

# 3M™ Power Clamp Header

3 mm, Straight, 1 and 2 Row, 5 and 10 Contacts

356 Series



- Accepts one or two Power Clamp Wiremount Sockets
- Accepts branch and terminator connectors
- Side to side stackable at 9 mm pitch on PCB
- Integrated press-fit board retention pins retain the connector to the board during wave soldering
- Polarization of retention pins on two-row header and polarization pin on one-row header prevent incorrect mounting.
- CC-Link Communication Interconnect Standard
- One touch latching mechanism maintains a reliable interconnection in demanding field applications
- Keyed to prevent reverse insertion of sockets
- Polarization options ensures proper interconnection of mated connectors
- RoHS Compliant. See paragraphs E1 and C1 of RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of [www.3M.com/Interconnects](http://www.3M.com/Interconnects) for compliance information (RIA E1 & C1 apply).

Date Modified: December 20, 2009

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## Physical

### Insulation:

Body Material: 1 Row - PBT, 2 Row - Nylon

Flammability: UL 94V-0

Body Color: Black

### Contact:

Material: Copper Alloy

### Plating:

Underplating: 2.5  $\mu\text{m}$  Ni minimum

Wiping Area: 0.5  $\mu\text{m}$  Au minimum

Solder Tails Au Flash

**Mating Compatibility:** 355, 357, 35T series products (with same polarization)

## Electrical

**Current Rating:** 18 AWG: 10A (1 contact/socket); 7A (2 - 5 contacts/socket)

20 AWG: 9A (1 contact/socket); 6A (2 - 5 contacts/socket)

Rating Conditions: 30° C maximum temperature rise

**Voltage Rating:** 250 V

**Insulation Resistance:** 10<sup>3</sup> M $\Omega$  min. at 600 V<sub>DC</sub>

**Withstanding Voltage:** 1,000 V<sub>RMS</sub> for 1 minute

## Environmental

**Process Rating:** 260°C maximum for wave solder process

390°C for 3 seconds maximum for soldering iron

**Temperature Rating:** -20°C to +75°C ambient

UL Rating: 65° C

UL File No: E68080

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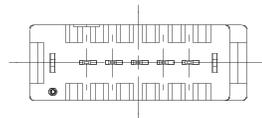
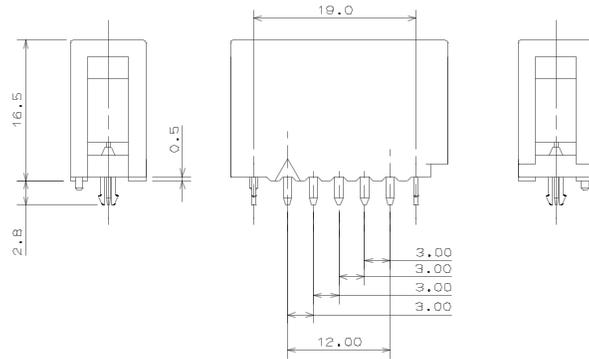
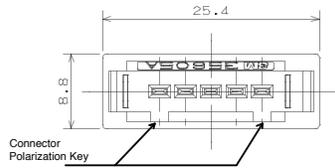
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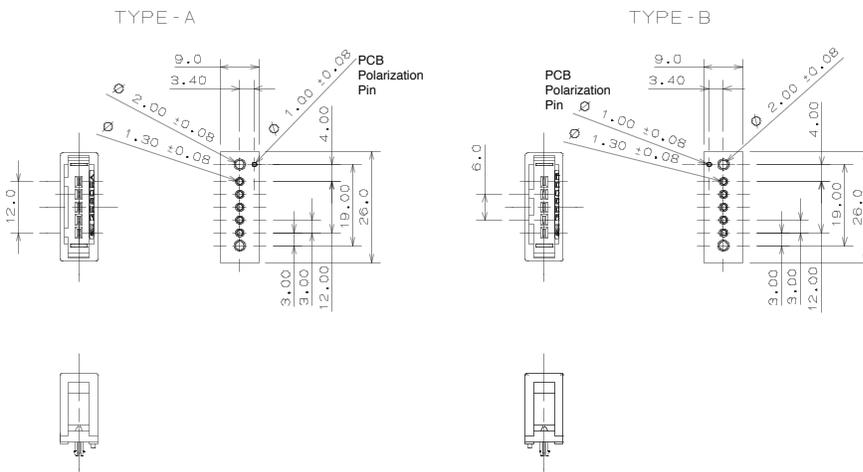
356 Series

## 1-Row Header



Available Part Numbers	
3M Part Number	Polarization
35605-6114-A00 PE	A
35605-6114-B00 PE	B

### RECOMMENDED HOLE PATTERN



mm  
[Inch]

Tolerance Unless Noted			
	.0	.00	.000
mm	±3	±.13	±.008

[ ] Dimensions for Reference Only

## Ordering Information

**35605 - 6114 - X00 PE** (RIA E1 and C1 Apply)

Polarization:

A: Type A (wide)

B: Type B (narrow)

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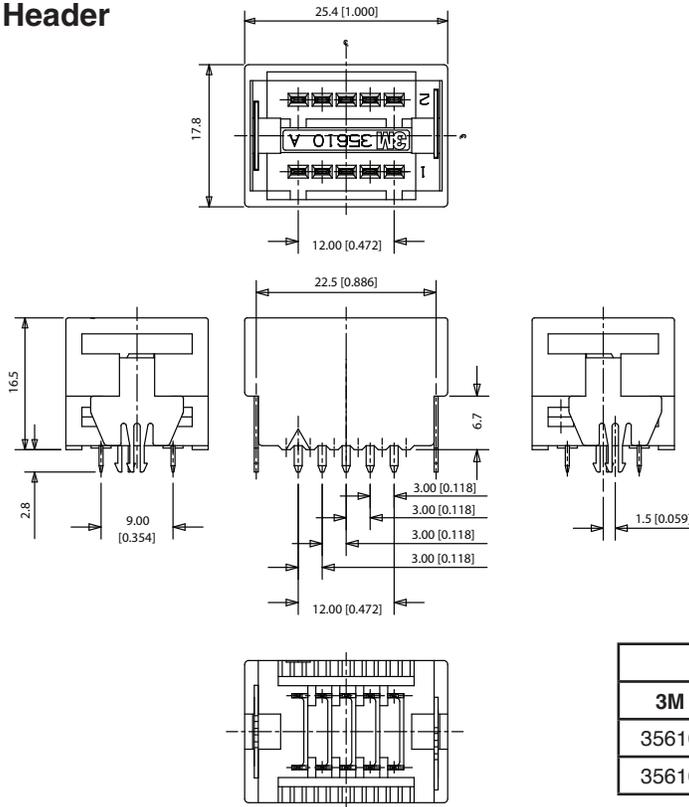
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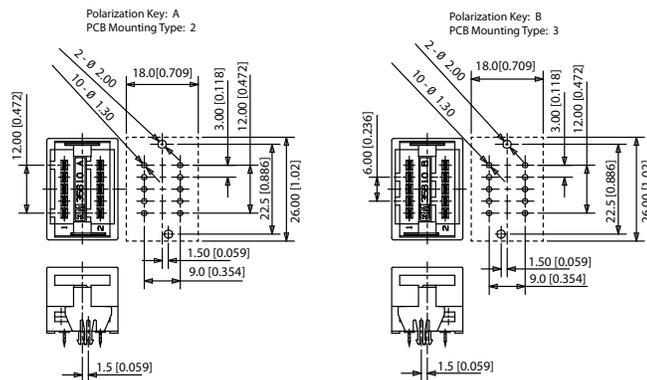
356 Series

## 2-Row Header



Available Part Numbers		
3M Part Number	Polarization	PCB Mounting
35610-6224-A00 PE	A	2
35610-6234-B00 PE	B	3

### RECOMMENDED HOLE PATTERN



mm  
[Inch]

Tolerance Unless Noted			
	.0	.00	.000
mm	±3	±.13	±.008

[ ] Dimensions for Reference Only

## Ordering Information

**35610 - 62X4 - X00 PE** (RIA E1 and C1 Apply)

PCB Mounting Type:  
2: Ø2.0 mm, +1.5 mm offset  
3: Ø2.0 mm, -1.5 mm offset

Polarization:  
A: Type A (wide)  
B: Type B (narrow)

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### **3M Electronics Solutions Division**

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