

**tyco***Electronics***AMP**

## 4.2 mm PE Series Connector System, Wire-to-Wire and Wire-to-Board

### DESCRIPTION

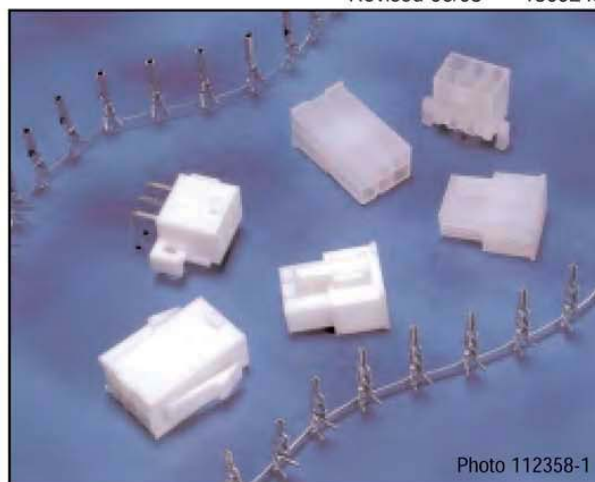
- Low cost, wire-to-wire and wire-to-board connectors with 4.2 mm x 4.2 mm centerline

### APPLICATIONS

- Computer motherboards/power supplies
- Harness assemblies used in the Vending, Gaming and Appliance industries
- Car alarm systems
- Heating systems

### KEY FEATURES

- Easy mate and unmate with positive latch design
- 2-24 positions (even only): receptacles, panel mount or free-hanging plugs, and vertical or right-angle pin headers
- Available in UL 94V-2 or UL 94V-0 flammability rated nylon
- Intermateable and interchangeable with Molex Mini-Fit, Jr. and intermateable AMP-DUAC connectors



Revised 06/03 1309245

### ELECTRICAL

- |                                    |                                        |
|------------------------------------|----------------------------------------|
| • Voltage:                         | 600 VAC                                |
| • Current:                         | 9 amps max. in 2-position applications |
| • Dielectric Withstanding Voltage: | 1500 VAC min.                          |
| • Insulation Resistance:           | 1000 megohms min.                      |

### MECHANICAL

- |                       |                                    |
|-----------------------|------------------------------------|
| • Connector Mating:   | 1.55 lb. [6.90N] max. per circuit  |
| • Connector Unmating: | .11 lb. [.49N] min. per circuit    |
| • Contact Retention:  | 4.88 lb. [21.71N] min. per contact |
| • Durability:         | 50 cycles, mating and unmating     |

### MATERIALS

- |             |                              |             |                                               |
|-------------|------------------------------|-------------|-----------------------------------------------|
| • Housings: | Nylon, UL 94V-2 and UL 94V-0 | • Contacts: | Brass or Phos Bronze with tin or gold plating |
|-------------|------------------------------|-------------|-----------------------------------------------|

### STANDARDS & SPECS

- Component Recognized by UL and Certified by CSA

### FOR MORE INFORMATION

#### Technical Support

Phone: 1-800-522-6752

Internet: [www.tycoelectronics.com](http://www.tycoelectronics.com)

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South America: 55-11-3611-1514

Hong Kong: 852-2735-1628

Japan: 81-44-844-8013

UK: 44-141-810-8967

new product

## 4.2 mm PE Series Connector System, Wire-to-Wire and Wire-to-Board

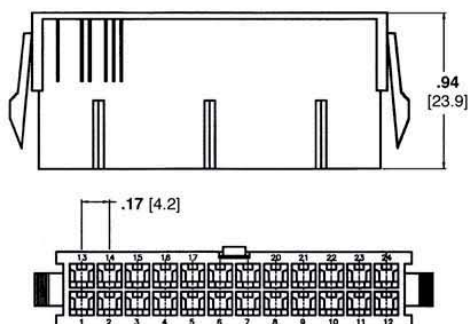
### HOUSINGS — PRODUCT OFFERING

No. of Positions	UL 94V-2 Housings			UL 94V-0 Housings		
	Panel Mount Plug	Free-Hanging Plug	Receptacle Housing	Panel Mount Plug	Free-Hanging Plug	Receptacle Housing
2	794953-2	1586000-2	794954-2	1586018-2	1586017-2	1586019-2
4	794953-4	1586000-4	794954-4	1586018-4	1586017-4	1586019-4
6	794953-6	1586000-6	794954-6	1586018-6	1586017-6	1586019-6
8	794953-8	1586000-8	794954-8	1586018-8	1586017-8	1586019-8
10	1-794953-0	1-1586000-0	1-794954-0	1-1586018-0	1-1586017-0	1-1586019-0
12	1-794953-2	1-1586000-2	1-794954-2	1-1586018-2	1-1586017-2	1-1586019-2
14	1-794953-4	1-1586000-4	1-794954-4	1-1586018-4	1-1586017-4	1-1586019-4
16	1-794953-6	1-1586000-6	1-794954-6	1-1586018-6	1-1586017-6	1-1586019-6
18	1-794953-8	1-1586000-8	1-794954-8	1-1586018-8	1-1586017-8	1-1586019-8
20	2-794953-0	2-1586000-0	2-794954-0	2-1586018-0	2-1586017-0	2-1586019-0
22	2-794953-2	2-1586000-2	2-794954-2	2-1586018-2	2-1586017-2	2-1586019-2
24	2-794953-4	2-1586000-4	2-794954-4	2-1586018-4	2-1586017-4	2-1586019-4

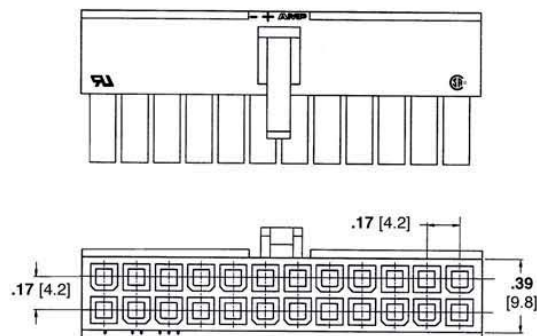
**Note:** Plug housings accept pin contacts and receptacle housings accept socket contacts on page 4.

### PRODUCT DIMENSIONS

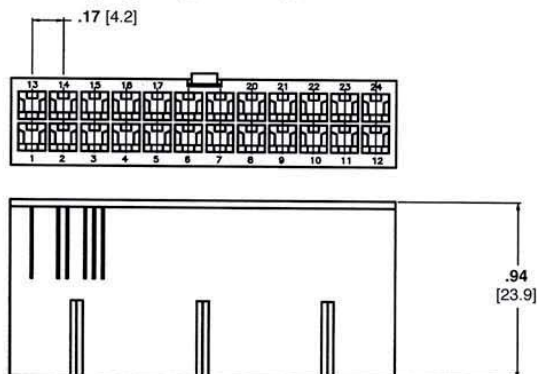
**Panel Mount Plug Housing**



**Receptacle Housing**



**Free-Hanging Plug Housing**





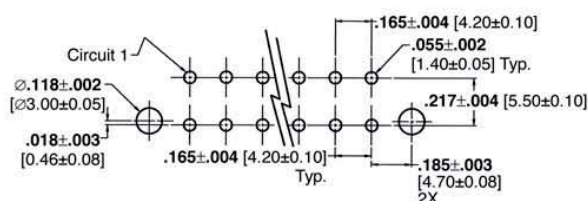
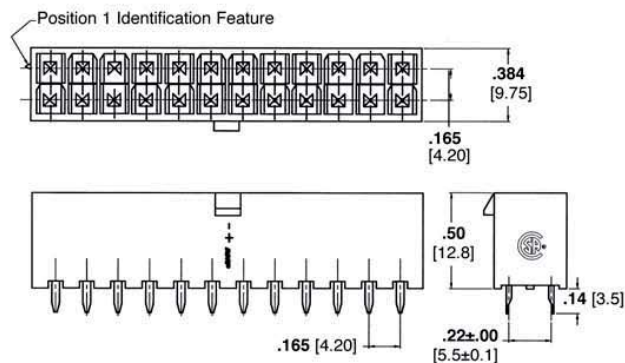
## 4.2 mm PE Series Connector System, Wire-to-Wire and Wire-to-Board

### PIN HEADERS — PRODUCT OFFERING

No. of Positions	UL 94V-2 Pin Headers				UL 94V-0 Pin Headers			
	Vertical		Right-Angle		Vertical		Right-Angle	
	w/o Pegs	w/Pegs	w/o Pegs	Screw Mount	w/Pegs	w/o Pegs	w/o Pegs	Screw Mount
2	1586037-2	1586039-2	1586041-2	1586043-2	1586038-2	1586040-2	1586042-2	1586044-2
4	1586037-4	1586039-4	1586041-4	1586043-4	1586038-4	1586040-4	1586042-4	1586044-4
6	1586037-6	1586039-6	1586041-6	1586043-6	1586038-6	1586040-6	1586042-6	1586044-6
8	1586037-8	1586039-8	1586041-8	1586043-8	1586038-8	1586040-8	1586042-8	1586044-8
10	1-1586037-0	1-1586039-0	1-1586041-0	1-1586043-0	1-1586038-0	1-1586040-0	1-1586042-0	1-1586044-0
12	1-1586037-2	1-1586039-2	1-1586041-2	1-1586043-2	1-1586038-2	1-1586040-2	1-1586042-2	1-1586044-2
14	1-1586037-4	1-1586039-4	1-1586041-4	1-1586043-4	1-1586038-4	1-1586040-4	1-1586042-4	1-1586044-4
16	1-1586037-6	1-1586039-6	1-1586041-6	1-1586043-6	1-1586038-6	1-1586040-6	1-1586042-6	1-1586044-6
18	1-1586037-8	1-1586039-8	1-1586041-8	1-1586043-8	1-1586038-8	1-1586040-8	1-1586042-8	1-1586044-8
20	2-1586037-0	2-1586039-0	2-1586041-0	2-1586043-0	2-1586038-0	2-1586040-0	2-1586042-0	2-1586044-0
22	2-1586037-2	2-1586039-2	2-1586041-2	2-1586043-2	2-1586038-2	2-1586040-2	2-1586042-2	2-1586044-2
24	2-1586037-4	2-1586039-4	2-1586041-4	2-1586043-4	2-1586038-4	2-1586040-4	2-1586042-4	2-1586044-4

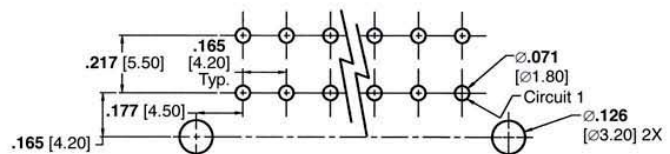
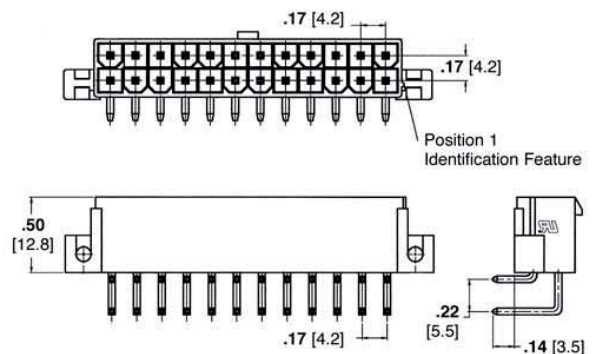
### PRODUCT DIMENSIONS

**Vertical Pin Headers** (Part No. 1586037 shown w/o pegs)



PCB Layout: Component Side (shown with pegs)  
Recommended Board Thickness .070 [1.78]

**Right-Angle Pin Headers** (Part No. 1586043 Screw Mount)



PCB Layout: Component Side (screw mount shown)  
Recommended Board Thickness .063 [1.60]

## 4.2 mm PE Series Connector System, Wire-to-Wire and Wire-to-Board

### CONTACTS — PRODUCT OFFERING

#### Socket Part Numbers

Wire Range (AWG)	Plating			
	A	B	C	D
26-22	794958-1	794958-2	794958-3	794958-4
22-18	794956-1	794956-2	794956-3	794956-4

#### Pin Part Numbers

Wire Range (AWG)	Plating			
	A	B	C	D
26-22	794955-1	794955-2	794955-3	794955-4
22-18	794957-1	794957-2	794957-3	794957-4

#### Plating Codes

A – Brass, Tin Plate

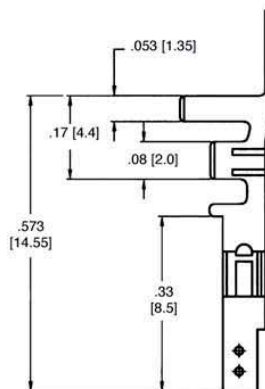
B – Brass, Gold Plate

C – Phos. Bronze, Tin Plate

D – Phos. Bronze, Gold Plate

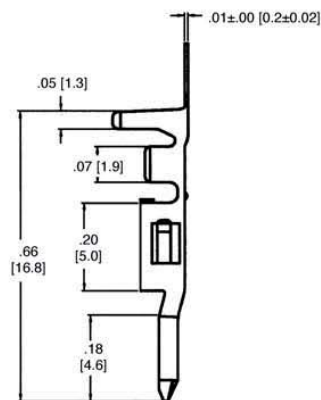
#### Socket

(used in Receptacle Housing)



#### Pin

(used in Plug Housing)



#### Tooling Part Numbers

Wire Range (AWG)	Part Number	Applicator Part Number
26-22	794958-1	1385448-X
	794957-1	
22-18	794956-1	680557-X
	794955-1	

