

# 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: Decemb47, 2017

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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  $\mu\text{m}$  [100  $\mu\text{''}$ ] minimum Nickel  
Wiping Area:: 0.2  $\mu\text{m}$  [8  $\mu\text{''}$ ] 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.3Mconnectors.com>

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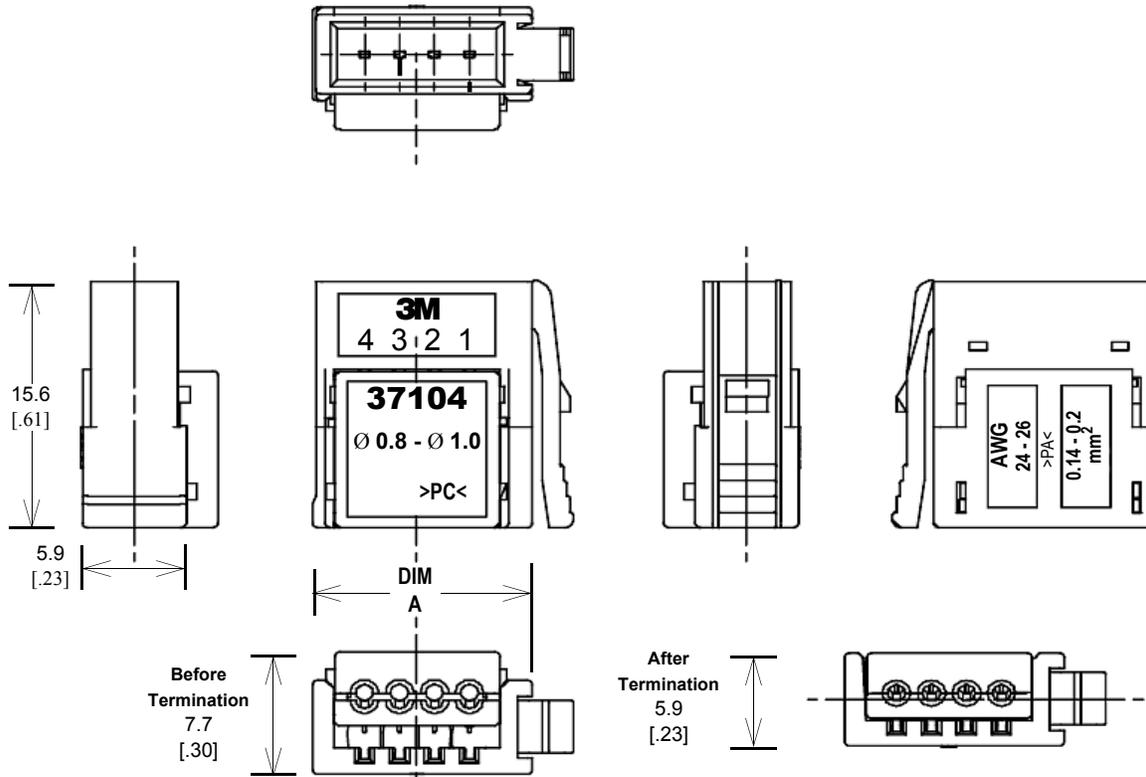
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## 3 and 4 Position

# Positions	Dim A
3	10.4 [.41]
4	14.9 [.59]



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

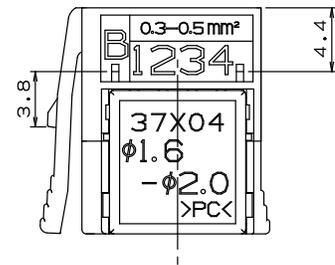
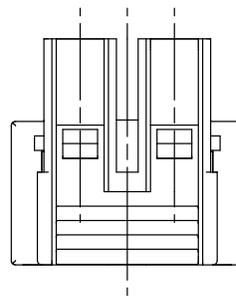
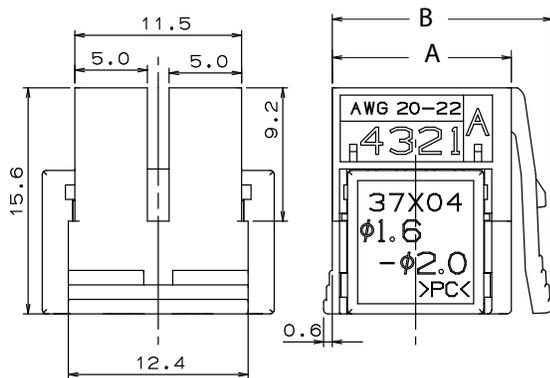
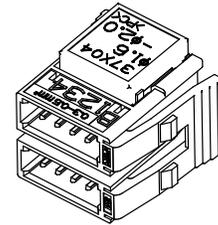
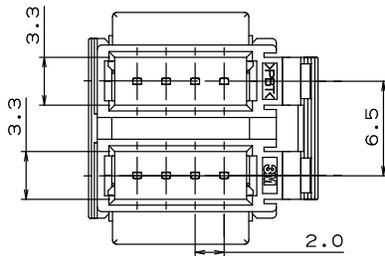
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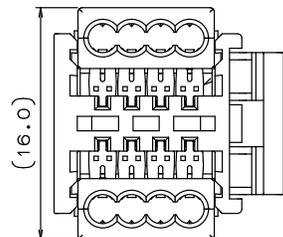
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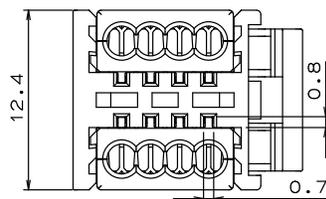
## 6 and 8 Position



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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3M Electronics Materials Solutions Division  
6801 River Place Blvd.  
Austin, TX 78726-9000  
1-800-225-5373  
[www.3M.com/interconnect](http://www.3M.com/interconnect)



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