reduce maintenance work by providing higher connection reliability
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: May 11, 2020

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Physical

Insulation:

Material: Glass reinforced thermoplastic body & lower cover, transparent thermoplastic cover
Flammability: UL 94V-0
Color: Black body, cover-white & 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

3M

Electronics Materials Solutions Division
Interconnect Solutions
<http://www.3M.com/interconnect>

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3 and 4 Position

| # Positions | Dim A |
|-------------|-------------|
| 3 | 10.4 [0.41] |
| 4 | 12.4 [0.49] |



| Wire OD | 1.6 ~ 2.0 [.063 ~ .079] | 1.2 ~ 1.6 [.047 ~ .063] | 1.0 ~ 1.2 [.039 ~ .047] | 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 |
| Color | | Orange | Yellow | Red |



| | mm [Inch] | |
|------------------------|--------------|------|
| Tolerance Unless Noted | | |
| | 0.0 | 0.00 |
| mm | ±.1 | ±.01 |

[] Dimensions for Reference only

Ordering Information

371XX - XXXX - 000 FL (RIA E1 & C1 apply)

Positions
03 or 04

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

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

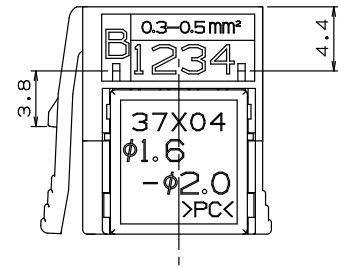
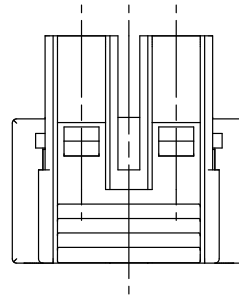
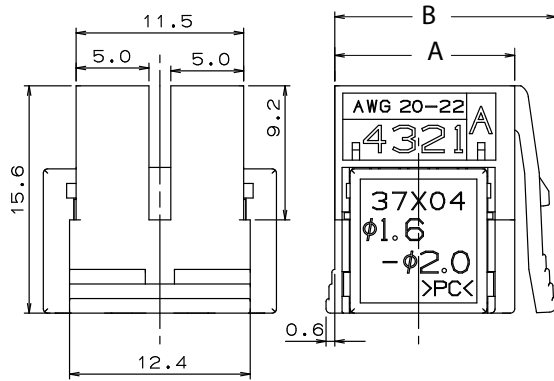
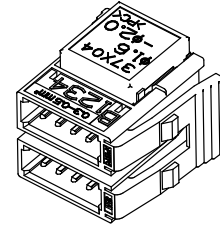
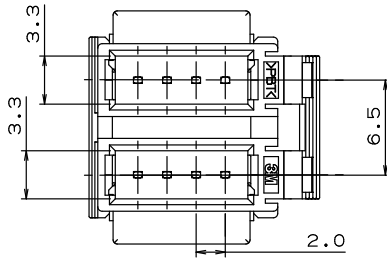
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3M™ Mini-Clamp Plug

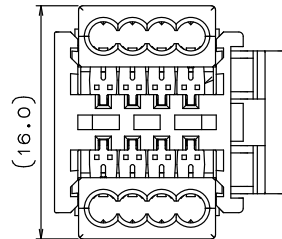
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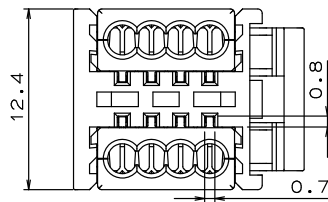
6 and 8 Position



Before IDC



After IDC



mm
[Inch]

| Tolerance Unless Noted | | |
|------------------------|-----|------|
| | .0 | .00 |
| mm | ±.1 | ±.10 |

[] Dimensions for Reference only

| # Positions | A | B (Ref.) |
|-------------|-------------|-------------|
| 6 (3x2) | 10.4 [0.41] | 13.2 [0.52] |
| 8 (4x2) | 12.4 [0.49] | 15.2 [0.60] |

Ordering Information

371XX - XXXX - 0W0 FL

Positions
06 or 08

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

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

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