

**Product Facts**

**Wire-to-board and wire-to-wire connector system**

**Free hanging or panel mount plug housings**

**Vertical header with or without mounting pegs and with or without drain holes**

**Selective loading available on vertical headers**

**4.2 mm x 4.2 mm centerline**

**Male and female contacts designed for 26-22 AWG and 22-18 AWG wire**

**Receptacle housings accept female contacts with less orientation than competitive product**

**Right-angle headers**

**Designed for power applications**

**Positive latch feature helps prevent disconnection**

**AMP-DUAC (dual action) receptacle contacts**

**Anti-stubbing contact design**

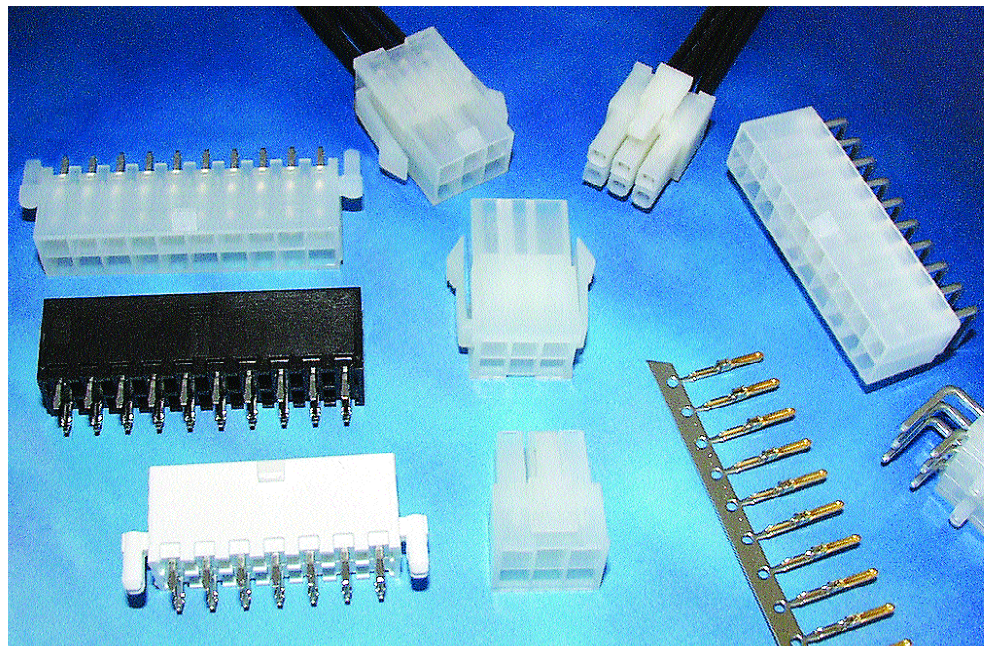
**Polarized housings**

**Intermateable with Molex Mini-Fit Jr. connectors**

**Recognized under Component Program of Underwriters Laboratories Inc., File No. E28476**



**Certified by Canadian Standards Association, File No. LR7189**



AMP-DUAC Connectors, for power or signal applications, belong to the broad family of Tyco Electronics Soft Shell connectors.

The dual action design of the female receptacle contact provides for low insertion force, yet maintains high-performance current capacity. To help meet your production requirements, semiautomatic bench machines and hand tools are available for strip and loose piece contacts, respectively.

High density, 4.2 mm x 4.2 mm [.165 x .165] centerline, dual-row receptacle housings mate with plug housings (free hanging or panel mount) or pc board headers (vertical or right-angle). Selective contact loading is available for vertical headers.

All housings are polarized for easier mating and locking latches help maintain reliable connections.

AMP-DUAC wire-to-board, wire-to-panel, and wire-to-wire connectors are intermateable with Molex Mini-Fit Jr. series connectors.

**Technical Documents**

**Product Specifications**

108-1699 — Headers  
108-19099 — Receptacles

**Application Specifications**

114-6067 — Crimping Contacts  
114-19048 — Use of Receptacles

**Qualification Test Report**

501-434

**Performance Data**

**Voltage Rating** — 600 VAC

**Current Rating** — 9 amps maximum in 2 position applications

**Low Level Resistance** — 10 megohms max.

**Dielectric Withstanding Voltage** — 1500 VAC/min.

**Insulation Resistance** — 1000 megohms minimum

**Operating Temperature** — -55°C to +105°C [-67°F to +221°F]

**Need more information?**

Call Technical Support.

Technical Support is staffed with specialists well versed in Tyco Electronics products. They can provide you with:

**Technical support**

**Catalogs**

**Technical Documents**

**Product Samples**

**Tyco Electronics Authorized Distributor Locations**

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Mini-Fit Jr. is a trademark of Molex Incorporated.

**Receptacle Housings**

**2-24 Position Housings**

Accept female contacts.

**Material**

**Housings**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

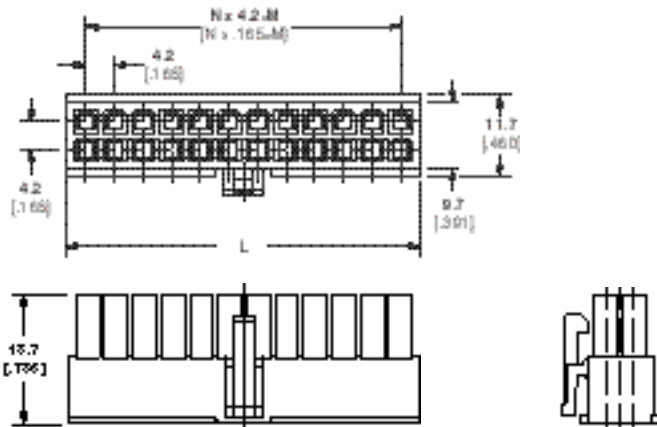
**Related Product Data**

**Mate with**—Vertical headers (pages 4-9), right-angle headers (page 9) and plug housings (page 3).

**Contacts**—See below.

**Strain Relief**—Page 10

**Technical Documents**—Page 1



Number of Positions	Dimensions			Part Number	
	L	M	N	UL 94V-2 Natural	UL 94V-0 White
2	5.5 .216	—	1	106527-2	794657-2
4	9.7 .381	4.2 .165	1	106527-4	794657-4
6	13.9 .547	8.4 .330	2	106527-6	794657-6
8	18.1 .712	12.6 .496	3	106527-8	794657-8
10	22.3 .877	16.8 .661	4	1-106527-0	1-794657-0
12	26.5 1.043	21.0 .826	5	1-106527-2	1-794657-2
14	30.7 1.208	25.2 .992	6	1-106527-4	1-794657-4
16	34.9 1.374	29.4 1.157	7	1-106527-6	1-794657-6
18	39.1 1.539	33.6 1.322	8	1-106527-8	1-794657-8
20	43.3 1.704	37.8 1.488	9	2-106527-0	2-794657-0
22	47.5 1.870	42.0 1.653	10	2-106527-2	2-794657-2
24	51.7 2.035	46.2 1.818	11	2-106527-4	2-794657-4

**Female Contacts**

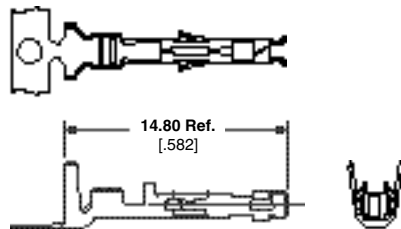
Used in receptacle housings.

**Application Tooling**—Page 10

**Technical Documents**

**Product Specifications**  
108-1699 AMP-DUAC Header  
108-19099 AMP-DUAC Receptacle

**Application Specifications**  
114-19048 AMP-DUAC Receptacle Contact  
114-6067 Crimping Contacts



Wire Size Range AWG [mm²]	Ins. Dia. Range	Plating	Part Number	
			Strip	Loose Piece
22-18 [.3-.8]	1.5-2.4 .059-.094	Tin	106529-2	1-106529-2
		Gold	794138-3	794141-3
26-22 [.12-.3]	1.3-1.75 .047-.069	Tin	106528-2	1-106528-2
		Gold	794139-3	794142-3
2@18 [.8]	3.3 Total Max. .130	Tin	794418-1	794421-1
		Gold	794140-3	794143-3

Extraction Tool Part Number 188688-1

**Plug Housings**

**2-24 Position Housings**

Accept male contacts.

**Material**

**Housings**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

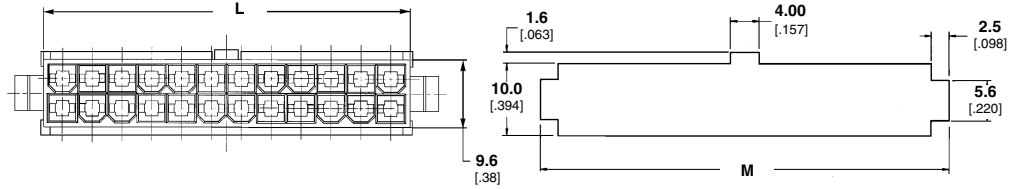
**Related Product Data**

**Mate with**—Receptacle housings (page 2)

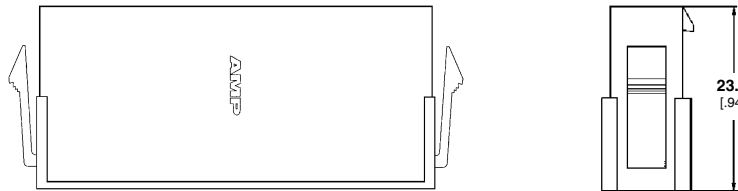
**Contacts**—See below.

**Strain Relief**—Page 10

**Technical Documents**—Page 1



**Recommended Cutout for 2.00 [0.079] Max. Thick Panel**



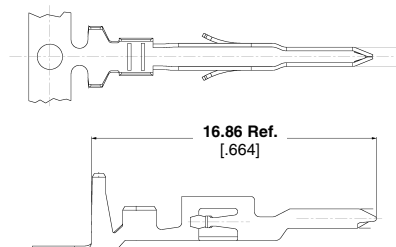
Number of Positions	Dimensions		Part Number			
			UL 94V-2, Natural		UL 94V-0, White	
			L	M	Free Hanging	Panel Mount
2	5.4 .213	10.8 .425	794542-2	794550-2	*794594-2	*794598-2
4	9.6 .378	15.0 .591	794542-4	794550-4	*794594-4	*794598-4
6	13.8 .543	19.2 .756	794542-6	794550-6	*794594-6	*794598-6
8	18.0 .709	23.4 .921	794542-8	794550-8	*794594-8	*794598-8
10	22.2 .874	27.6 1.087	1-794542-0	1-794550-0	*1-794594-0	*1-794598-0
12	26.4 1.039	31.8 1.252	1-794542-2	1-794550-2	*1-794594-2	*1-794598-2
14	30.6 .205	36.0 1.417	1-794542-4	1-794550-4	*1-794594-4	*1-794598-4
16	34.8 1.370	40.2 1.583	1-794542-6	1-794550-6	*1-794594-6	*1-794598-6
18	39.0 1.535	44.4 1.748	1-794542-8	1-794550-8	*1-794594-8	*1-794598-8
20	43.2 1.701	48.6 1.913	2-794542-0	2-794550-0	*2-794594-0	*2-794598-0
22	47.4 1.866	52.8 2.079	2-794542-2	2-794550-2	*2-794594-2	*2-794598-2
24	51.6 2.032	57.0 2.244	2-794542-4	2-794550-4	*2-794594-4	*2-794598-4

\*Call for availability.

**Male Contacts**

Used in plug housings.

**Application Tooling**—Page 10



Wire Size Range AWG [mm²]	Ins. Dia. Range	Plating	Part Number	
			Strip	Loose Piece
22-18 [.3-.8]	1.5-2.4 .059-.094	Tin	794576-1	794577-1
26-22 [.12-.3]	1.3-1.75 .047-.069	Tin	794578-1	794579-1

**Vertical Header Assemblies**

**2, 4 and 6 Position, with and without Pegs and with and without Drain Holes**

**Material and Finish**

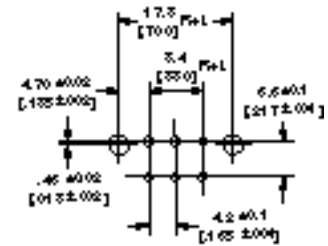
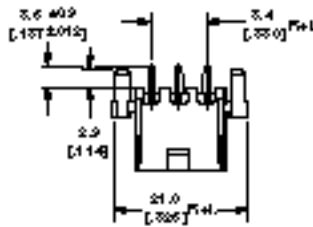
**Housing**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

**Contacts**—0.25 [0.010] thick copper alloy

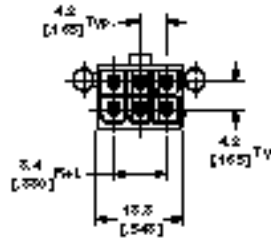
**Related Product Data**

**Mate with**—Receptacle housings (page 2).

**Technical Documents**—Page 1



Recommended PC Board Layout



Number of Positions	PCB Pegs	Drain Holes	Plating	Part Number	
				UL 94V-2, Natural	UL 94V-0, White
2	N	N	Tin/Lead	794664-2	794668-2
	N	N	30 Gold	794665-2	794669-2
	Y	N	Tin/Lead	794662-2	794666-2
	Y	N	30 Gold	794663-2	794667-2
	N	Y	Tin/Lead	794349-1	794543-1
	N	Y	30 Gold	794349-2	794543-2
	Y	Y	Tin/Lead	794302-1	794540-1
	Y	Y	30 Gold	794302-2	794540-2
4	Y	N	Tin/Lead	794662-4	794666-4
	Y	N	30 Gold	794663-4	794667-4
	N	N	Tin/Lead	794664-4	794668-4
	N	N	30 Gold	794665-4	794669-4
	Y	Y	Tin/Lead	794303-1	794466-1
	Y	Y	30 Gold	794303-2	794466-2
	N	Y	Tin/Lead	794350-1	794484-1
	N	Y	30 Gold	794350-2	794484-2
6	Y	Y	Tin/Lead	794304-1	794467-1
	Y	Y	30 Gold	794304-2	794467-2
	N	Y	Tin/Lead	794351-1	794485-1
	N	Y	30 Gold	794351-2	794485-2
	Y	N	Tin/Lead	794662-6	794666-6
	Y	N	30 Gold	794663-6	794667-6
	N	N	Tin/Lead	794664-6	794668-6
	N	N	30 Gold	794665-6	794669-6

**Vertical Header Assemblies (Continued)**

**8 and 10 Position, with and without Pegs and with and without Drain Holes**

**Material and Finish**

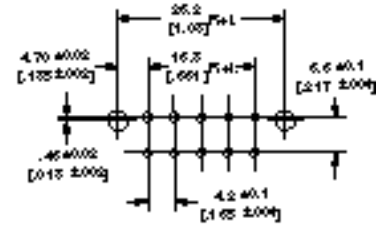
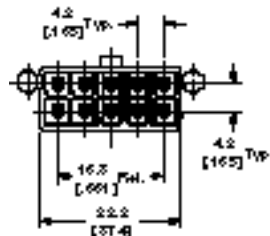
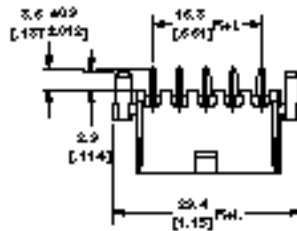
**Housing**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

**Contacts**—0.25 [0.010] thick copper alloy

**Related Product Data**

**Mate with**—Receptacle housings (page 2).

**Technical Documents**—Page 1



Recommended PC Board Layout

Number of Positions	PCB Pegs	Drain Holes	Plating	Part Number	
				UL 94V-2, Natural	UL 94V-0, White
8	Y	N	Tin/Lead	794662-8	794666-8
	Y	N	30 Gold	794663-8	794667-8
	N	N	Tin/Lead	794664-8	794668-8
	N	N	30 Gold	794665-8	794669-8
	Y	Y	Tin/Lead	794305-1	794468-1
	Y	Y	30 Gold	794305-2	794468-2
	N	Y	Tin/Lead	794352-1	794486-1
	N	Y	30 Gold	794352-2	794486-2
10	Y	N	Tin/Lead	1-794662-0	1-794666-0
	Y	N	30 Gold	1-794663-0	1-794667-0
	N	N	Tin/Lead	1-794664-0	1-794668-0
	N	N	30 Gold	1-794665-0	1-794669-0
	Y	Y	Tin/Lead	794306-1	794469-1
	Y	Y	30 Gold	794306-2	794469-2
	N	Y	Tin/Lead	794353-1	794487-1
	N	Y	30 Gold	794353-2	794487-2

**Vertical Header Assemblies (Continued)**

**12 Position, with and without Pegs and with and without Drain Holes**

**Material and Finish**

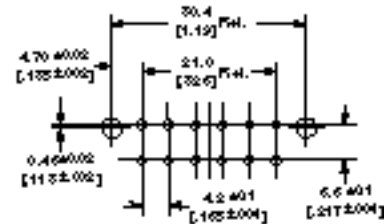
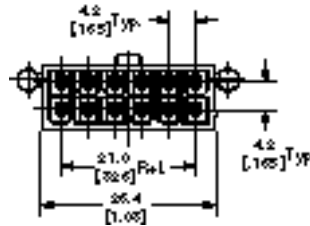
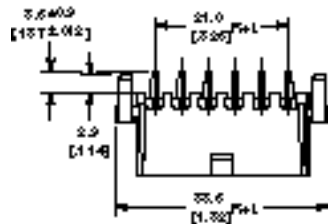
**Housing**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

**Contacts**—0.25 [.010] thick copper alloy

**Related Product Data**

**Mate with**—Receptacle housings (page 2).

**Technical Documents**—Page 1



Recommended PC Board Layout

Number of Positions	PCB Pegs	Drain Holes	Plating	Part Number	
				UL 94V-2, Natural	UL 94V-0, White
12	Y	N	Tin/Lead	1-794662-2	1-794666-2
	Y	N	30 Gold	1-794663-2	1-794667-2
	N	N	Tin/Lead	1-794664-2	1-794668-2
	N	N	30 Gold	1-794665-2	1-794669-2
	Y	Y	Tin/Lead	794307-1	794470-1
	Y	Y	30 Gold	794307-2	794470-2
	N	Y	Tin/Lead	794354-1	794488-1
	N	Y	30 Gold	794354-2	794488-2

**14 Position, with and without Pegs and with and without Drain Holes**

**Material and Finish**

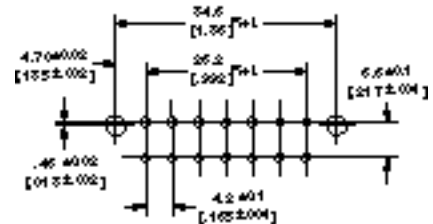
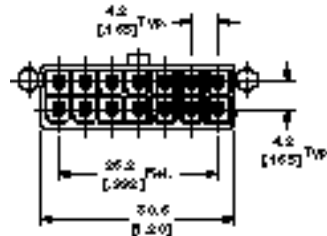
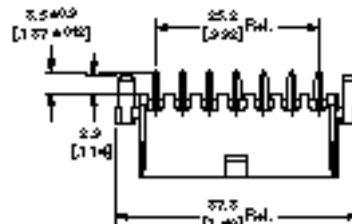
**Housing**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

**Contacts**—0.25 [.010] thick copper alloy

**Related Product Data**

**Mate with**—Receptacle housings (page 2).

**Technical Documents**—Page 1



Recommended PC Board Layout

Number of Positions	PCB Pegs	Drain Holes	Plating	Part Number	
				UL 94V-2, Natural	UL 94V-0, White
14	Y	N	Tin/Lead	1-794662-4	1-794666-4
	Y	N	30 Gold	1-794663-4	1-794667-4
	N	N	Tin/Lead	1-794664-4	1-794668-4
	N	N	30 Gold	1-794665-4	1-794669-4
	Y	Y	Tin/Lead	794308-1	794453-1
	Y	Y	30 Gold	794308-2	794453-2
	N	Y	Tin/Lead	794355-1	794489-1
	N	Y	30 Gold	794355-2	794489-2

**Vertical Header Assemblies (Continued)**

**16 Position,  
with and without Pegs and  
with and without Drain  
Holes**

**Material and Finish**

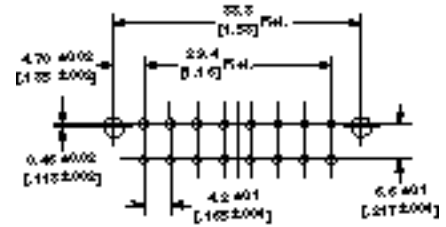
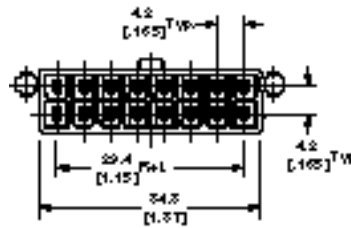
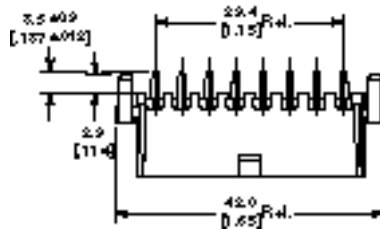
**Housing**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

**Contacts**—0.25 [.010] thick copper alloy

**Related Product Data**

**Mate with**—Receptacle housings (page 2).

**Technical Documents**—Page 1



Recommended PC Board Layout

Number of Positions	PCB Pegs	Drain Holes	Plating	Part Number	
				UL 94V-2, Natural	UL 94V-0, White
16	Y	N	Tin/Lead	1-794662-6	1-794666-6
	Y	N	30 Gold	1-794663-6	1-794667-6
	N	N	Tin/Lead	1-794664-6	1-794668-6
	N	N	30 Gold	1-794665-6	1-794669-6
	Y	Y	Tin/Lead	794309-1	794429-1
	Y	Y	30 Gold	794309-2	794429-2
	N	Y	Tin/Lead	794356-1	794490-1
	N	Y	30 Gold	794356-2	794490-2

**18 Position,  
with and without Pegs and  
with and without Drain  
Holes**

**Material and Finish**

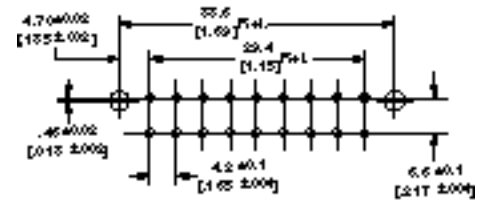
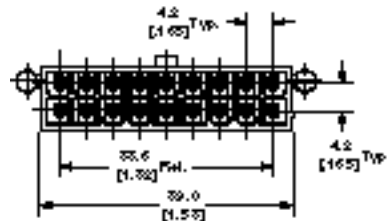
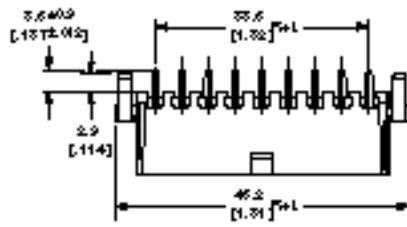
**Housing**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

**Contacts**—0.25 [.010] thick copper alloy

**Related Product Data**

**Mate with**—Receptacle housings (page 2).

**Technical Documents**—Page 1



Recommended PC Board Layout

Number of Positions	PCB Pegs	Drain Holes	Plating	Part Number	
				UL 94V-2, Natural	UL 94V-0, White
18	Y	N	Tin/Lead	1-794662-8	1-794666-8
	Y	N	30 Gold	1-794663-8	1-794667-8
	N	N	Tin/Lead	1-794664-8	1-794668-8
	N	N	30 Gold	1-794665-8	1-794669-8
	Y	Y	Tin/Lead	794310-1	794454-1
	Y	Y	30 Gold	794310-2	794454-2
	N	Y	Tin/Lead	794357-1	794491-1
	N	Y	30 Gold	794357-2	794491-2

**Vertical Header Assemblies (Continued)**

**20 Position, with and without Pegs and with and without Drain Holes**

**Material and Finish**

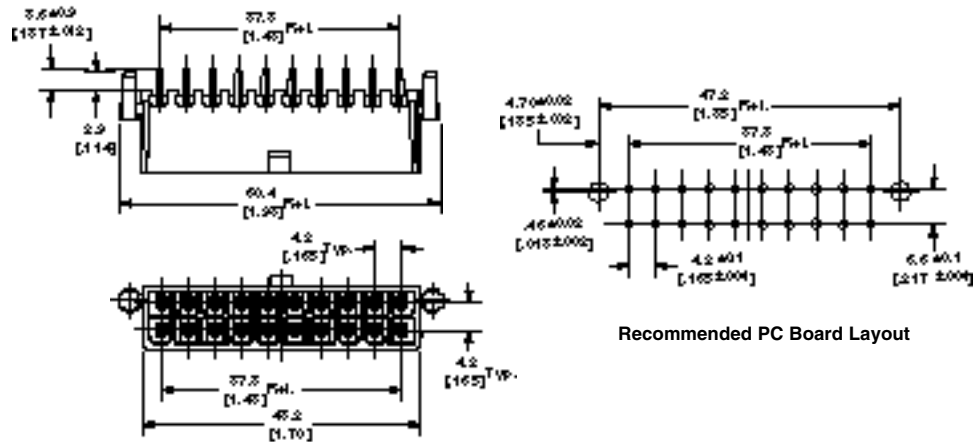
**Housing**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

**Contacts**—0.25 [.010] thick copper alloy

**Related Product Data**

**Mate with**—Receptacle housings (page 2).

**Technical Documents**—Page 1



Number of Positions	PCB Pegs	Drain Holes	Plating	Part Number	
				UL 94V-2, Natural	UL 94V-0, White
20	Y	N	Tin/Lead	2-794662-0	2-794666-0
	Y	N	30 Gold	2-794663-0	2-794667-0
	N	N	Tin/Lead	2-794664-0	2-794668-0
	N	N	30 Gold	2-794665-0	2-794669-0
	Y	Y	Tin/Lead	794311-1	794455-1
	Y	Y	30 Gold	794311-2	794455-2
	N	Y	Tin/Lead	794358-1	794492-1
	N	Y	30 Gold	794358-2	794492-2

**High Temperature Headers**

IR Reflow compatible, UL 94V-0, Black color

Number of Positions	PCB Pegs	Drain Holes	Plating	Part Number
				UL 94V-0, Black
20	N	N	Tin/Lead	794415-1
	N	N	30 Gold	794415-2

**22 Position, with and without Pegs and with and without Drain Holes**

**Material and Finish**

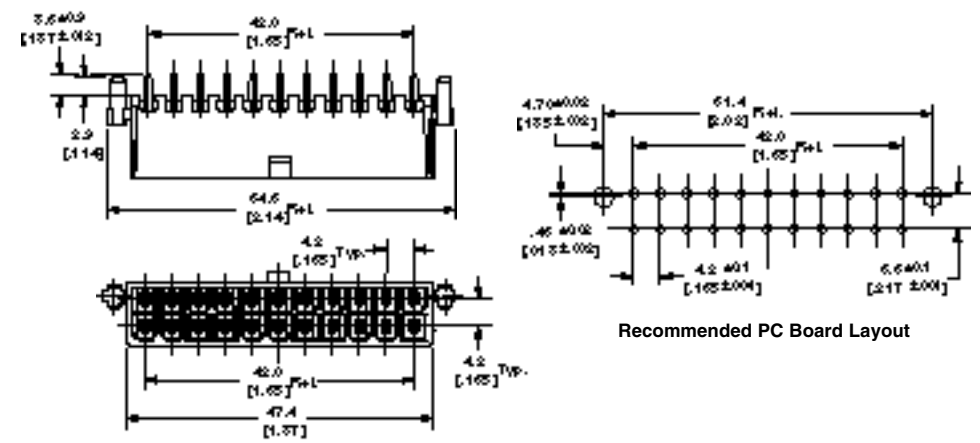
**Housing**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

**Contacts**—0.25 [.010] thick copper alloy

**Related Product Data**

**Mate with**—Receptacle housings (page 2).

**Technical Documents**—Page 1



Number of Positions	PCB Pegs	Drain Holes	Plating	Part Number	
				UL 94V-2, Natural	UL 94V-0, White
22	Y	N	Tin/Lead	2-794662-2	2-794666-2
	Y	N	30 Gold	2-794663-2	2-794667-2
	N	N	Tin/Lead	2-794664-2	2-794668-2
	N	N	30 Gold	2-794665-2	2-794669-2
	Y	Y	Tin/Lead	794312-1	794471-1
	Y	Y	30 Gold	794312-2	794471-2
	N	Y	Tin/Lead	794359-1	794493-1
	N	Y	30 Gold	794359-2	794493-2



**Vertical Header Assemblies (Continued)**

**24 Position, with and without Pegs and with and without Drain Holes**

**Material and Finish**

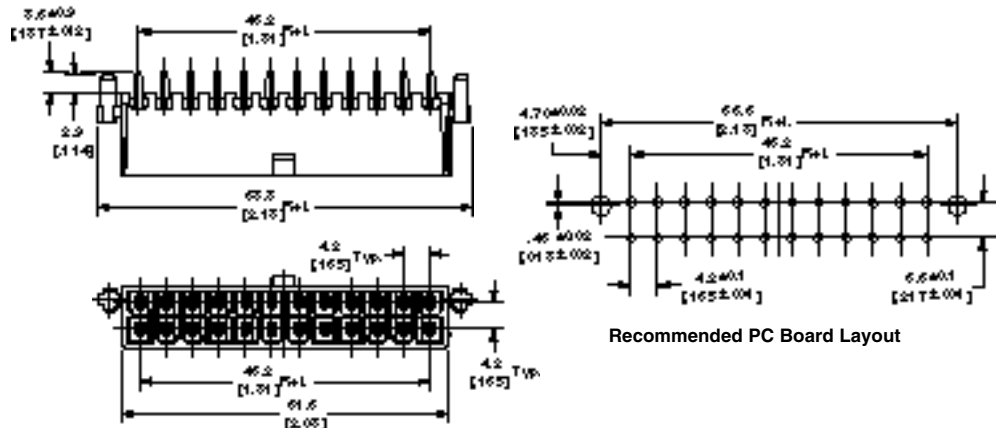
**Housing**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

**Contacts**—0.25 [.010] thick copper alloy

**Related Product Data**

**Mate with**—Receptacle housings (page 2).

**Technical Documents**—Page 1



Number of Positions	PCB Pegs	Drain Holes	Plating	Part Number	
				UL 94V-2, Natural	UL 94V-0, White
24	Y	N	Tin/Lead	2-794662-4	2-794666-4
	Y	N	30 Gold	2-794663-4	2-794667-4
	N	N	Tin/Lead	2-794664-4	2-794668-4
	N	N	30 Gold	2-794665-4	2-794669-4
	Y	Y	Tin/Lead	794313-1	794472-1
	Y	Y	30 Gold	794313-2	794472-2
	N	Y	Tin/Lead	794360-1	794494-1
	N	Y	30 Gold	794360-2	794494-2

**Right-Angle Header Assemblies**

**2-24 Position, with Pegs and without Drain Holes**

**Material and Finish**

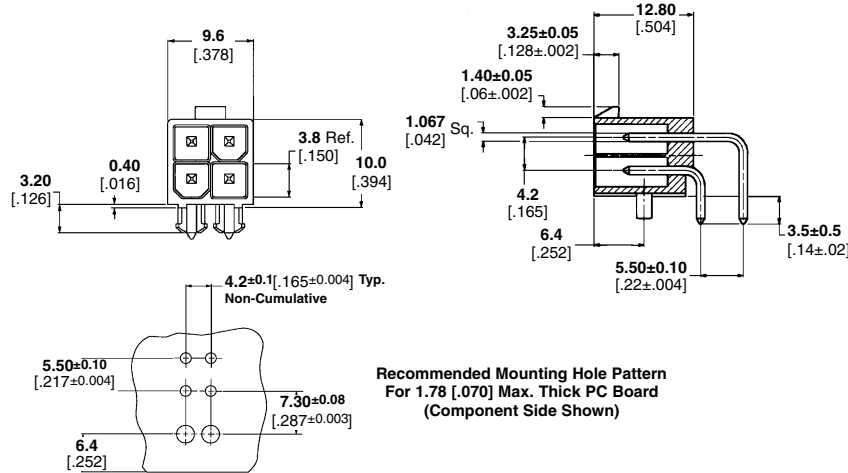
**Housing**—Nylon  
UL 94V-2, Natural color  
UL 94V-0, White color

**Contacts**—0.25 [.010] thick copper alloy

**Related Product Data**

**Mate with**—Receptacle housings (page 2).

**Technical Documents**—Page 1



Number of Positions	PCB Pegs	Drain Holes	Plating	Part Number	
				UL 94V-2, Natural	UL 94V-0, White
2	Y	N	Tin/Lead	794507-1	794526-1
4	Y	N	Tin/Lead	794508-1	794527-1
6	Y	N	Tin/Lead	794448-1	794528-1
8	Y	N	Tin/Lead	794509-1	794529-1
10	Y	N	Tin/Lead	794510-1	794530-1
12	Y	N	Tin/Lead	794511-1	794531-1
14	Y	N	Tin/Lead	794512-1	794532-1
16	Y	N	Tin/Lead	794513-1	794533-1
18	Y	N	Tin/Lead	794514-1	794588-1
20	Y	N	Tin/Lead	794449-1	794534-1
22	Y	N	Tin/Lead	794515-1	794589-1
24	Y	N	Tin/Lead	794516-1	794590-1

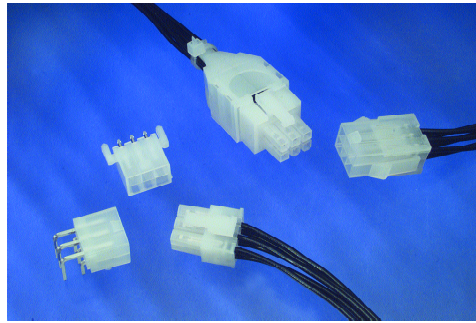
**Accessory**

**Strain Relief, 6 Position  
Part Number 1375618-1**

Used with plug or receptacle housings.

**Wire Bundle Range**—4.19-5.59  
[.165-.220]

**Material**—Nylon  
UL 94V-2, Natural color



**Application Tooling**

**Bench Machines and  
Hand Tools**

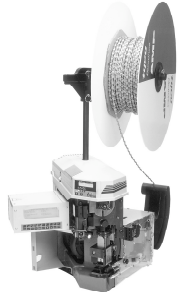
**Related Product Data  
Contacts**—Pages 2 and 3

Wire Size Range AWG [mm <sup>2</sup> ]	Applicator Part Number		
	for AMP-O-LECTRIC Bench Machine	for AMP-O-MATIC Stripper/Crimper Machine	Hand Tool Part Number
22-18 [.3-.8]	680308- *	567959-1	734202-2
26-22 [.12-.3]	680307- *	567960-1	—
2@18 [.8]	680350- *	—	90714-1

**Note:** Extraction Tool Part Number 188688-1 works with female contacts only on page 2.

\*Part Number suffix “-2” indicates Applicator for Model K Machine and “-3” for Model G Machine.

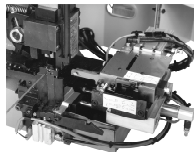
**AMP-O-LECTRIC Model G  
Terminating Machine**



The Model G Terminator is the most advanced design in the long-standing series of AMP-O-LECTRIC machines for terminating wire using reeled terminals and contacts. It features a reliable direct motor drive system. Its modular construction enables it to be used either as a bench-top unit, or in combination with fully-automatic lead-making equipment.

- Quieter
- Improved guarding and lighting
- Toolless changeover of applicators
- Precision manual- or auto-adjust for crimp height
- Total and batch counter
- Request Catalog 65828 for specifications and part numbers.

**Stripping Module (for the  
AMP-O-LECTRIC Model G  
Terminator)**



The combination of the Stripping Module with the AMP-O-LECTRIC Model G Terminator provides an economic and proficient method of stripping the wire and crimping terminals on the same machine. The module accepts End- and Side-Feed HDM Applicators (32-14 AWG) and operates in three modes: crimp only, strip only, or strip and crimp. It can be installed on existing machines in the field or purchased as one unit from the factory.

For more information, request Catalog 1309085.

**AMP-O-MATIC Side-Feed  
Stripper/Crimper Machine**



This semiautomatic bench machine strips and terminates wire in a single operation. You simply position the wire against a spot illuminated on the wire stop and cycle the machine. In the automatic mode, the machine cycles when the wire touches the wire stop.

Using interchangeable applicators, this versatile machine is ideal for terminating jacketed cable with a variety of pin and socket contacts.

- Strip and terminate wires
- Fast set-up times: 10 minutes or less
- Illuminated target area
- Convenient scrap removal
- Select foot switch or wire-sensor mode of operation
- Request Catalog 65004 for specifications and part numbers.

**Part Number Index**

**Note:** This index lists all cataloged parts by base no. only. Complete part nos. (with prefixes and/or suffixes) are shown on the page(s) indicated.

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794139	2	794468	5	794577	3
794140	2	794469	5	794578	3
794141	2	794470	6	794579	3
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794143	2	794472	9	794589	9
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794303	4	794485	4	794594	3
794304	4	794486	5	794598	3
794305	5	794487	5	794657	2
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794307	6	794489	6	794663	4, 5, 6, 7, 8, 9
794308	6	794490	7	794664	4, 5, 6, 7, 8, 9
794309	7	794491	7	794665	4, 5, 6, 7, 8, 9
794310	7	794492	8	794666	4, 5, 6, 7, 8, 9
794311	8	794493	8	794667	4, 5, 6, 7, 8, 9
794312	8	794494	9	794668	4, 5, 6, 7, 8, 9
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794352	5	794511	9		
794353	5	794512	9		
794354	6	794513	9		
794355	6	794514	9		
794356	7	794515	9		
794357	7	794516	9		
794358	8	794526	9		
794359	8	794527	9		
794360	9	794528	9		
794415	8	794529	9		
794418	2	794530	9		
794421	2	794531	9		
794429	7	794532	9		
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**Americas**

**Argentina** – Buenos Aires  
 Phone: +54-11-4733-2200  
 Fax: +54-11-4733-2250

**Brasil** – São Paulo  
 Phone: +55-11-3611-1311  
 Fax: +55-11-3611-0397

**Canada** – Markham  
 Phone: +905-475-6222  
 Fax: +905-474-5520

**Product Information Center:  
 (Technical Support)**  
 Phone: +905-470-4425  
 Fax: +905-474-5525

**Colombia** – Bogota  
 Phone: +57-1-240-9396  
 Fax: +57-1-660-0206

**Mexico** – Mexico City  
 Phone: +52-55-5-729-0425  
 Fax: +52-55-5-398-1430

**United States** – Harrisburg, PA  
 Phone: +717-564-0100  
 Fax: +717-986-7575

**Product Information Center:  
 (Technical Support)**  
 Phone: +800-522-6752  
 Fax: +717-986-7575

**For Latin/South American  
 Countries not shown**  
 Phone: +57-1-240-9396  
 Fax: +57-1-660-0206

**Asia/Pacific**

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 Phone: +61-2-9840-8200  
 Fax: +61-2-9899-5649

**Product Information Center:  
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 Fax: +61-2-9502-2556

**India** – Bangalore  
 Phone: +91-80-841-0200  
 Fax: +91-80-841-0210

**Indonesia** – Jakarta  
 Phone: +6221-526-7852  
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**Japan** – Kawasaki, Kanagawa  
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 Fax: +81-44-844-8733

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 (Technical Support)**  
 Phone: +81-44-844-8013  
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**Raychem Products**  
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 Fax: +81-44-5025-5027

**Korea** – Seoul  
 Phone: +82-2-3274-0535  
 Fax: +82-2-3274-0524/0531

**Malaysia** – Selangor  
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**Philippines** – Makati City  
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 Fax: +632-867-8661

**People's Republic of China**  
 Hong Kong  
 Phone: +852-2735-1628  
 Fax: +852-2735-0243

Shanghai  
 Phone: +86-21-6485-0602  
 Fax: +86-21-6485-0728

Shunde  
 Phone: +86-765-775-1368  
 Fax: +86-765-775-2823

**Singapore** – Singapore  
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 Fax: +65-4821-012

**Raychem Products**  
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 Fax: +84-8-8221-443

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 Phone: +43-190-560-0  
 Fax: +43-190-560-1333

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 Fax: +32-16-352-352

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 Phone: +359-2-971-2152  
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**Czech Republic** – Kurim  
 Phone: +420-5-41-162-111  
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 Phone: +45-70-15-52-00  
 Fax: +45-86-29-51-33

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 Phone: +20-2-417-76-47  
 Fax: +20-2-419-23-34

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 Phone: +372-65-05-474  
 Fax: +372-65-05-470

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 Phone: +358-95-12-34-20  
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 Phone: +33-1-3420-8888  
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**Product Information Center:  
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 Fax: +33-1-3420-8623

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 Phone: +33-1-3440-7200  
 Fax: +33-1-3440-7220 or  
 +33-1-3440-7230

**Germany** – Bensheim  
 Phone: +49-6251-133-0  
 Fax: +49-6251-133-1600

**Product Information Center:  
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 Fax: +49-6251-133-1988

**Germany** – Langen  
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**Germany** – Speyer  
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 Fax: +49-6232-30-2243

**Germany**  
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 Fax: +44-181-954-6234

**Product Information Center:  
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 Phone: +31-73-6246-999  
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 Fax: +34-93-201-7879

**Product Information Center:  
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 Phone: +34-93-291-0330  
 Fax: +34-93-200-3779

**Sweden** – Upplands Väsby  
 Phone: +46-8-50-72-50-00  
 Fax: +46-8-50-72-50-01

**Switzerland** – Steinach  
 Phone: +41-71-447-0447  
 Fax: +41-71-447-0444

**Turkey** – Istanbul  
 Phone: +90-212-281-8181...3  
 +90-212-282-5130/5430  
 Fax: +90-212-281-8184

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 Phone: +38-044-238-6908  
 Fax: +38-044-568-5740