

# 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

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## 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  $\mu\text{”}$ ] 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<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

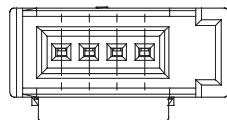
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373 Series

## 3 or 4 Position

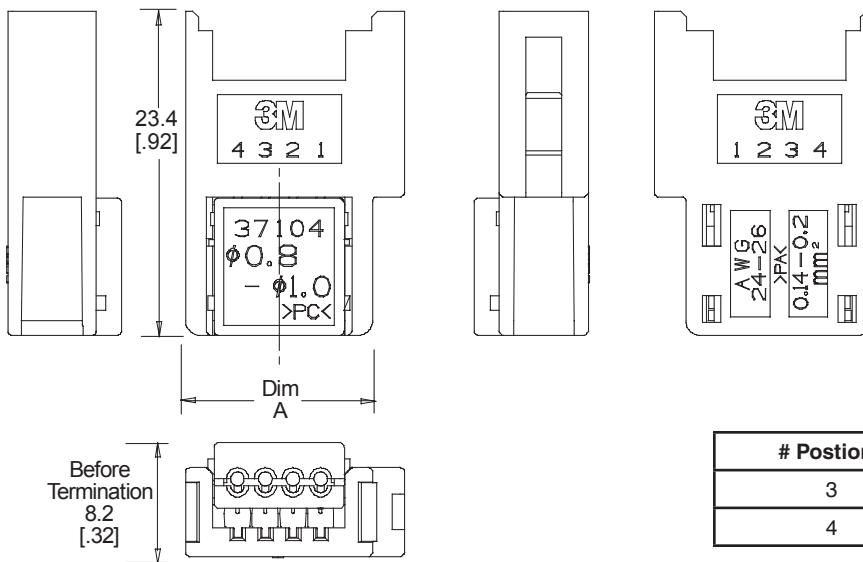
### No Latch



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 ]

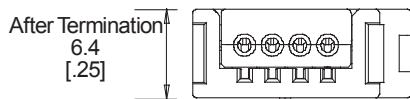


Table 1				
Wire Insulation OD	1.6 ~ 2.0 [.063 ~ .079]	1.2 ~ 1.6 [.047 ~ .063]	1.0 ~ 1.62 [.039 ~ .064]	0.8 ~ 1.0 [.031 ~ .039]
Part # 20-22 AWG	2206	2165	2124	
Cover Color	Gray	Blue	Green	
Part # 24-26 AWG		3163	3122	3101
Cover Color		Orange	Yellow	Red



## 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

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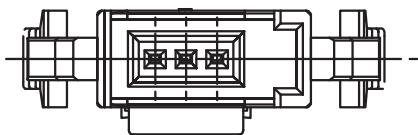
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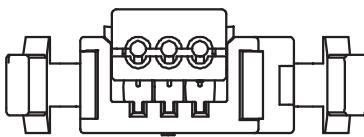
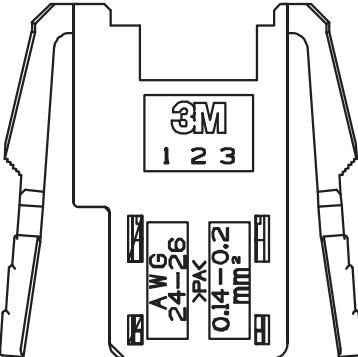
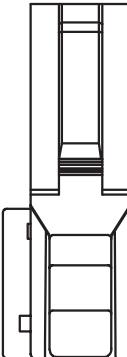
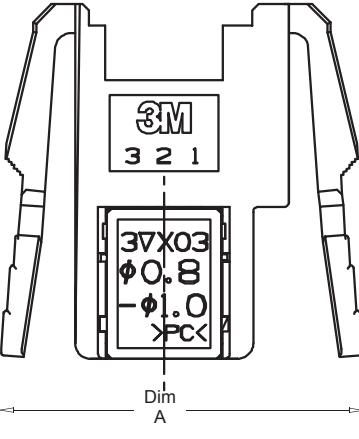
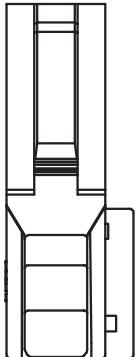
373 Series

## 3 or 4 Position with Latch for Panel Mount

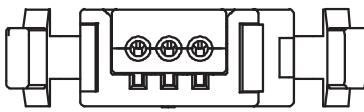


mm [Inch]		
Tolerance Unless Noted	0.0	0.00
mm	±.1	±.10

[ ] Dimensions for Reference only



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



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 - 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

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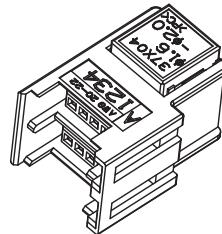
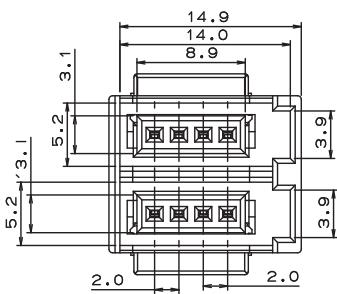
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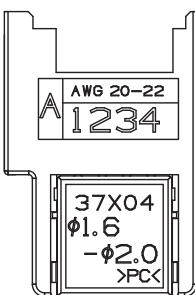
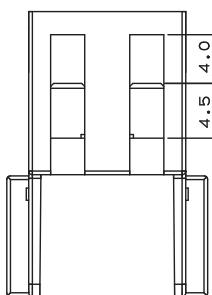
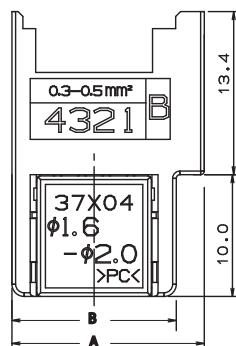
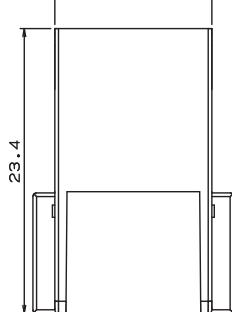
## 6 or 8 Position

### No Latch

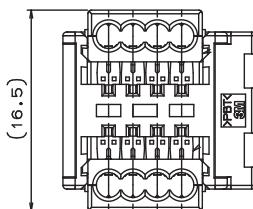


Tolerance Unless Noted	
mm	[Inch]
0.0	0.00
mm	±.1
0.0	±.10

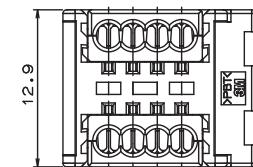
[ ] Dimensions for Reference only



Before IDC



After IDC



# Positions	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]
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## Ordering Information

373XX - XXXX - 0W0 FL

(RIA E1 & C1 apply)

Positions  
06 or 08

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

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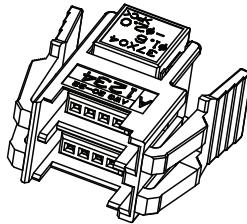
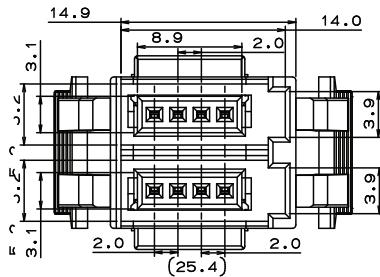
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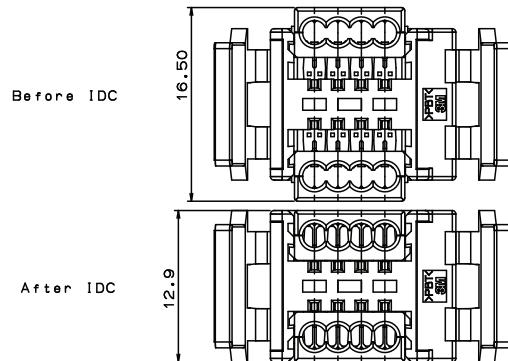
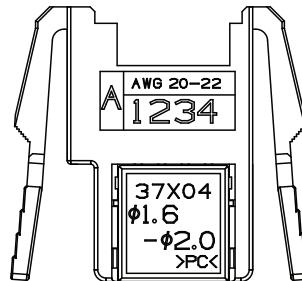
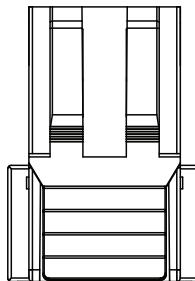
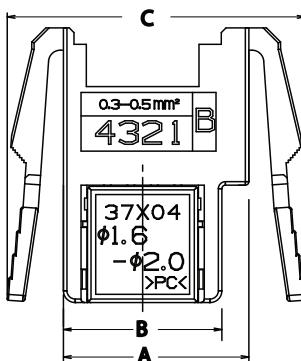
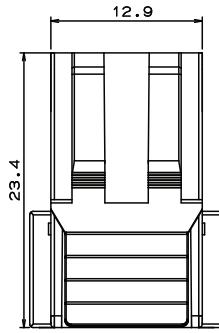
373 Series

## 6 or 8 Position with Latch for Panel Mount



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

[ ] Dimensions for Reference only



Note: See page 4 for panel cutout.



# 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.

Table 1				
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Positions  
06 or 08

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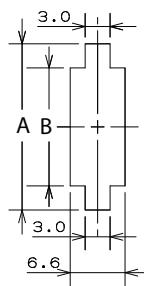
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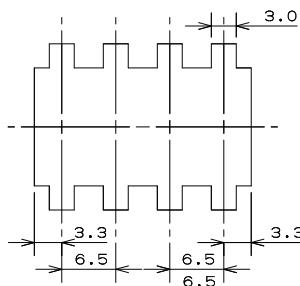
373 Series

## Panel Cutouts

Single  
Mounting

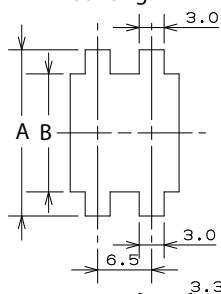


Multiple  
Mounting

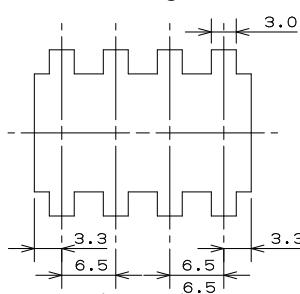


3 and 4 Pin  
37303-XXXX-0P0 FL  
37304-XXXX-0P0 FL

Single  
Mounting



Multiple  
Mounting



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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