

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

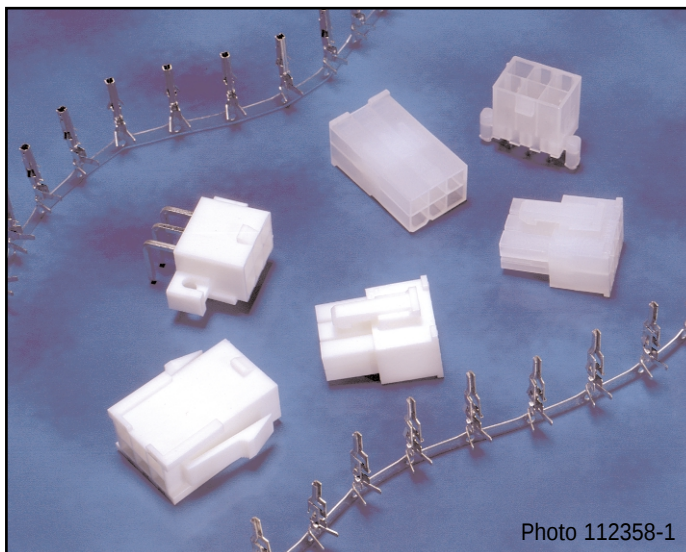
APPLICATIONS

- 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
- Products are lead free to help promote a cleaner environment
- Intermateable and interchangeable with Molex Mini-Fit, Jr. and intermateable AMP-DUAC connectors

Revised 12/03 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 plating (Lead-Free) or gold plating

STANDARDS & SPECS

- Component Recognized by UL and Certified by CSA
- UL File No. E28476 and CSA File No. 208567
- Tyco Electronics Design For Environment (DFE) Standard 230-5

FOR MORE INFORMATION

Technical Support

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Hong Kong: 852-2735-1628

Japan: 81-44-844-8013

UK: 44-141-810-8967

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

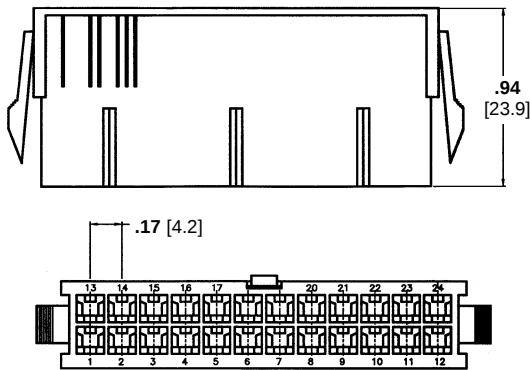
HOUSINGS — PRODUCT OFFERING

UL 94V-2 Housings				UL 94V-0 Housings		
No. of Positions	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

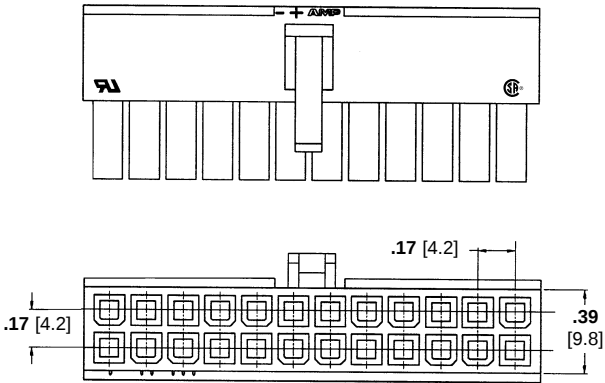
Note: Plug housings accept pin contacts and receptacle housings accept socket contacts on page 4.

PRODUCT DIMENSIONS

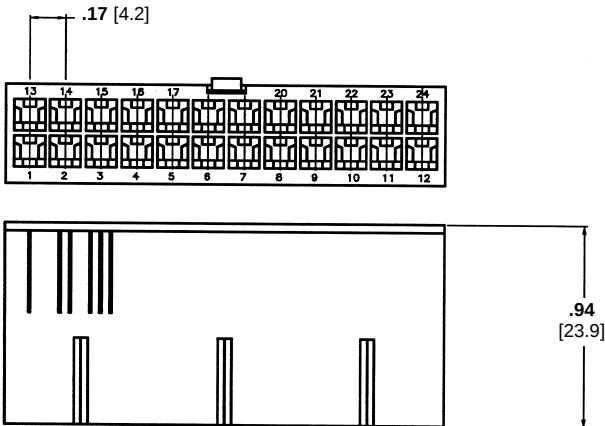
Panel Mount Plug Housing



Receptacle Housing



Free-Hanging Plug Housing



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

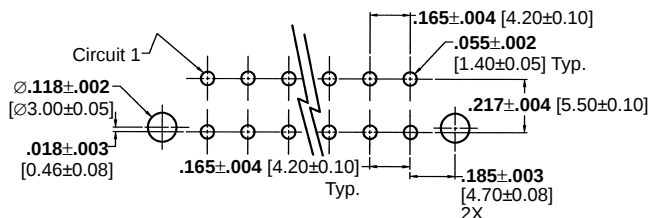
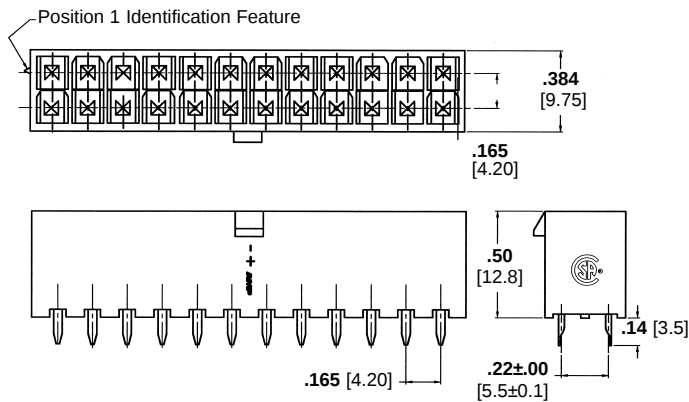
PIN HEADERS — PRODUCT OFFERING

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/o Pegs	w/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

Note: All Headers have Brass, Tin-Plated contacts.

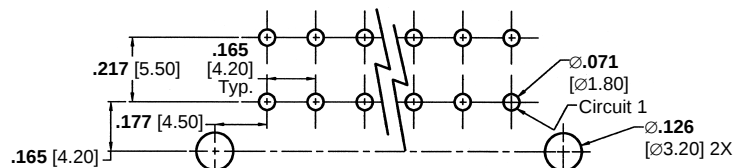
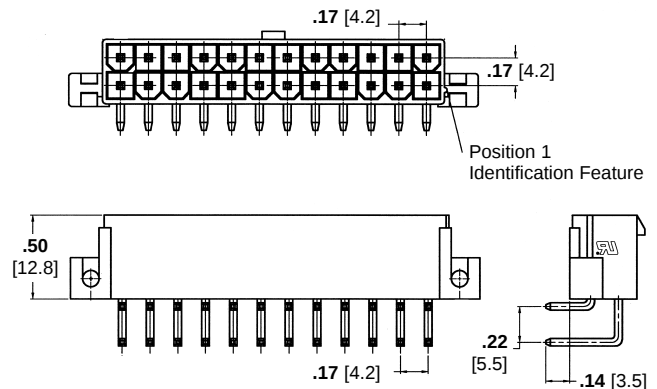
PRODUCT DIMENSIONS

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

Plating Codes

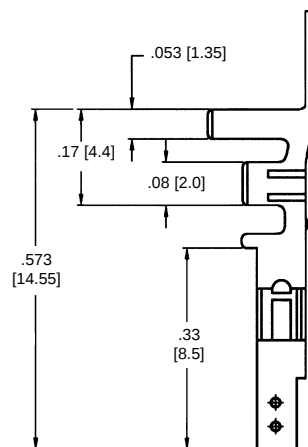
A – Brass, Tin Plate (Lead-Free)
B – Brass, Gold Plate
C – Phos. Bronze, Tin Plate (Lead-Free)
D – Phos. Bronze, Gold Plate

Pin Part Numbers

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

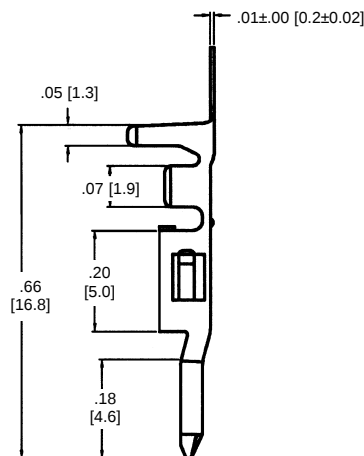
Socket

(used in Receptacle Housing)



Pin

(used in Plug Housing)



Tooling Part Numbers

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

