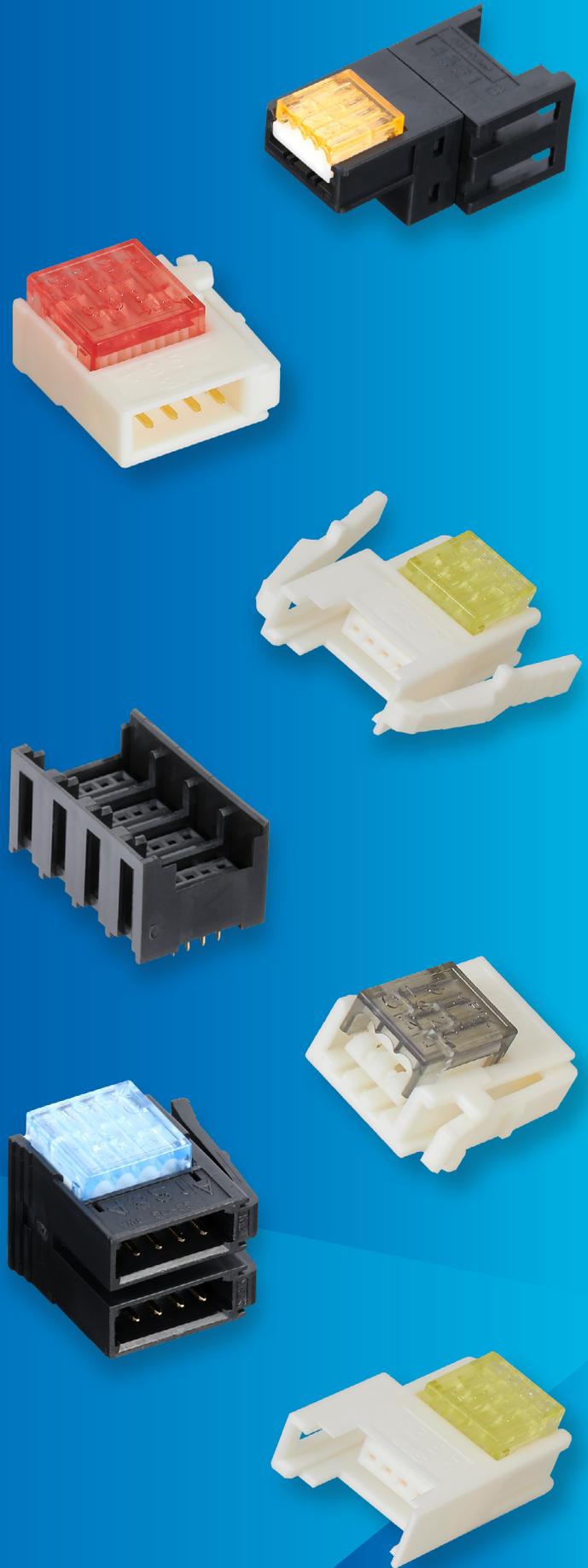


**3M** Science.  
Applied to Life.™

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# 3M™ Mini-Clamp Connector Series

Miniature IDC connectors for  
sensors and other signal devices



# Save space. Save waste. Save time.

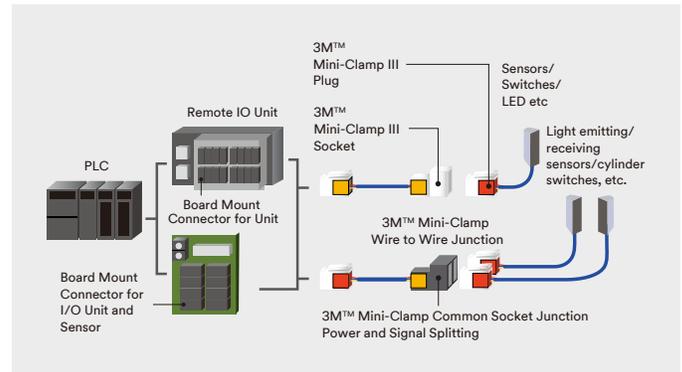
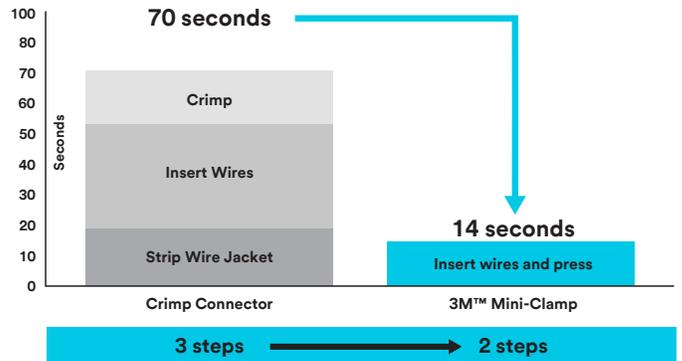
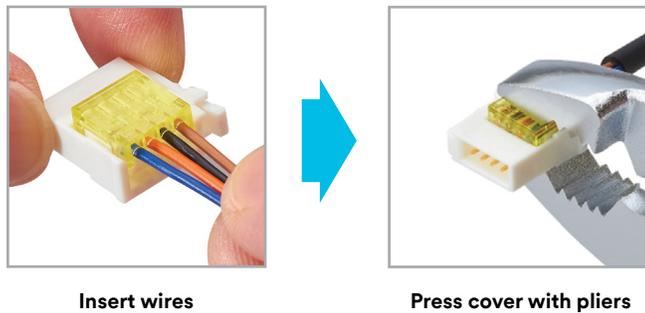
3M™ Mini-Clamp Connectors are a family of wiremount plugs and sockets, common sockets, and boardmount sockets for a wide variety of industrial applications.

All 3M Mini-Clamp connectors for power, signal and network connectivity feature Insulation Displacement Contact (IDC) termination. Invented by 3M in 1961, IDC technology allows technicians to terminate multiple wires simultaneously without wire stripping for fast, reliable installation and maintenance in the field.

## Easy, quick, reliable IDC termination.

### Time and labor saving:

- No need to strip wires, no crimping required
- Terminate multiple wires simultaneously
- Reduces wiring time by approx. 80% compared to crimping connectors



## 3M™ Mini-Clamp Connector Series plug and socket product line-up

Contact your 3M representative for additional details on other connector configurations or visit [3M.com/factoryautomation](http://3M.com/factoryautomation)

Positions	3M™ Mini-Clamp III Plug 37A Series		3M™ Mini-Clamp III Socket 37B Series		3M™ Mini-Clamp Common Socket 37C Series	3M™ Mini-Clamp 371 Series	
			Free Hanging	Panel Mount	Free Hanging and Panel Mount	Free Hanging	Panel Mount
	3	4					
3	✓		✓	✓		✓	✓
4	✓		✓	✓	✓	✓	✓
6						✓	✓
8						✓	✓

For specific boardmount header information see pages 8-11

Note: The technician installation time savings is based on 3M lab evaluations and a limited sample size compared to standard hand crimping methods. Your results may vary.

# 3M™ Mini-Clamp III Plug 37A Series

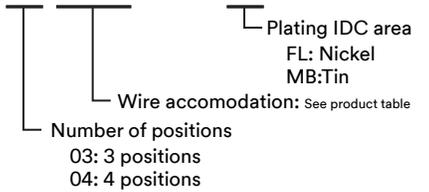
## 37A0x-xxxx-W00 xx



- Quick and reliable Insulation Displacement Contact (IDC) termination without special tools
- No wire stripping – saves time, helps reduce risk of conductor damage and reduces waste
- Supports wire sizes 30-20 AWG
- Terminates 3 or 4 wires simultaneously in a single action
- Improved wire-holding mechanics provide stability during termination
- Easily connect to pig-tailed sensors and other devices
- Compact design with 2 mm pitch helps save space
- Transparent cover allows visual confirmation that wires are properly inserted
- UL and cUL recognized components, UL File No. E68080

### Ordering Information

**37Axx-xxxx-W00xx**



### Product specifications

Material & Plating	Item	Material	Remarks
	Body	PBT resin	UL94V-0 (White)
	Bottom Cover	Nylon	UL94V-0 (White)
	Top Cover	PC	UL94V-2 (Red/Yellow/Gray)
	Contact	Copper Alloy	Under plating: Nickel overall Wiping area: Gold IDC area: Nickel (Red cover product), Tin (Yellow and Gray cover products)

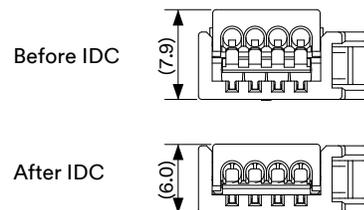
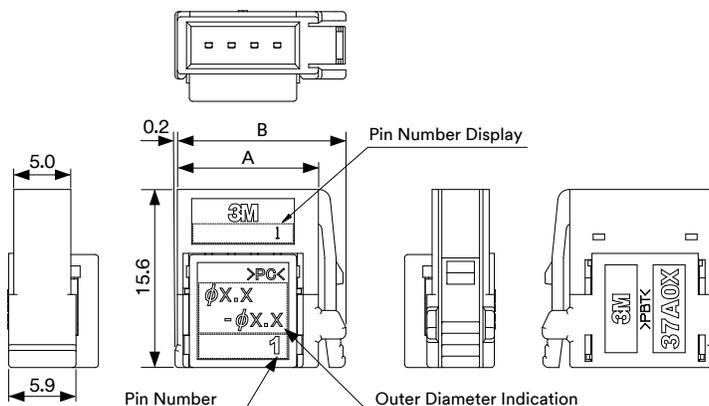
  

Ratings	Item	Rating
	Voltage	AC/DC 32V Max.
	Current	2.0A MAX.
	Temperature	-20 to 85 degree C

### Product table

Cover Color	Product Number		Wire Accommodation		
	3 Positions	4 Positions	AWG No.	Nominal Conductor Cross-Sectional Area (mm <sup>2</sup> )	Wire Outer Diameter (mm)
Red	37A03-E121-W00 FL	37A04-E121-W00 FL	30 - 27 26 - 24	0.05 - 0.11 0.12 - 0.20	0.6 - 1.2 0.6 - 0.8
Yellow	37A03-D162-W00 MB	37A04-D162-W00 MB	26 - 20	0.12 - 0.50	0.8 - 1.6
Gray	37A03-C206-W00 MB	37A04-C206-W00 MB	24 - 20	0.20 - 0.50	1.6 - 2.0

### Dimensions (mm)



Positions	Product Number	A	B
3	37A03-xxxx-W00 xx	10.4	12.8
4	37A04-xxxx-W00 xx	12.4	14.8

### Tolerances except as noted

Dimension	.0	.00
Tolerance	.00	±.13

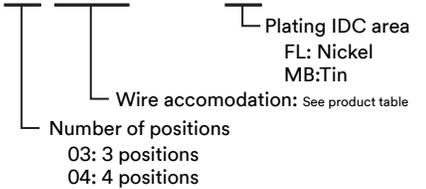
# 3M™ Mini-Clamp III Socket 37B Series free hanging and panel mount 37B0x-xxxx-W00 MB

- Quick and reliable Insulation Displacement Contact (IDC) termination without special tools
- No wire stripping – saves time, helps reduce risk of conductor damage and reduces waste
- Supports wire sizes 26-20 AWG
- Terminates 3 or 4 wires simultaneously in a single action
- For wire-to-wire or panel mount in a wide range of applications
- Optional latches for panel mount applications
- Improved wire-holding mechanics provide stability during termination
- Transparent cover allows visual confirmation that wires are properly inserted
- UL and cUL recognized components, UL File No. E68080



## Ordering Information

**37Bxx-xxxx-W00xx**



## Product specifications: 3M™ Mini-Clamp III Socket 37B Series free hanging and panel mount

Material & Plating	Item	Material	Remarks
	Body	PBT resin	UL94V-0 (White)
	Bottom Cover	Nylon	UL94V-0 (White)
	Top Cover	PC	UL94V-2 (Yellow/Gray)
	Contact	Copper Alloy	Under plating: Nickel overall Wiping area: Gold IDC area: Tin

Ratings	Item	Rating
	Voltage	AC/DC 32V Max.
	Current	3.0A Max.
	Temperature	Current 1A: -20 to 85 degree C / Current 2A: -20 to 75 degree C / Current 3A: -20 to 60 degree C

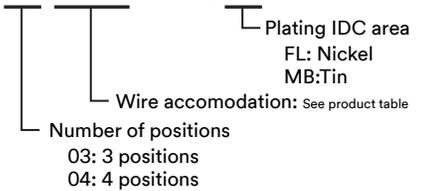
# 3M™ Mini-Clamp III Socket 37B Series free hanging 37B0x-xxxx-W00 MB

- Quick and reliable Insulation Displacement Contact (IDC) termination without special tools
- No wire stripping – saves time, helps reduce risk of conductor damage and reduces waste
- Supports wire sizes 26-20 AWG
- Terminates 3 or 4 wires simultaneously in a single action
- Improved wire-holding mechanics provide stability during termination
- Easily connect to pig-tail wired sensors and other devices
- Compact design with 2 mm pitch helps save space
- Semi-transparent cover allows visual confirmation that wires are properly inserted
- UL and cUL recognized components, UL File No. E68080



## Ordering Information

**37Bxx-xxxx-W00xx**



## Product specifications

Material & Plating	Item	Material	Remarks
	Body	PBT resin	UL94V-0 (White)
	Bottom Cover	Nylon	UL94V-0 (White)
	Top Cover	PC	UL94V-2 (Yellow/Gray)
	Contact	Copper Alloy	Under plating: Nickel overall Wiping area: Gold IDC area: Tin

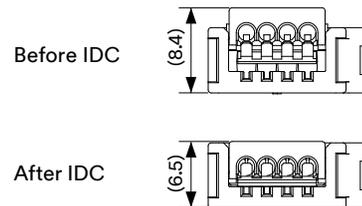
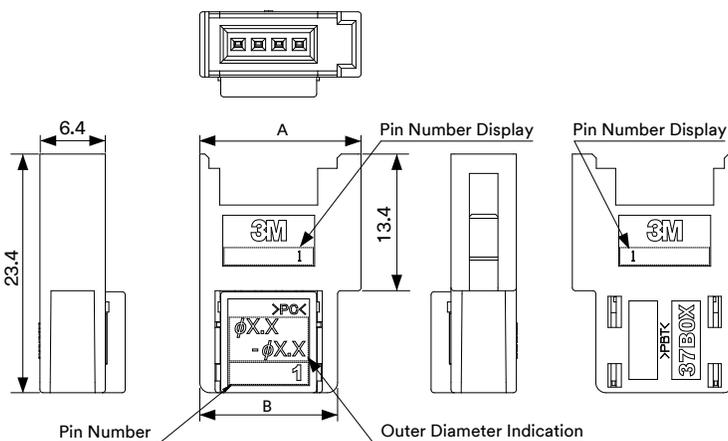
  

Ratings	Item	Rating
	Voltage	AC/DC 32V Max.
	Current	3.0A Max.
	Temperature	Current 1A: -20 to 85 degree C / Current 2A: -20 to 75 degree C / Current 3A: -20 to 60 degree C

## Product table

Cover Color	Product Number		Wire Accommodation		
	3 Positions	4 Positions	AWG No.	Nominal Conductor Cross-Sectional Area (mm <sup>2</sup> )	Wire Outer Diameter (mm)
<b>Yellow</b>	37B03-D162-W00 MB	37B04-D162-W00 MB	26 - 20	0.12 - 0.50	0.8 - 1.6
<b>Gray</b>	37B03-C206-W00 MB	37B04-C206-W00 MB	24 - 20	0.20 - 0.50	1.4 - 2.0

## Dimensions (mm)



Positions	Product Number	A	B
3	37AB3-xxxx-W00 xx MB	13.8	11.5
4	37AB4-xxxx-W00 xx MB	15.8	13.5

Tolerances except as noted

Dimension	.0	.00
Tolerance	±0.3	±.13

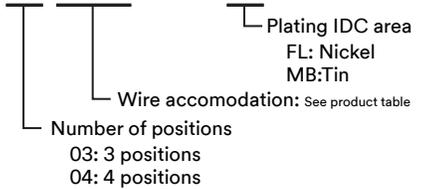
# 3M™ Mini-Clamp III Socket 37B Series panel mount 37B0x-xxxx-WP0 MB

- Quick and reliable Insulation Displacement Contact (IDC) termination without special tools
- No wire stripping – saves time, helps reduce risk of conductor damage and reduces waste
- Supports wire sizes 26-20 AWG
- Terminates 3 or 4 wires simultaneously in a single action
- Improved wire-holding mechanics provide stability during termination
- Easily connect to pig-tail wired sensors and other devices
- Compact design with 2 mm pitch helps save space
- Semi-transparent cover allows visual confirmation that wires are properly inserted
- Latches are available for reliable and verifiable panel mounting
- UL and cUL recognized components, UL File No. E68080



## Ordering Information

37Bxx-xxxx-W00xx



## Product table

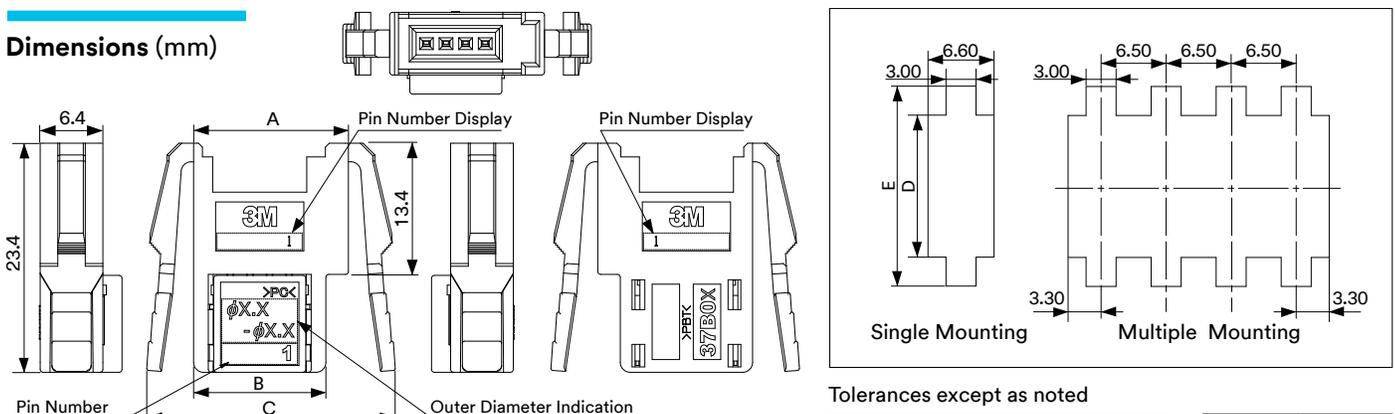
Cover Color	Product Number		Wire Accommodation		
	3 Positions	4 Positions	AWG No.	Nominal Conductor Cross-Sectional Area (mm <sup>2</sup> )	Wire Outer Diameter (mm)
Yellow	37B03-D162-W00 MB	37B04-D162-W00 MB	26 - 20	0.12 - 0.50	0.8 - 1.6
Gray	37B03-C206-W00 MB	37B04-C206-W00 MB	24 - 20	0.20 - 0.50	1.4 - 2.0

## Product specifications

Material & Plating	Item	Material	Remarks
	Body	PBT resin	UL94V-0 (White)
	Bottom Cover	Nylon	UL94V-0 (White)
	Top Cover	PC	UL94V-2 (Yellow/Gray)
	Contact	Copper Alloy	Under plating: Nickel overall Wiping area: Gold IDC area: Tin

Ratings	Item	Rating
	Voltage	AC/DC 32V Max.
	Current	3.0A Max.
	Temperature	Current 1A: -20 to 85 degree C / Current 2A: -20 to 75 degree C / Current 3A: -20 to 60 degree C

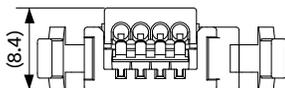
## Dimensions (mm)



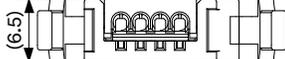
Tolerances except as noted

Dimension	.0	.00	Panel Thickness (mm)				
Tolerance	±0.3	±0.13	1.0/1.2	1.4/1.6	E	E	
Positions	Product Number	A	B	C	D	E	E
3	37B03-xxxx-WP0 MB	13.8	11.5	(23.4)	14.20	20.00	20.40
4	37B04-xxxx-WP0 MB	15.8	13.5	(25.4)	16.20	22.00	22.40

Before IDC



After IDC



# 3M™ Mini-Clamp Common Socket 37C Series

## 37C04-xxxx-0x0 FL

- Quick and reliable Insulation Displacement Contact (IDC) termination without special tools
- Accepts up to two 3M Mini-Clamp Plugs for efficient space and wire savings
- Supports power and signal branching on sensor wiring, helping simplify network design
- Four position connector provides splitting for up to 8 positions
- Supports wire sizes 26-20 AWG
- Semi-transparent cover allows visual confirmation that wires are properly inserted
- Mating latches help ensure reliable interconnection even in demanding applications
- Available in a standard version or with side latches for panel mount installations



### Ordering Information

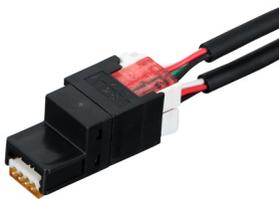
**37C04-xxxx-0x0 FL**

Series No. | Plating IDC Area  
 Connector Type  
 O: Original (no latches)  
 P: Panel mount type (latches)

Compatible Wire  
 2xxx: 20-22 AWG  
 3xxx: 24-26 AWG

### Product specifications

	Item	Material	Remarks
Material & Plating	Body	PBT resin	UL94V-0 (Black)
	Bottom Cover	Nylon	UL94V-0 (Black)
	Top Cover	PC	UL94V-2 (Gray, Blue, Green, Orange, Yellow, Red)
	Contact	Copper Alloy	Under plating: Nickel overall Wiping area: Gold IDC area: Tin
Ratings			<b>Rating</b>
	Voltage		AC/DC 32V Max.
	Current		3.0A Max.
	Temperature		Current 1A: -20 to 85 degree C / Current 2A: -20 to 75 degree C / Current 3A: -20 to 60 degree C



### 3M™ Mini-Clamp Common Sockets

3M Mini-Clamp Common Sockets connected to 3M Mini-Clamp III Plugs

### 3M™ Mini-Clamp Common Sockets

Color coded cover according to wire size  
 Only two colors shown here, review Tech Data Sheet for full range of colors and wire sizes supported

# 3M™ Mini-Clamp Socket Straight 372 Series

## 1 row, 2 rows and 4 rows

### 372xx-62×3-00x PL

- Mates with all 3M™ Mini-Clamp Wiremount Connector Plugs
- Compact design and straight thru-hole solder tails save board space
- Fixture pins help secure socket to the board
- Stacked mounting in the direction of the pitch between rows enables mounting at an equal pitch of 6.5 mm
- UL and cUL recognized components, UL File No. E68080



1 row and 2 rows



4 rows

#### Product specifications: 3M™ Mini-Clamp Socket Straight 372 Series 1 row, 2 rows and 4 rows

Material & Plating	Item	Material	Remarks
	Body	Nylon	UL94V-0 (Black)
Contact	Copper Alloy	Under plating: Nickel overall Wiping area: Gold Soldertails: Gold Flash	
PCB Accommodation	Thickness: 1.0 to 1.6mm, see recommend hole pattern		
Ratings	Item	Rating	
	Voltage	AC/DC 32V Max.	
	Current	3.0A Max.	
Temperature	Current 1A: -20 to 85 degree C / Current 2A: -20 to 75 degree C / Current 3A: -20 to 60 degree C		

# 3M™ Mini-Clamp Socket Straight 372 Series

## 1 row, 2 rows

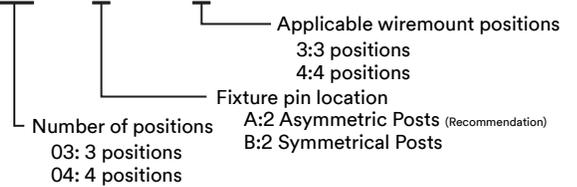
### 372xx-62×3-00x PL



- Enables high-density mounting to the board
- Stacked mounting in the direction of the pitch between rows enables mounting at an equal pitch of 6.5 mm
- Fixture pins help secure socket to the board
- Contacts are located inside the body to prevent electric shock and short circuits
- UL and cUL recognized components, UL File No. E68080

#### Ordering Information

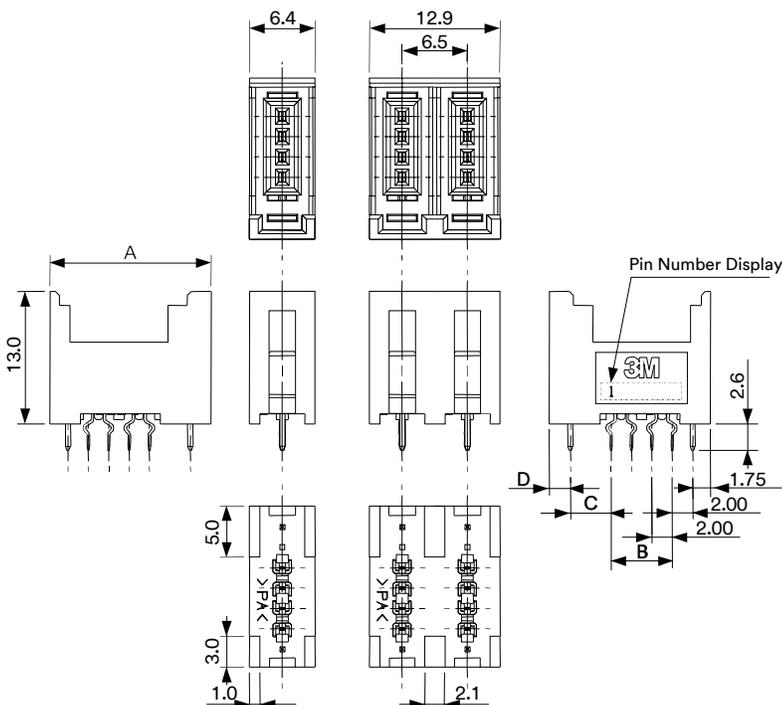
372xx-62×3-00x PL



#### Product table

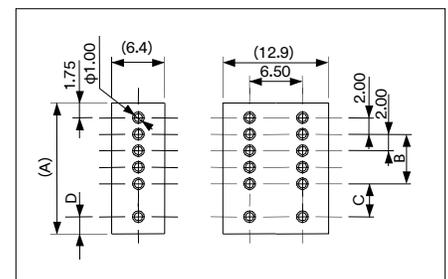
Number of poles	Product Number	A	B	C	D
3	37203-62A3-003 PL	13.8	4.00=2.00 × (3-1)	4.00	2.05
3	37203-62B3-003 PL	13.8	4.00=2.00 × (3-1)	2.00	4.05
4	37204-62A3-004 PL	15.8	6.00=2.00 × (4-1)	4.00	2.05
4	37204-62B3-004 PL	15.8	6.00=2.00 × (4-1)	2.00	4.05
6 (3 poles × 2 rows)	37206-62A3-003 PL	13.8	4.00=2.00 × (3-1)	4.00	2.05
8 (4 poles × 2 rows)	37208-62A3-004 PL	15.8	6.00=2.00 × (4-1)	4.00	2.05

#### Dimensions (mm)



#### Hole Pattern

Dimensions (mm)



Tolerances except as noted: 1 row, 2 rows

Dimension	.0	.00
Tolerance	±0.3	±0.13

# 3M™ Mini-Clamp Socket Straight 372 Series

## 4 rows

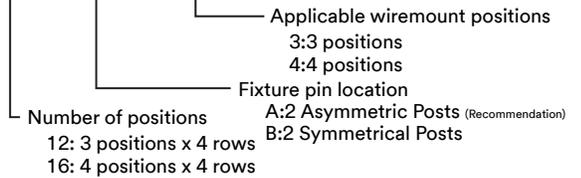
### 372xx-62×3-00x PL



- Connect with up to 4 wiremount plugs in a single connector
- Stacked mounting in the direction of the pitch between rows enables mounting at an equal pitch of 6.5 mm
- Fixture pins help secure socket to the board
- Enables high-density plug to board connections in a small space
- Contacts are located inside the body to help avoid electric shock and short circuits
- UL and cUL recognized components, UL File No. E68080

### Ordering Information

#### 372xx-62×3-00x PL

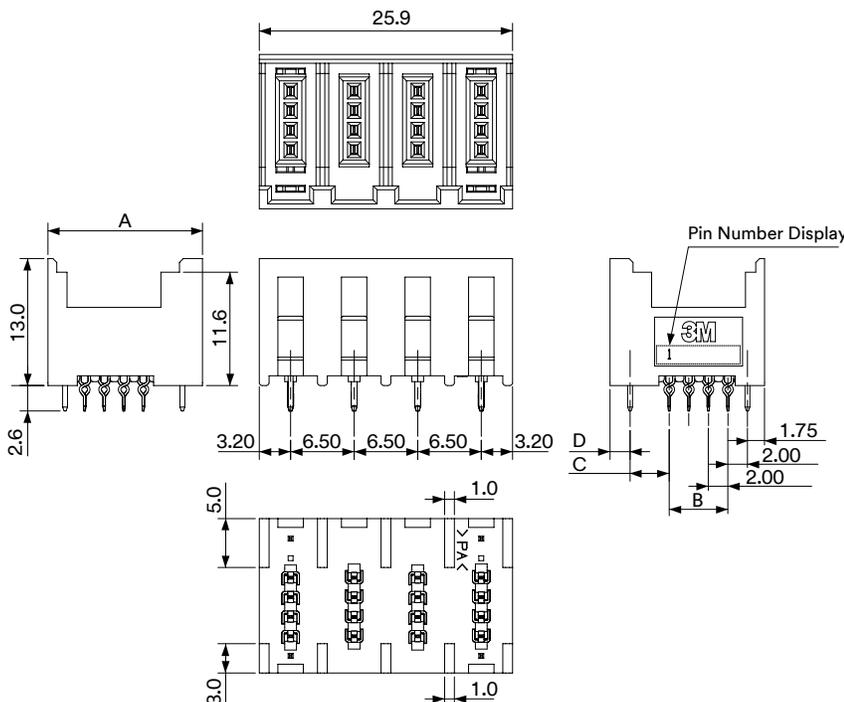


### Product table

Number of poles	Product Number	A	B	C	D
12	37212-62A3-003 PL	13.8	4.00=2.00 × (3-1)	4.00	2.05
12	37212-62B3-003 PL	13.8	4.00=2.00 × (3-1)	2.00	4.05
16	37216-62A3-004 PL	15.8	6.00=2.00 × (4-1)	4.00	2.05
16	37216-62B3-004 PL	15.8	6.00=2.00 × (4-1)	2.00	4.05

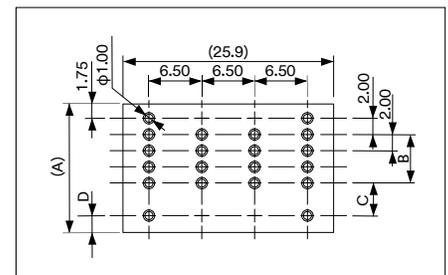
\*For fixed pin types, please check the latest drawings issued by our company.

### Dimensions (mm)



### Hole Pattern

Dimensions (mm)



Tolerances except as noted: 4 rows

Dimension	.0	.00
Tolerance	±0.3	±0.13



# 3M™ Mini-Clamp IDC Assembly Hand Tool 37900-10

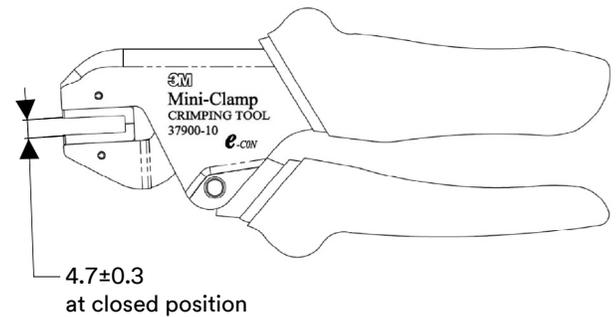
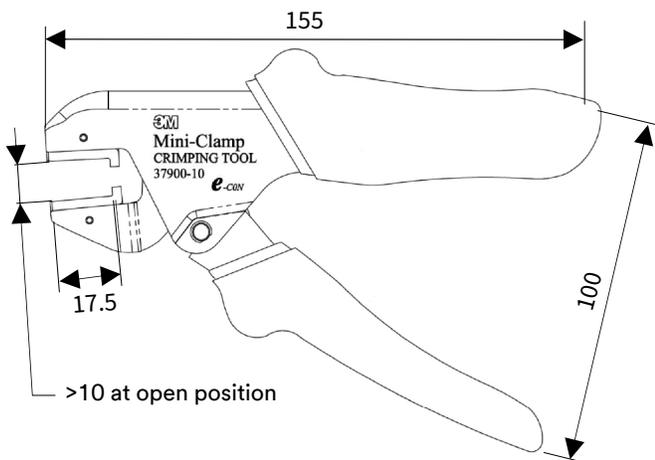


- Specially designed for 3M Mini-Clamp Wiremount Connectors
- Delivers ideal clamp force for 3M IDC connector assembly
- Ergonomical handles

## Product table

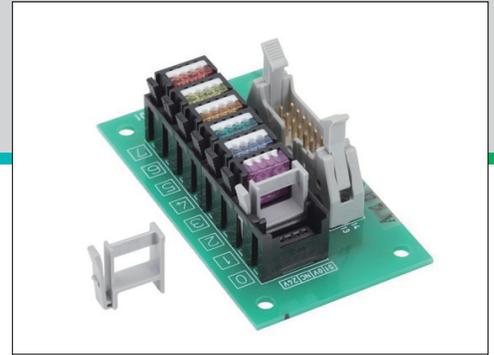
Applicable Connectors	3M™ Mini-Clamp Wiremount Plug	37103-xxxx-x00 FL, 37104-xxxx-x00 FL
	3M™ Mini-Clamp Wiremount Socket	37303-xxxx-0x0 FL, 37304-xxxx-0x0 FL
	3M™ Mini-Clamp III Wiremount Plug	37A03-xxxx-W00 xx, 37A04-xxxx-W00 xx
	3M™ Mini-Clamp III Wiremount Socket	37B03-xxxx-Wx0 MB, 37B04-xxxx-Wx0 MB

## Dimensions (mm)



# 3M™ Mini-Clamp Connector Dust Cover 378xx-1000-00

- Helps prevent debris from getting inside boardmount socket
- Ideal socket protection for different environments
- Compatible with 3M Mini-Clamp and 3M Mini-Clamp III Sockets



## Ordering Information

**378xx-1000-00**

└─ Number of positions  
03: 3 positions  
04: 4 positions

## Product specifications

Material & Plating	Item	Material	Remarks
		Body	PBT

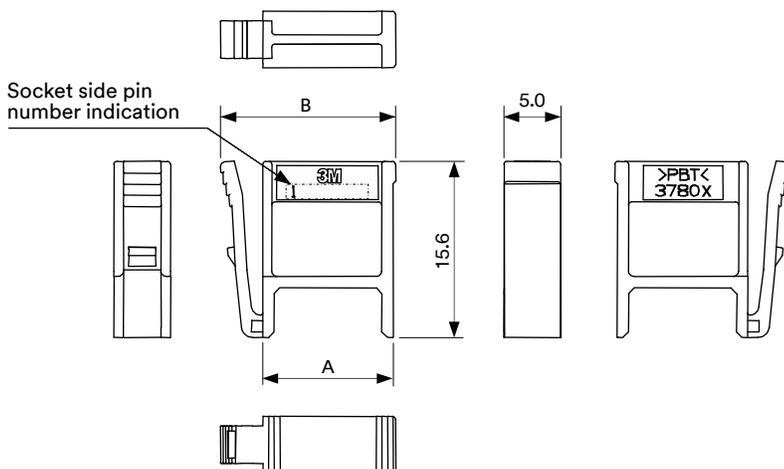
  

Ratings	Item	Rating
		Temperature Range

## Product table

	Product Number	A	B
3 Poles	37803-1000-00	9.5	13.5
4 Poles	37804-1000-00	11.5	15.5

## Dimensions (mm)



Tolerances except as noted

Dimension	.0	.00
Tolerance	±0.3	±0.13



**Safety Data Sheet:** Consult Safety Data Sheet before use.

**Regulatory:** For regulatory information about this product, contact your 3M representative.

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