

Mini-Universal MATE-N-LOK Connectors (Continued)

Mini-Universal MATE-N-LOK Connector Mating Combinations

Number of Circuits	Connector Part Number				Mating Connector Part Number				
	Flammability Rating	Style	Plug ¹ Housing Part No.	Cap ¹ Housing Part No.	PC Board Pin Headers				Right-Angle With Board Lock
					Plating	With Drain Holes	Vertical Without Drain Holes	Blindmate	
1	UL94V-2	In-Line	172335-1	172327-14	—	—	—	—	—
	UL94V-0	In-Line	172164-1	172156-14	Tin ⁶	—	—	—	1-794374-0
2	UL94V-2	In-Line	172336-1	172328-12	Duplex ⁵	—	—	—	—
			172807-1 ³	172343-14	—	—	—	—	—
	UL94V-0	In-Line	172165-1	172157-12	—	—	—	—	—
			794894-17	172233-14	Tin ⁶	1-770166-0	1-770872-0	—	1-770966-0
			172808-1 ³	172807-1 ³	Duplex ⁵	1-770166-1	1-770872-1	—	1-770966-1
3	UL94V-2	In-Line	172337-1	172329-12	Tin/Duplex	1-770166-1	1-770872-1	—	1-770966-1
			173957-1 ³	172344-14	—	—	—	—	—
	UL94V-0	In-Line	172166-1	172158-12	—	—	—	—	—
			172809-1 ³	172234-14	Tin	1-770170-0	1-770873-0	—	1-770967-0
			173958-1 ³	172809-1 ³	Duplex ⁵	1-770170-1	1-770873-1	—	1-770967-1
4	UL94V-2	Dual Row	172338-1	172330-12	—	—	—	—	—
			173958-1 ³	173958-1 ³	—	—	—	—	—
	UL94V-0	Dual Row	172167-1	172159-12	Tin	1-770174-0	1-770874-0	1-794325-0	1-770968-0
			794805-17	794939-12.7	Duplex ⁵	1-770174-1	1-770874-1	1-794325-1	1-770968-1
6	UL94V-2	Dual Row	172339-1	172331-12	Tin/Duplex	1-770174-1	1-770874-1	—	1-770968-1
			172168-1	172160-12	—	—	—	—	—
	UL94V-0	Dual Row	794895-17	794940-12.7	Tin	1-770178-0	1-770875-0	1-794326-0	1-770969-0
8	UL94V-0	Dual Row	770579-1	—	Duplex ⁵	1-770178-1	1-770875-1	1-794326-1	1-770969-1
			794821-17	794941-12.7	Tin/Duplex	1-770178-1	1-770875-1	—	1-770969-1
9	UL94V-2	Matrix	172340-1	172332-12	—	—	—	—	—
			172169-1	172161-12	Tin	1-770182-0	1-770876-0	1-794432-0	—
	UL94V-0	Matrix	—	—	Duplex ⁵	1-770182-1	1-770876-1	1-794432-1	—
10	UL94V-0	Dual Row	770580-1	—	Tin	1-770743-0	1-770858-0	1-794328-0	1-770971-0
			794781-17	794942-12.7	Duplex ⁵	1-770743-1	1-770858-1	1-794328-1	1-770971-1
12	UL94V-2	Matrix	172341-1	172333-12	Tin/Duplex	1-770743-1	1-770858-1	—	1-770971-1
			172170-1	172162-12	—	—	—	—	—
	UL94V-0	Dual Row	770581-1	—	Tin	1-770186-0	1-794040-0	1-794329-0	—
			770582-1	—	Duplex ⁵	1-770186-1	1-794040-1	1-794329-1	—
14	UL94V-0	Dual Row	770582-1	—	Tin	1-794066-0	1-770621-0	—	1-770972-0
			172342-1	172334-12	Duplex ⁵	1-794066-1	1-770621-1	—	1-770972-1
15	UL94V-2	Matrix	172342-1	172334-12	Tin	1-794067-0	1-794074-0	—	1-770973-0
			172171-1	172163-12	Duplex ⁵	1-794067-1	1-794074-1	—	1-770973-1
16	UL94V-0	Dual Row	770583-1	—	—	—	—	—	—
			770584-1	—	Tin	1-770190-0	1-770859-0	1-794330-0	—
18	UL94V-0	Dual Row	770584-1	—	Duplex ⁵	1-770190-1	1-770859-1	1-794330-1	—
			770585-1	—	Tin	1-794068-0	1-794075-0	—	1-770974-0
20	UL94V-0	Dual Row	770585-1	—	Duplex ⁵	1-794068-1	1-794075-1	—	1-770974-1
			770586-1	—	Tin	1-794069-0	1-794076-0	—	1-794105-0
22	UL94V-0	Dual Row	770586-1	—	Duplex ⁵	1-794069-1	1-794076-1	—	1-794105-1
			770587-1	—	Tin	1-794070-0	1-794077-0	—	1-794106-0
24	UL94V-0	Dual Row	770587-1	—	Duplex ⁵	1-794070-1	1-794077-1	—	1-794106-1
			—	—	Tin	1-794071-0	1-794078-0	—	1-794107-0
					Duplex ⁵	1-794071-1	1-794078-1	—	1-794107-1
					Tin	1-794072-0	1-794079-0	—	1-794108-0
					Duplex ⁵	1-794072-1	1-794079-1	—	1-794108-1

¹Mini-Universal MATE-N-LOK plug and cap housings accept pin or socket contacts. Use the appropriate contacts in the plug housing as required by the mating connector. All **Plugs** are **free-hanging** and **Caps** are **free-hanging** or **panel mount**, unless otherwise noted.

²Panel mount only.

³Hermaphroditic: Mates to itself.

⁴Free-hanging only.

⁵Duplex Finish — Plated with .000030 [.000762] min. gold in mating area and matte tin on solder tail end over .000050 [.00127] min. nickel underplate on entire contact.

⁶Tin Finish — Plated with .000150 [.00381] min. tin over .000050 [.00127] min. nickel underplate on entire contact.

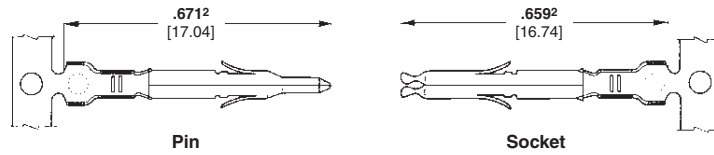
⁷For Splash-Proof Sealing.

Note: All part numbers are RoHS Compliant.

Mini-Universal MATE-N-LOK Connectors (Continued)

Contacts

Pin diameter .039 [0.99]



Material

Brass or Phosphor bronze
Stock Thickness .008 [0.20]

These contacts are to be used in Mini-Universal MATE-N-LOK Plug or Cap housings only.

Related Product Data

- Product Specifications**
108-1542 Mini-Universal MATE-N-LOK Connectors
108-1543 Mini-Universal MATE-N-LOK Headers

Application Specification

114-16017 Mini-Universal MATE-N-LOK Connectors

Performance Characteristics—pages 83-84

Housings—pages 87-89

Technical Documents—pages 83 and 205-206

Application Tooling—pages 207-210

Wire Size Range AWG [mm ²]	Ins. Dia. Range	Material and Finish	Contact Part Numbers				HDM Applicator Part No.	Hand Tool Part No.
			Pin		Socket			
			Strip Form	Loose Pieces	Strip Form	Loose Pieces		
30-26 [.05-.12]	.035-.050 [.889-1.27]	Brass, Pre-tin	770835-1	794059-1	770834-1	794058-1	567418-1 ³	90717-2
		Phos. Brz., Pre-tin	—	—	770834-4	—	567418-2 ³	
		Brass, Duplex ¹	1-770835-0	1-794059-0	1-770834-0	1-794058-0	567418-3 ³	
26-22 [.12-.3]	.047-.069 [1.19-1.75]	Brass, Pre-tin	770901-1	770985-1	770902-1	770986-1	567066-3 ⁴	91529-1
		Phos. Brz., Pre-tin	—	—	770902-4	—	567066-4 ⁴	
		Brass, Duplex ¹	1-770901-0	1-770985-0	1-770902-0	1-770986-0	567066-5 ⁴	
22-18 [.3-.8] or 22 x (2) [.3]	.059-.094 [1.50-2.39] or .067 x (2) [3.38]	Brass, Pre-tin	770903-1	770987-1	770904-1	770988-1	567067-1 ³	91522-1
		Phos. Brz., Pre-tin	—	—	770904-4	—	567067-2 ³	
		Brass, Duplex ¹	1-770903-0	1-770987-0	1-770904-0	1-770988-0	567067-3 ³	
20-16 [.5-1.2] or 20 x (2) [.5]	.079-.126 [2.01-3.20] or .075 x (2) [1.91]	Brass, Pre-tin	794406-1 ²	171638-1 ²	794407-1 ²	171639-1 ²	680582-2 ³	91536-1
		Phos. Brz., Pre-tin	—	—	794407-4 ²	—	680582-3 ³	
		Brass, Duplex ¹	1-794406-0 ²	—	1-794407-0 ²	—	680582-3 ³	
		Phos. Brz., Duplex ¹	—	—	1-770904-1	—		

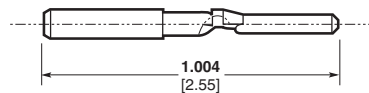
¹ Duplex Finish — Plated with .000030 [.000762] min. gold in mating area and .000100 [.00254] min. tin in crimping area over .000050 [.00127] min. nickel underplate on entire contact.
² .671 [17.04] and .659 [16.74] dimensions are .689 [17.50] for indicated part numbers.
³ HDM Applicator part number ending in -1 is used on AMPOMATOR CLS Machine with T or G Terminators, -2 is used on AMP-O-LECTRIC Model K Machine, -3 is used on AMP-O-ELECTRIC Model G Machine. See pages 207-210 for further information.
⁴ HDM Applicator part number ending in -3 is used on AMPOMATOR CLS Machine with T or G Terminators, -4 is used on AMP-O-LECTRIC Model K Machine, -5 is used on AMP-O-LECTRIC Model G Machine. See pages 207-210 for further information.

Note: All part numbers are RoHS Compliant.

Keying Plug

Material

UL94V-0 Nylon, white color

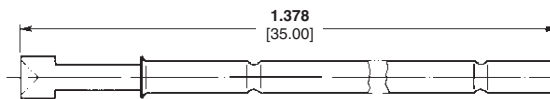


Part Number
174670-1

Test Probe Contact

Material and Finish

Phosphor bronze, nickel plated



Part Number
172971-1

Notes:

1. The test probe is inserted into the housing in the same direction as indicated by the **arrow** shown to the right.
2. The test probe can be used in the Cap or Plug Housing.
3. Test probes are supplied unassembled.



Contact Extraction Tool
No. 189727-1
IS 408-4118



Contact Insertion Tool
(For inserting contacts applied to small diameter wire)
No. 91002-1
IS 408-7347

Mini-Universal MATE-N-LOK Connectors .163 [4.14] Centerline High Density

Mini-Universal MATE-N-LOK Connectors (Continued)

Housings

Free-Hanging or Panel Mount

.163 [4.14] Centerline spacing

Related Product Data

- Product Specifications**
 108-1542 Mini-Universal MATE-N-LOK Connectors
 108-1543 Mini-Universal MATE-N-LOK Headers
 108-5151 Mini-Universal MATE-N-LOK Connectors (UL94V-2)
 108-5138 Mini-Universal MATE-N-LOK Connectors (UL94V-0)

Performance Characteristics—
pages 83-84

Contacts — page 86

Keying Plug — page 86

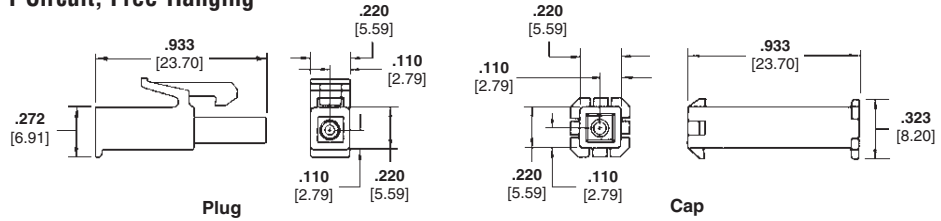
Test Probe Contact — page 86

Panel Cutout Recommendations—
page 89

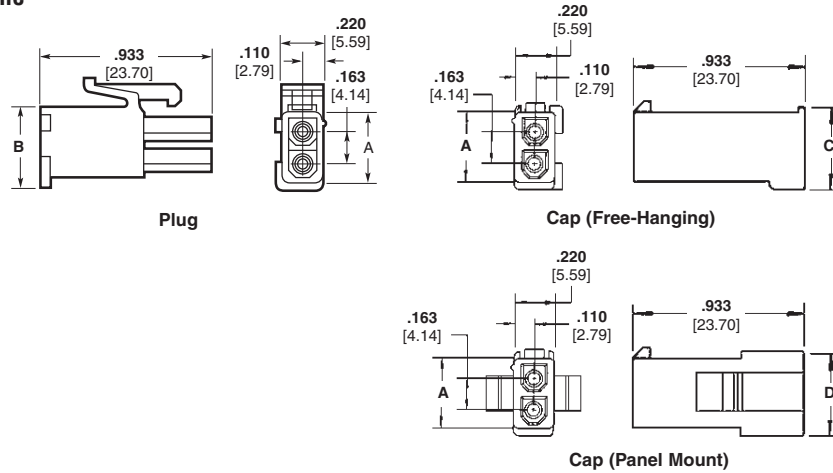
Technical Documents—pages 83
and 205-206

Mating Headers — pages 90-92

1 Circuit, Free-Hanging



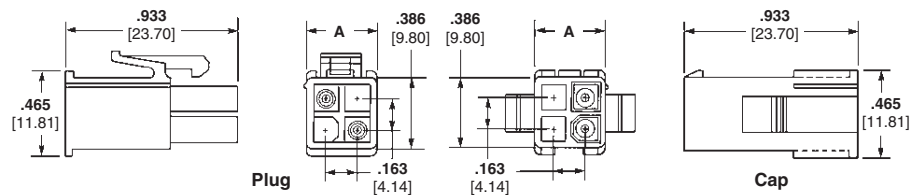
2 and 3 Circuit, In-Line



Number of Circuits	Dimensions				Housing Part Numbers ¹					
					UL94V-0 Nylon, White Color			UL94V-2 Nylon, Natural Color		
	A	B	C	D	Plug	Cap Panel Mount	Cap Free-Hanging	Plug	Cap Panel Mount	Cap Free-Hanging
1	—	—	—	—	172164-1	—	172156-1	172335-1	—	172327-1
2	.386 9.80	.425 10.79	.488 12.39	.464 11.78	172165-1	172157-1	172233-1	172336-1	172328-1	172343-1
3	.551 14.00	.591 15.01	.654 16.61	.630 16.00	172166-1	172158-1	172234-1	172337-1	172329-1	172344-1

Note: All part numbers are RoHS Compliant.

4 and 6 Circuit, Dual Row



Number of Circuits	A Dim.	Housing Part Numbers ¹			
		UL94V-0 Nylon, White Color		UL94V-2 Nylon, Natural Color	
		Plug	Cap	Plug	Cap
4	.386 9.80	172167-1	172159-1	172338-1	172330-1
6	.551 14.00	172168-1	172160-1	172339-1	172331-1

¹Housing part numbers shown in both charts (above) are also available in other colors: Red, Green, Blue, Black. To order connectors in these colors use the appropriate dash numbers as follows: Red 1-XXXXXX-2, Green 1-XXXXXX-5, Blue 1-XXXXXX-6, Black 1-XXXXXX-9

Note: All part numbers are RoHS Compliant.

Mini-Universal MATE-N-LOK Connectors (Continued)

Housings

.163 [4.14] Centerline spacing

Related Product Data

Product Specifications

- 108-1542 Mini-Universal MATE-N-LOK Connectors
- 108-1543 Mini-Universal MATE-N-LOK Headers
- 108-5151 Mini-Universal MATE-N-LOK Connectors (UL94V-2)
- 108-5138 Mini-Universal MATE-N-LOK Connectors (UL94V-0)

Performance Characteristics—
pages 83-84

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Keying Plug — page 86

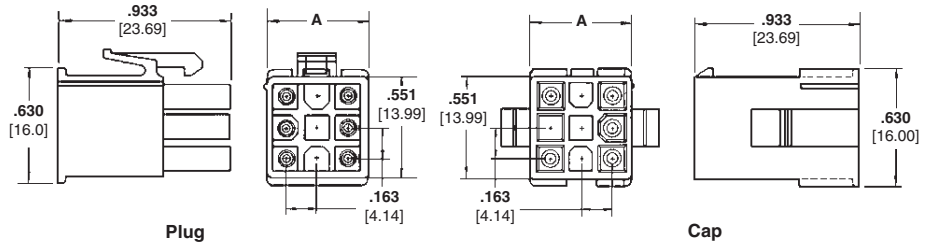
Test Probe Contact — page 86

Panel Cutout Recommendations—
page 89

Technical Documents—pages 83
and 205-206

Mating Headers — pages 90-92

**9, 12 and 15 Circuit,
Free-Hanging or Panel Mount, Matrix**

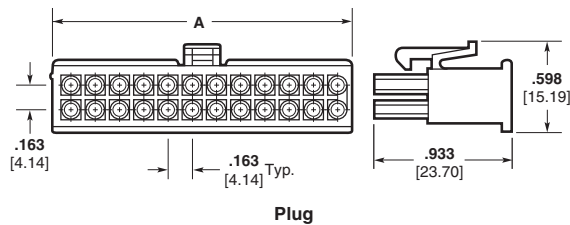


Number of Circuits	A Dim.	Housing Part Numbers ¹			
		UL94V-0 Nylon, White Color		UL94V-2 Nylon, Natural Color	
		Plug	Cap	Plug	Cap
9	.551 13.99	172169-1	172161-1	172340-1	172332-1
12	.716 18.19	172170-1	172162-1	172341-1	172333-1
15	.882 22.40	172171-1	172163-1	172342-1	172334-1

¹Housing part numbers shown in chart are also available in other colors: Red, Green, Blue, Black. To order connectors in these colors use the appropriate dash numbers as follows: Red 1-XXXXXX-2, Green 1-XXXXXX-5, Blue 1-XXXXXX-6, Black 1-XXXXXX-9

Note: All part numbers are RoHS Compliant.

**8 thru 24 Circuit,
Free-Hanging, Dual Row**



Number of Circuits	A Dim.	Part Number UL94V-0 Nylon, White Color Plug
8	.714 18.14	770579-1
10	.877 22.28	770580-1
12	1.040 26.42	770581-1
14	1.203 30.56	770582-1
16	1.366 34.70	770583-1
18	1.529 38.84	770584-1
20	1.692 42.98	770585-1
22	1.855 47.12	770586-1
24	2.018 51.26	770587-1

Note: All part numbers are RoHS Compliant.

Mini-Universal MATE-N-LOK Connectors .163 [4.14] Centerline
High Density

Mini-Universal MATE-N-LOK Connectors (Continued)

**Housings
Hermaphroditic
Free-Hanging**

2, 3 and 4 Circuit

Related Product Data

Product Specifications

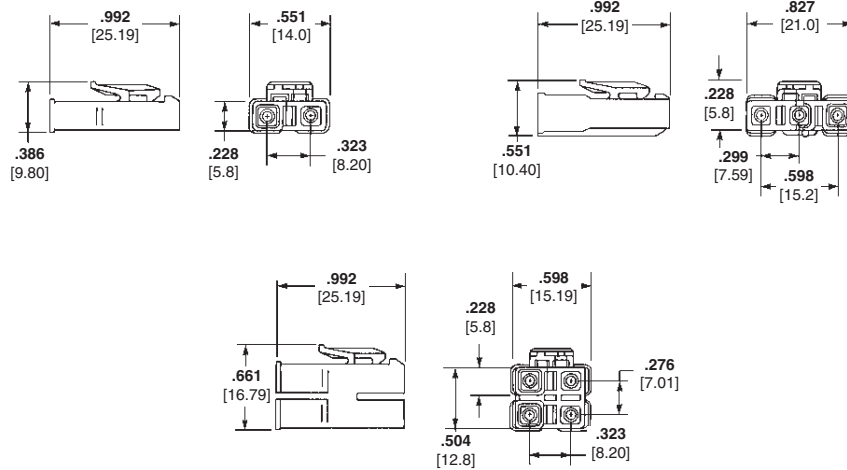
- 108-1542 Mini-Universal MATE-N-LOK Connectors
- 108-1543 Mini-Universal MATE-N-LOK Headers
- 108-5151 Mini-Universal MATE-N-LOK Connectors (UL94V-2)
- 108-5138 Mini-Universal MATE-N-LOK Connectors (UL94V-0)

Performance Characteristics—
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Cap Housings — pages 87-89

Technical Documents—pages 83
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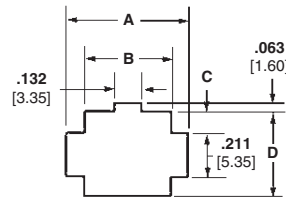
Number of Circuits	Part Numbers	
	UL94V-2 Nylon, Natural Color	UL94V-0 Nylon, White Color
2	172807-1	173956-1
3	172808-1	173957-1
4	172809-1	173958-1

Note: Housing mates to itself; 2 required per wire-to-wire connection.

Note: All part numbers are RoHS Compliant.

**Recommended Cap
Housing Panel Cutouts**

View is from cap entry side
Recommended Panel
Thickness .031—.079 [1.79 – 2.01]



Number of Circuits	Dimensions			
	A	B	C	D
2	.421 10.69	.242 6.15	.098 2.49	.407 10.3
3	.421 10.69	.242 6.15	.181 4.60	.573 14.55
4	.587 14.91	.407 10.34	.098 2.49	.407 10.3
6	.752 19.10	.573 14.55	.098 2.49	.407 10.3
9	.752 19.10	.573 14.55	.181 4.60	.573 14.55
12	.917 23.29	.738 18.75	.181 4.60	.573 14.55
15	1.080 27.43	.904 22.96	.181 4.60	.573 14.55

Mini-Universal MATE-N-LOK Connectors (Continued)

Vertical PC Board Pin Headers

.163 [4.14] Centerline spacing

Material

Housing—Nylon, white

Flammability Rating—UL94V-0

Contacts—Brass

Solder tail diameter .039 [1.00]

Related Product Data

Product Specifications

108-1542 Mini-Universal MATE-N-LOK Connectors

108-1543 Mini-Universal MATE-N-LOK Headers

108-5151 Mini-Universal MATE-N-LOK Connectors (UL94V-2)

108-5138 Mini-Universal MATE-N-LOK Connectors (UL94V-0)

Performance Characteristics—pages 83-84

Recommended PC Board Hole Layouts—page 93

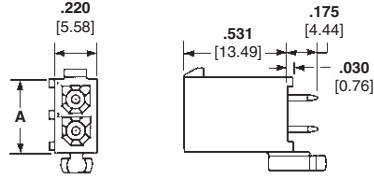
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Mating Connectors

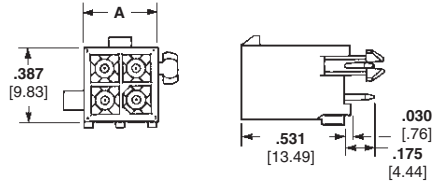
Mini-Universal MATE-N-LOK
Plug Housings—pages 87-89

Mini-Universal MATE-N-LOK 2
Plug Housings—pages 101-102

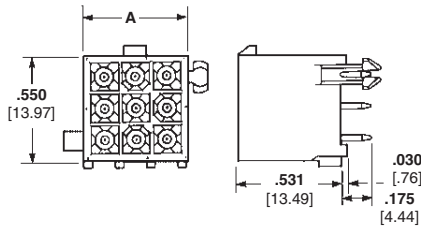
2 and 3 Circuit, In-Line



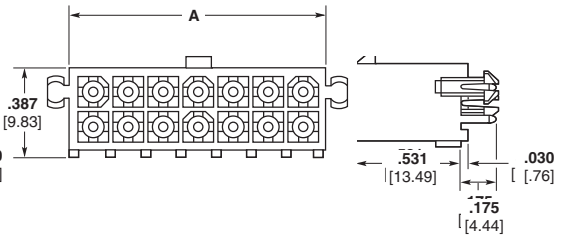
4, 6, 8, 10 and 12 Circuit, Dual Row



9, 12 and 15 Circuit, Matrix



14, 16, 18, 20, 22 and 24 Circuit, Dual Row



Number of Circuits	Style	A Dim.	Pin Finish	Vertical Pin Header Part Numbers		Mates with Plug Housing Part Number (Using Socket Contact)	
				With Drain Holes	Without Drain Holes	Mini-Universal MATE-N-LOK	Mini-Universal MATE-N-LOK 2
2	In-Line	.387 9.83	Tin ¹	1-770166-0	1-770872-0	172165-1	794184-1
			Duplex ²	1-770166-1	1-770872-1		
3	In-Line	.550 13.97	Tin ¹	1-770170-0	1-770873-0	172166-1	794186-1
			Duplex ²	1-770170-1	1-770873-1		
4	Dual Row	.387 9.83	Tin ¹	1-770174-0	1-770874-0	172167-1	794188-1
			Duplex ²	1-770174-1	1-770874-1		
6	Dual Row	.550 13.97	Tin ¹	1-770178-0	1-770875-0	172168-1	794190-1
			Duplex ²	1-770178-1	1-770875-1		
8	Dual Row	.713 18.11	Tin ¹	1-794065-0	1-794073-0	770579-1	794192-1
			Duplex ²	1-794065-1	1-794073-1		
9	Matrix	.551 14.00	Tin ¹	1-770182-0	1-770876-0	172169-1	794194-1
			Duplex ²	1-770182-1	1-770876-1		
10	Dual Row	.877 22.28	Tin ¹	1-770743-0	1-770858-0	770580-1	794196-1
			Duplex ²	1-770743-1	1-770858-1		
12	Dual Row	1.039 26.39	Tin ¹	1-794066-0	1-770621-0	770581-1	794198-1
			Duplex ²	1-794066-1	1-770621-1		
12	Matrix	.713 18.11	Tin ¹	1-770186-0	1-794040-0	172170-1	794200-1
			Duplex ²	1-770186-1	1-794040-1		
14	Dual Row	1.202 30.53	Tin ¹	1-794067-0	1-794074-0	770582-1	794202-1
			Duplex ²	1-794067-1	1-794074-1		
15	Matrix	.877 22.28	Tin ¹	1-770190-0	1-770859-0	172171-1	794204-1
			Duplex ²	1-770190-1	1-770859-1		
16	Dual Row	1.365 34.67	Tin ¹	1-794068-0	1-794075-0	770583-1	794206-1
			Duplex ²	1-794068-1	1-794075-1		
18	Dual Row	1.528 38.81	Tin ¹	1-794069-0	1-794076-0	770584-1	794208-1
			Duplex ²	1-794069-1	1-794076-1		
20	Dual Row	1.691 42.95	Tin ¹	1-794070-0	1-794077-0	770585-1	794210-1
			Duplex ²	1-794070-1	1-794077-1		
22	Dual Row	1.854 47.09	Tin ¹	1-794071-0	1-794078-0	770586-1	794212-1
			Duplex ²	1-794071-1	1-794078-1		
24	Dual Row	2.017 51.23	Tin ¹	1-794072-0	1-794079-0	770587-1	794214-1
			Duplex ²	1-794072-1	1-794079-1		

¹ Tin Finish—Plated with .000150 [.00381] min. tin over .000050 [.00127] min. nickel underplate on entire contact.
² Duplex Finish—Plated with .000030 [.000762] min. gold in mating area and matte tin on solder tail end over .000050 [.00127] min. nickel underplate on entire contact.

Note: All part numbers are RoHS Compliant.

High Density

Mini-Universal MATE-N-LOK Connectors .163 [4.14] Centerline

Mini-Universal MATE-N-LOK Connectors (Continued)

**Vertical PC Board
Blindmate Pin Headers**

.163 [4.14] Centerline spacing

Material

Housing—Nylon, white

Flammability Rating—UL94V-0

Contacts—Brass

Solder tail diameter .039 [1.00]

Related Product Data

Product Specifications

108-1693 Mini-Universal MATE-N-LOK 2
Connectors

108-1694 Mini-Universal MATE-N-LOK 2
Headers

Performance Characteristics—
pages 83-84

**Recommended PC Board Hole
Layouts**—page 93

Technical Documents—pages 83
and 205-206

Mating Connectors

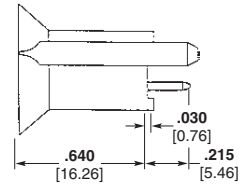
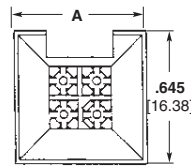
Mini-Universal MATE-N-LOK

Plug Housings — pages 87-89

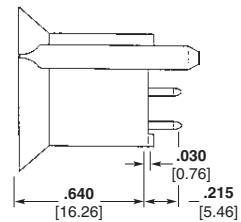
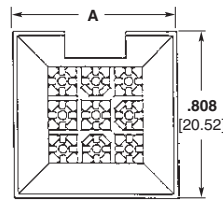
Mini-Universal MATE-N-LOK 2

Plug Housings — pages 101-102

**4, 6, 8 and 10 Circuit,
Dual Row**



**9, 12 and 15 Circuit,
Matrix**



Number of Circuits	Style	A Dim.	Pin Finish	Pin Header Part Numbers With Drain Holes	Mates with Plug Housing Part Number (Using Socket Contacts)	
					Mini-Universal MATE-N-LOK	Mini-Universal MATE-N-LOK 2
4	Dual Row	.645 16.38	Tin ¹	1-794325-0	172167-1	794188-1
			Duplex ²	1-794325-1		
6	Dual Row	.808 20.52	Tin ¹	1-794326-0	172168-1	794190-1
			Duplex ²	1-794326-1		
8	Dual Row	.971 24.66	Tin ¹	1-794327-0	770579-1	794192-1
			Duplex ²	1-794327-1		
9	Matrix	.808 20.52	Tin ¹	1-794432-0	172169-1	794194-1
			Duplex ²	1-794432-1		
10	Dual Row	1.134 28.80	Tin ¹	1-794328-0	770580-1	794196-1
			Duplex ²	1-794328-1		
12	Matrix	.971 24.66	Tin ¹	1-794329-0	172170-1	794200-1
			Duplex ²	1-794329-1		
15	Matrix	1.134 28.80	Tin ¹	1-794330-0	172171-1	794204-1
			Duplex ²	1-794330-1		

¹ Tin Finish — Plated with .000150 [.00381] min. tin over .000050 [.00127] min. nickel underplate on entire contact.

² Duplex Finish — Plated with .000030 [.000762] min. gold in mating area and matte tin on solder tail end over .000050 [.00127] min. nickel underplate on entire contact.

Note: All part numbers are RoHS Compliant.

High Density

Mini-Universal MATE-N-LOK Connectors
.163 [4.14] Centerline

Mini-Universal MATE-N-LOK Connectors (Continued)

**Right-Angle PC Board
Pin Headers**

.163 [4.14] Centerline spacing

Material

Housing—Nylon, white color

Flammability Rating—UL94V-0

Contacts—Brass

Solder tail diameter .039 [1.00]

Related Product Data

Product Specification

108-1694 Mini-Universal
MATE-N-LOK 2 Headers

Performance Characteristics—
pages 83-84

**Recommended PC Board Hole
Layouts**—page 93

Technical Documents—pages 83
and 205-206

Mating Connectors

Mini-Universal MATE-N-LOK

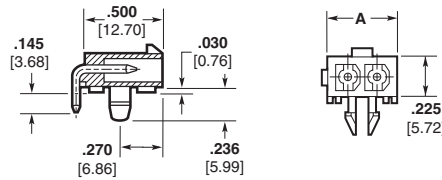
Plug Housings—pages 87-89

Mini-Universal MATE-N-LOK 2

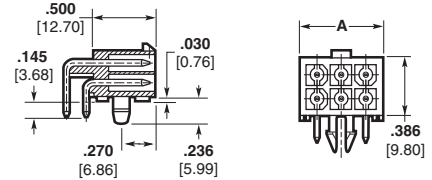
Plug Housings—pages 101-102

With Board Lock Feature

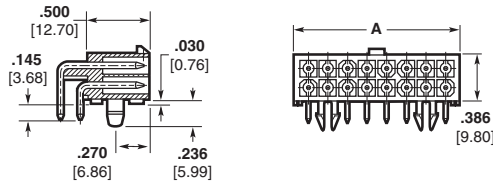
1, 2 and 3 Circuit, In-Line



4, 6, 8, 10 and 12 Circuit, Dual Row



14, 16, 18, 20, 22 and 24 Circuit, Dual Row



Number of Circuits	Style	A Dim.	Pin Finish	Pin Header Part Number With Board Lock	Mates with Plug Housing Part Number (Using Socket Contacts)	
					Mini-Universal MATE-N-LOK	Mini-Universal MATE-N-LOK 2
1	—	.225 5.72	Tin ¹	1-794374-0	172164-1	—
			Duplex ²	1-794374-1		
2	In-Line	.388 9.86	Tin ¹	1-770966-0	172165-1	794184-1
			Duplex ²	1-770966-1		
3	In-Line	.551 14.00	Tin ¹	1-770967-0	172166-1	794186-1
			Duplex ²	1-770967-1		
4	Dual Row	.388 9.86	Tin ¹	1-770968-0	172167-1	794188-1
			Duplex ²	1-770968-1		
6	Dual Row	.551 14.00	Tin ¹	1-770969-0	172168-1	794190-1
			Duplex ²	1-770969-1		
8	Dual Row	.714 18.14	Tin ¹	1-770970-0	770579-1	794192-1
			Duplex ²	1-770970-1		
10	Dual Row	.877 22.28	Tin ¹	1-770971-0	770580-1	794196-1
			Duplex ²	1-770971-1		
12	Dual Row	1.040 26.42	Tin ¹	1-770972-0	770581-1	794198-1
			Duplex ²	1-770972-1		
14	Dual Row	1.203 30.56	Tin ¹	1-770973-0	770582-1	794202-1
			Duplex ²	1-770973-1		
16	Dual Row	1.366 34.70	Tin ¹	1-770974-0	770583-1	794206-1
			Duplex ²	1-770974-1		
18	Dual Row	1.529 38.84	Tin ¹	1-794105-0	770584-1	794208-1
			Duplex ²	1-794105-1		
20	Dual Row	1.692 42.98	Tin ¹	1-794106-0	770585-1	794210-1
			Duplex ²	1-794106-1		
22	Dual Row	1.855 47.12	Tin ¹	1-794107-0	770586-1	794212-1
			Duplex ²	1-794107-1		
24	Dual Row	2.018 51.26	Tin ¹	1-794108-0	770587-1	794214-1
			Duplex ²	1-794108-1		

¹Tin Finish—Plated with .000150 [.00381] min. tin over .000050 [.00127] min. nickel underplate on entire contact.

²Duplex Finish—Plated with .000030 [.000762] min. gold in mating area and matte tin on solder tail end over .000050 [.00127] min. nickel underplate on entire contact.

Note: All part numbers are RoHS Compliant.

High Density

Mini-Universal MATE-N-LOK Connectors
.163 [4.14] Centerline

Mini-Universal MATE-N-LOK Connectors (Continued)

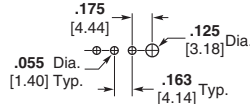
**Recommended PC Board
Hole Layouts for Vertical
and Blindmate Headers**

.062 [1.57] thick board, tolerances
non-accumulative

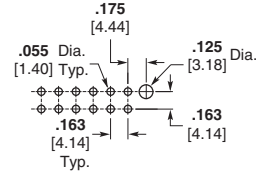
Related Product Data

Vertical Headers—pages 90-91

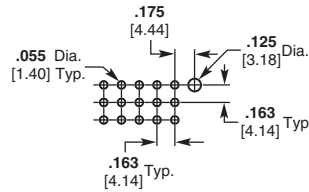
2 and 3 Circuit, In-Line



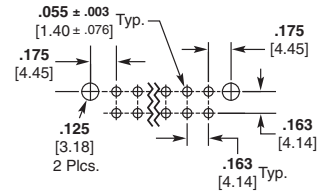
4, 6, 8, 10 and 12 Circuit, Dual Row



9, 12 and 15 Circuit, Matrix



14, 16, 18, 20, 22 and 24 Circuit, Dual Row



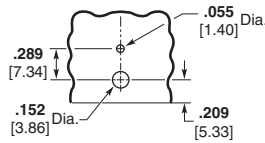
**Recommended PC Board
Hole Layouts for Right-
Angle Headers**

.062 [1.57] thick board, tolerances
non-accumulative

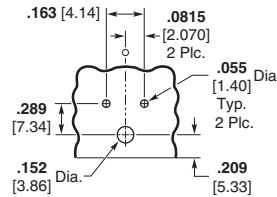
Related Product Data

Right-Angle Headers—page 92

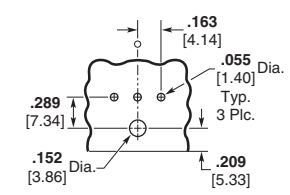
1 Circuit



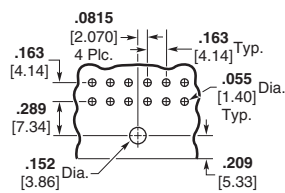
2 Circuit, In-Line



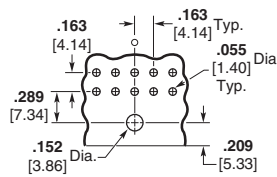
3 Circuit, In-Line



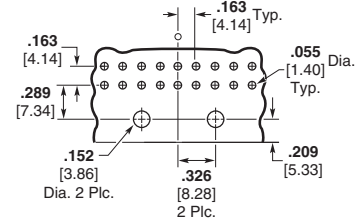
4, 8 and 12 Circuit, Dual Row



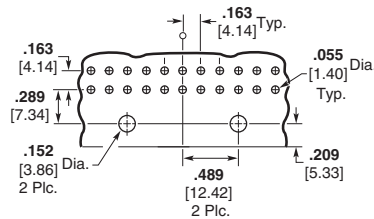
6 and 10 Circuit, Dual Row



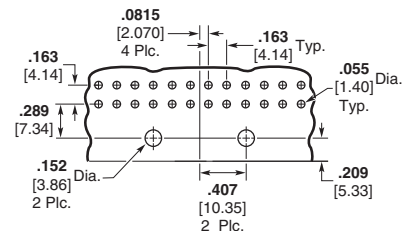
14 and 18 Circuit, Dual Row



22 Circuit, Dual Row



16, 20 and 24 Circuit, Dual Row



High Density

Mini-Universal MATE-N-LOK Connectors
.163 [4.14] Centerline

Mini-Universal MATE-N-LOK Connectors (Continued)

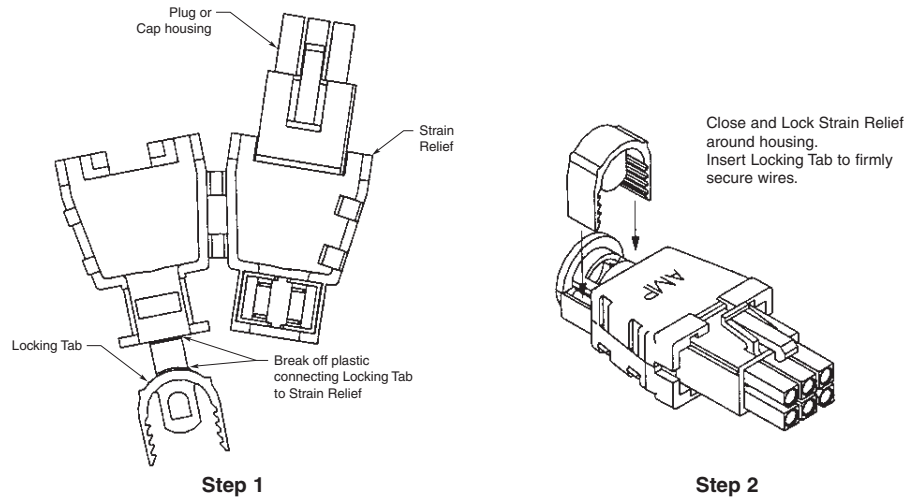
Strain Reliefs for Plug or Cap Housings

Related Product Data

Housings—pages 87-89
Technical Documents—pages 83 and 205-206

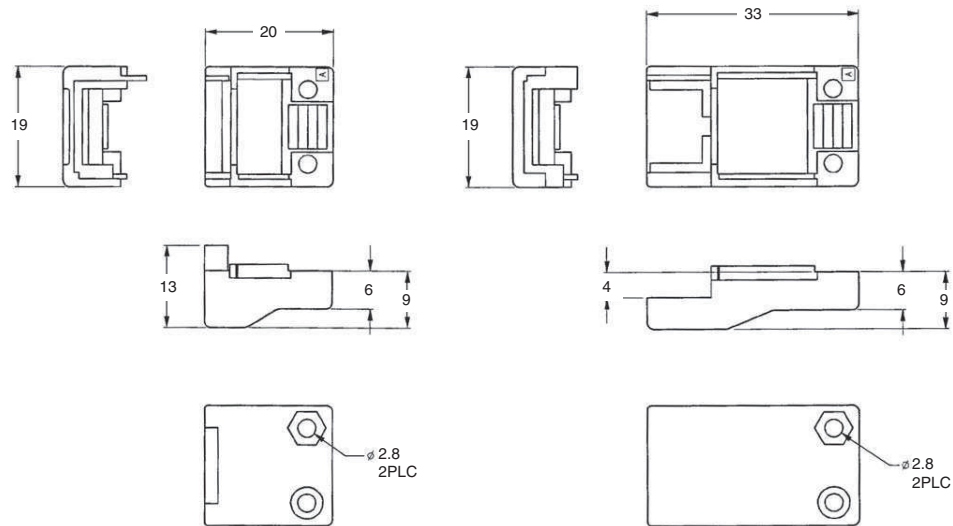
These Strain Reliefs may also be used with AMP-DUAC Receptacle housings on page 126.

6 and 8 Circuit



Style	Number of Circuits	A Dim.	Wire Bundle Dia. Range	Part Numbers	
				UL94V-0 Nylon, White Color	Use With
Dual Row	6	.920 23.36	.165-.220 4.19-5.59	794423-1	172168-1 172160-1 172339-1 172331-1
	8	.920 23.36	.180-.245 4.57-6.22	794370-1	770979-1

9 Circuit



Style	Number of Circuits	Part Numbers		
		Part Number	Use With	
Matrix	9	Plug	316454-1	172169-1 172340-1
		Cap	316455-1	172161-1 172332-1

Note: All part numbers are RoHS Compliant.

High Density
Mini-Universal MATE-N-LOK Connectors
.163 [4.14] Centerline