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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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Hazardous Substances
(RoHS)**

At Tyco Electronics, we're ready to support your RoHS requirements. We've assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted materials.

Part numbers in this catalog are RoHS Compliant, unless marked otherwise. These products comply with European Union Directive 2002/95/EC, as amended 1 January 2006, that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

Note: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories. Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced at right.

**Getting the Information
You Need**

Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week. The Support Center also provides:

- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog
- Downloadable Technical Data
- Customer Information Presentation
- More detailed information regarding the definitions used above

So whatever your questions when it comes to RoHS, we have the answers at www.tycoelectronics.com/leadfree

RoHS
Customer
Support
Center 

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Introduction

AMP Soft Shell Pin and Socket Connectors provide a highly reliable and economic means of grouping multiple-lead connections in today's computer, computer/peripheral equipment, business machines, entertainment centers, appliances and other sophisticated commercial equipment. The electrical connector is an integral component in these applications. They also offer worldwide application approval because of their reliability and economy. Electrical functions have increased in complexity and new designs continually call for the maximum use of space. The Soft Shell Pin and Socket family of connectors offers the design and features to answer these modern industry requirements.

This catalog is organized by contact centerline spacing (High Density and Standard Density) to provide you with the basic information necessary to select the Soft Shell connector system best suited for your specific application. It contains general information to acquaint you with the complete family of connectors and application tooling.

Since your specific application will determine the degree of automatic, semiautomatic or manual application tooling required, complete specifications are covered on pages 207-204.

Summary Chart

Page No.	Product Name	No. of Positions	Centerline (in) mm	Wire Size (AWG)	Wire Insulation Dia. Max. (in) mm	Current Rating Max (A)*	Voltage Rating Max.	Operating Temp. Range (C)	UL94 Flammability Rating	Sealed Version Available	Approvals
High Density											
9	2.5 mm Signal Double Lock (SDL)	2-13	(.098) 2.50	26-20	(.071) 1.80	3	50 VAC or VDC	-30° to +105°	V-0	No	UL, CSA, VDE
17	Micro MATE-N-LOK 3 mm	2-24	(.118) 3.00	30-20	(.060) 1.52	5	250 VAC	-40° to +105°	V-0	No	UL, CSA, VDE
49	Grace Inertia Connectors (GIC) 3.5	2-6	(.137) 3.50	26-18	(.106) 2.70	7	300 VAC	-30° to +105°	V-0	No	UL, CSA
53	.062 Commercial Pin & Socket	1-9	(.145) 3.68	30-18	(.110) 2.79	7	250 VAC or VDC	-55° to +105°	V-2	No	UL, CSA
59	Power Double Lock (PDL)	1-12 3-12 2 2	(.156) 3.96 (.256) 6.50 (.312) 7.92 (.512) 13.00	26-16	(.122) 3.10	14	300 VAC (3.96 WTW, 6.5 WTB and 7.92 WTB) 50 VAC (3.96 WTB)	-30° to +105°	V-0	No	UL, CSA, VDE
83	Mini-Universal MATE-N-LOK	1-24	(.163) 4.14	30-16	(.126) 3.20	9.5	600 VAC or VDC	-55° to +105°	V-0 & V-2	Yes	UL, CSA, VDE (250 V Max.)
99	Mini-Universal MATE-N-LOK 2	2-24	(.163) 4.14	30-16	(.126) 3.20	10.5	600 VAC or VDC	-55° to +105°	V-0 & V-2	No	UL, CSA, VDE
109	MR (Miniature Rectangular)	2-36	(.165) 4.20	26-18	(.115) 2.92	9	250 VAC	-55° to +85°	V-0	No	UL, CSA
119	VAL-U-LOK Connector System	2-24	(.165) 4.20	26-18	(.094) 2.39	9	600 VAC	-40° to +105°	V-0 & V-2	No	UL, CSA
125	AMP-DUAC	2-24	(.165) 4.20	26-18	(.130) 3.30	9	600 VAC	-55° to +105°	V-2	No	UL, CSA
Standard Density											
135	5.0 mm Power Key Connectors (PKC)	2-6	(.197) 5.00	24-16	(.122) 3.10	10	300 VAC	-30° to +105°	V-0	No	UL, CSA
143	.093 Commercial Pin & Socket	1-15	(.198) 5.03	14-24	(.180) 4.57	13	250 VAC or VDC	-55° to +105°	V-2	No	UL, CSA
151	Commercial MATE-N-LOK	1-16	(.200) 5.08	30-14	(.130) 3.30	19	250 VAC	-55° to +105°	V-2	No	UL, CSA
165	.140 MATE-N-LOK	2-9	(.240) 6.10	20-10	(.180) 4.57	28	600 VAC or VDC	-55° to +105°	V-2	No	UL, CSA
169	Universal MATE-N-LOK	1-15	(.250) 6.35	30-10	(.200) 5.08	19	600 VAC or VDC	-55° to +105°**	V-0 & V-2	Yes	UL, CSA; designed and tested to meet VDE 380 V requirements, except 6 Position Circular
189	Universal MATE-N-LOK II	2-15	(.250) 6.35	30-10	(.200) 5.08	19	600 VAC or VDC	-55° to +105°	V-0	No	UL, CSA, VDE
203	.156 MATE-N-LOK	3-4	(.390) 9.91	20-10	(.185) 4.70	32.5	600 VAC	-55° to +105°	V-2	No	UL

*Current Rating is application dependent

** 125°C Available

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High Density

Need more information?

Call Technical Support at a local number listed on the inside back cover.

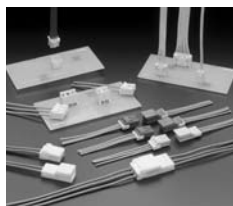
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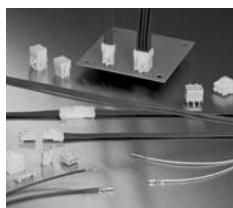
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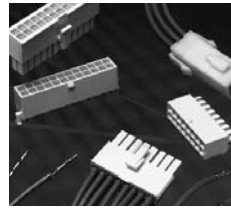
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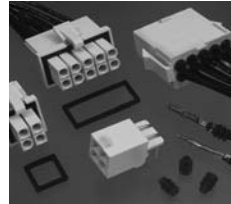
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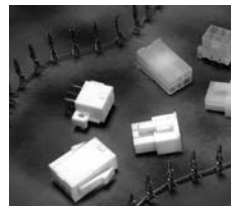
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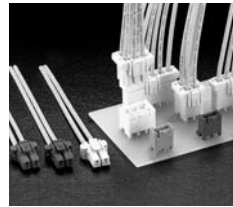
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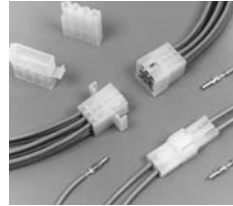
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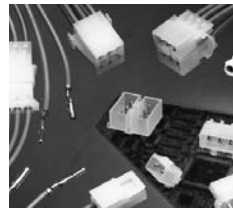
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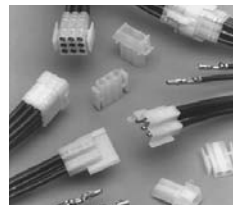
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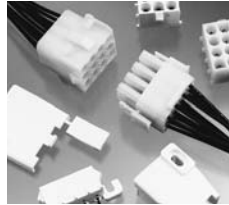
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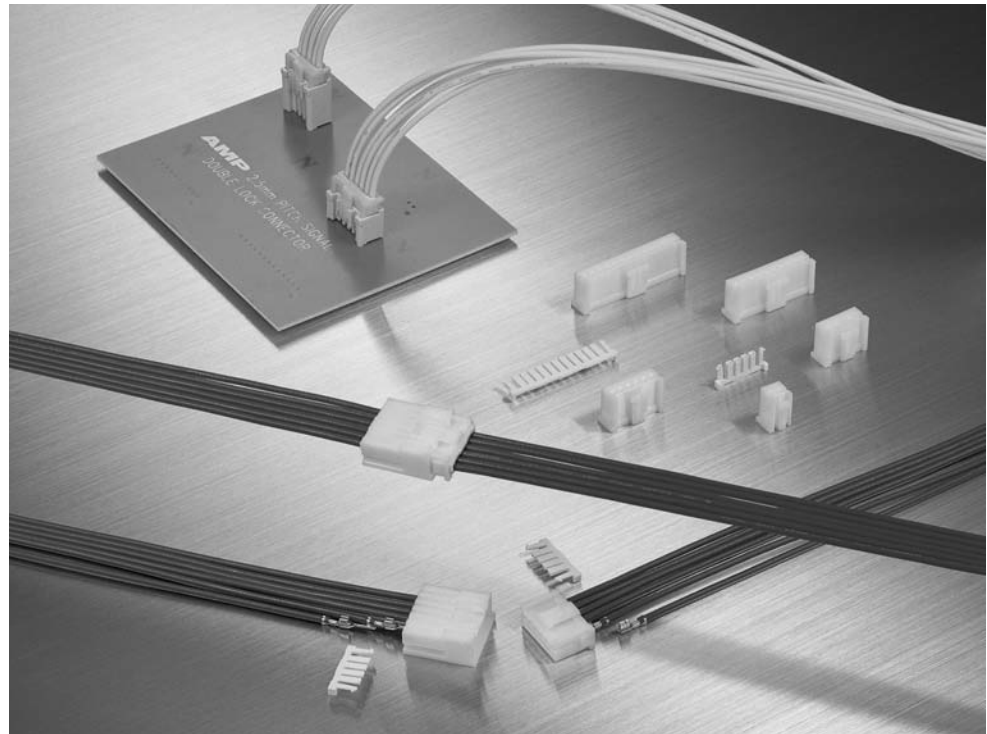
Engineering Notes



2.5 mm Signal Double Lock (2.5 SDL) Connectors (Wire-to-Board and Wire-to-Wire)

Product Facts

- Connector for signal circuits with one row of contacts on 2.5 mm centerline
- Wire-to-board and wire-to-wire connectors, consisting of plug and cap housings for wire termination and PC board-mount post headers
- Mounted to plug and cap housings for wire application, double lock plate provides for positive loading of contacts in the housing. It also helps contacts mate completely
- Double lock plate is contained within the plug and cap housing completely, which provides neat overall appearance
- Accepts 26-20 AWG wire (e.g. UL 1007, 1061, 1571, etc.) with insulation diameters of up to 1.8 mm
- PC board-mount post header is available in two styles: standard profile and high profile
- High-profile post header has locking feature at location fit to resin coating, which is applied onto the board for waterproof protection as in home appliances. It does not hamper mating and locking of post header with plug housing
- Locking structure is inner-lock type and has a clean surface
- Solder tail section of post header is provided with kinks to retain the header firmly on PC board during soldering
- Radial tape-mounted version of post header is also available that is applicable to radial mounting machines
- Recognized under the Component Program  of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association,  File No. LR7189
- VDE Approved, File No.  B 04 11 39175013



2.5 mm Signal Double Lock Connectors (2.5 SDL) are 2.5 mm centerline, compact, one-row connectors for signal circuits.

With contacts on 2.5 mm centerline, both wire-to-wire and wire-to-board connectors are available.

The connectors consist of plug and cap housings for wire termination, double lock plates for plug and cap housings, crimp snap-in contacts, and a PC board-mount post header. A double lock plate is available for both plug and wire-to-wire cap housing to provide for positive loading. It helps prevent contacts from coming off or mating halfway. The plate is contained within the plug and cap housing completely. The plug and cap housing can be used without a double lock plate.

The connector accepts 26-20 AWG wire (e.g. UL 1007, 1061, 1571, etc.) with insu-

lation diameters of up to 1.8 mm.

The PC board-mount post header is available in two styles: standard profile and high profile.

The high-profile type connectors can be used for home appliances, which require waterproof protection. It does not hamper mating and locking of the post header with the plug housing, even if the board has resin coating on it.

The locking structure is inner-lock type and has a clean surface.

The solder tail of the loose-piece post header has kinks to secure the connector on the PC board until it is soldered.

Radial tape-mounted version of post header is also available and this is applicable to radial mounting machines.

Performance Characteristics

Voltage Rating—50 VAC/DC

Current Rating—3 A

Overall Resistance—
10 mΩ max. (initial)
20 mΩ max. (final)

Insulation Resistance—
500 Ω (500 VDC)

Dielectric Withstanding Voltage—
1,100 VAC, one minute

Contact Resistance—20 mΩ max.

Operating Temperature—
-30° ~ +105°C
(The upper limit includes temperature rise from power carrying)

Applicable Wire—26-20 AWG (UL 1007, 1061, 1571)

Wire Insulation Range—
0.93~1.8 mm

PC Board Thickness—1.6 mm

Technical Documents

Product Specification

108-5459

Application Specification

114-5203

Note: Dimensions shown are metric.

2.5 mm Signal Double Lock (2.5 SDL) Connectors
(Wire-to-Board and Wire-to-Wire) (Continued)

Quick Reference Chart for Mating Part Numbers

No. of Pos.	Plug Connector Part No. (Wire Side)		Mating Connectors (PC Board Mount & Wire Side)			
	Housing	Double Lock Plate	Post Header Part No.		Cap Connector Part No.	
			Standard-Profile Type*	High-Profile Type	Cap Housing	Double Lock Plate
2	917686-1	917698-1	917780-1	917722-1	316086-1	917698-1
3	917687-1	917699-1	917781-1	917723-1	316087-1	917699-1
4	917688-1	917700-1	917782-1	917724-1	316088-1	917700-1
5	917689-1	917701-1	917783-1	917725-1	316089-1	917701-1
6	917690-1	917702-1	917784-1	917726-1	316090-1	917702-1
7	917691-1	917703-1	917785-1	917727-1	316091-1	917703-1
8	917692-1	917704-1	917786-1	917728-1	316092-1	917704-1
9	917693-1	917705-1	917787-1	917729-1	—	917705-1
10	917694-1	917706-1	917788-1	917730-1	316094-1	917706-1
11	917695-1	917707-1	917789-1	917731-1	—	917707-1
12	917696-1	917708-1	917790-1	917732-1	—	917708-1
13	917697-1	917709-1	917791-1	917733-1	—	917709-1

*Included in Standard-Profile Post Header line are Radial Tape-Mounted version (2 to 8 positions).
Refer to appropriate description in the catalog.

Note: All part numbers are RoHS Compliant.

Product Family List (Including Production Plans)

Description	Number of Positions												
	2	3	4	5	6	7	8	9	10	11	12	13	
Plug Housing	●	●	●	●	●	●	●	●	●	●	●	●	
Vertical Board Mount Post Header	Standard-Profile Type		Loose Piece										
	High-Profile Type		Radial Tape-Mounted										
Cap Housing	Standard-Profile Type		Loose Piece										
	High-Profile Type		Radial Tape-Mounted										
Double Lock Plate	●	●	●	●	●	●	●	●	●	●	●	●	
Horizontal Board Mount Post Header	○	○	○	○	○	○	○	○	○	○	○	○	
Horizontal Mount Post Header (Radial Tape-Mounted)	○	○	○	○	○	○	○	—	—	—	—	—	

Note: ● indicates products currently available; ○ indicates products planned for production.

Note: Dimensions shown are metric.

High Density

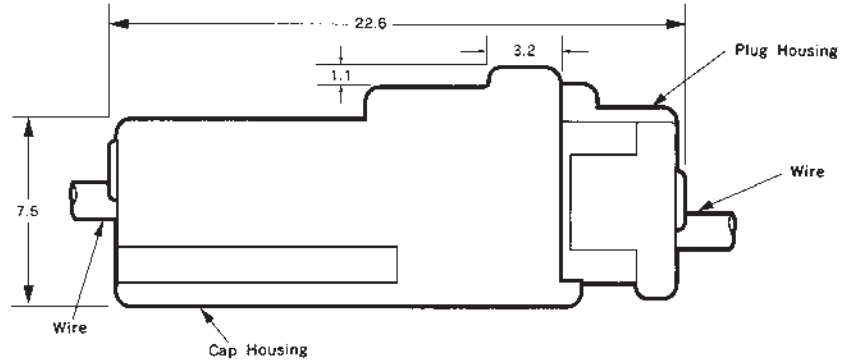
2.5 mm Signal Double Lock
.098 [2.50] Centerline

2.5 mm Signal Double Lock (2.5 SDL) Connectors
(Wire-to-Board and Wire-to-Wire) (Continued)

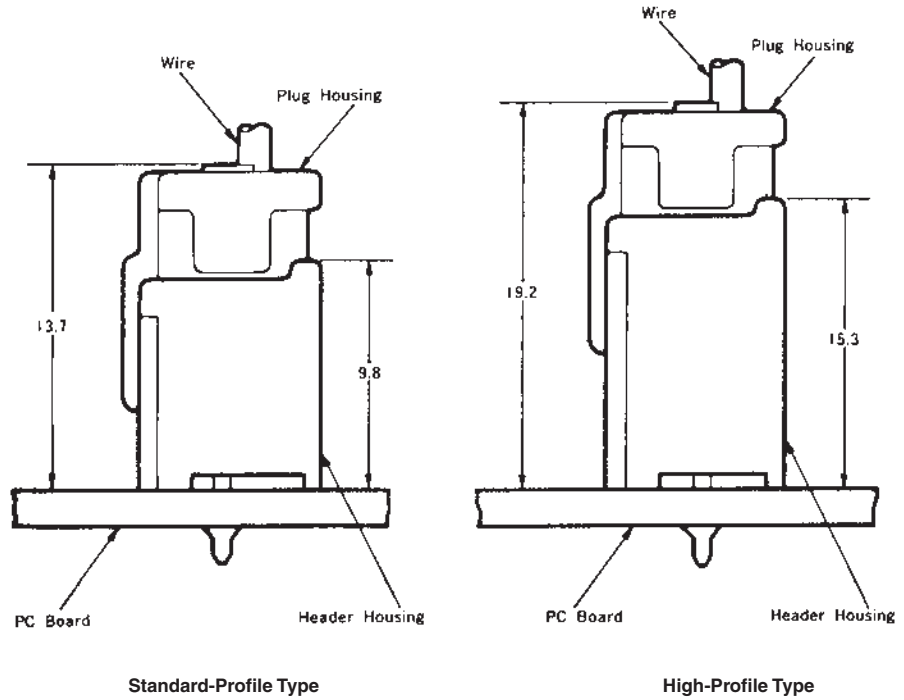
High Density
2.5 mm Signal Double Lock
.098 [2.50] Centerline

Mating Configurations

Wire-to-Wire Connections



Wire-to-PC Board Connections



Note: Dimensions shown are metric.

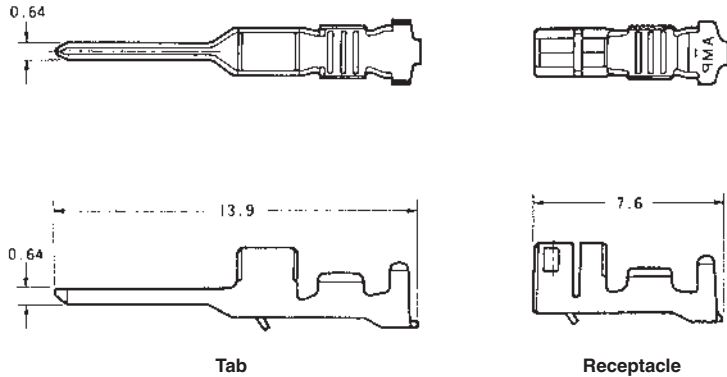
2.5 mm Signal Double Lock (2.5 SDL) Connectors (Wire-to-Board and Wire-to-Wire) (Continued)

Contacts

Material and Finish

Pre-tinned phosphor bronze
(0.2 mm thick)

Receptacle for Plug Housing,
Tab for Cap Housing



Wire Range		Wire Ins. Dia.	Contact Part Number				Applicator Part Number
AWG	mm ²		Tab		Receptacle		
			Strip Form	Loose Piece	Strip Form	Loose Piece	
26-22	0.12~0.35	0.93~1.50	917765-1	316399-1	917684-1	316401-1	*
22-20	0.30~0.53	1.40~1.80	917764-1	316398-1	917683-1	316400-1	*

Hand Tool Part No.: for 26-22 AWG = 234604-1 (Instruction Sheet 411-5736)
22-20 AWG = 234603-1 (Instruction Sheet 411-5735)

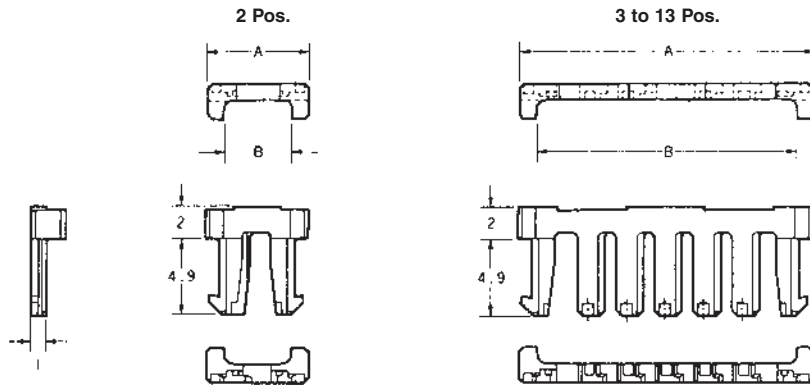
Extraction Tool Part No.: 234605-1 (Instruction Sheet 411-5737)

* Contact the Tooling Assistance Center (TAC) at 1-800-722-1111 for Applicator Part Number.

Double Lock Plates

Material

UL94V-0, 6/6 Nylon, glass filled,
natural color



No. of Pos.	Dimensions of Double Lock Plate		Double Lock Plate Part Number	Applicable Housing Part Number	
	A	B		Plug	Cap
2	06.5	04.3	917698-1	917686-1	316086-1
3	09.0	06.8	917699-1	917687-1	316087-1
4	11.5	09.3	917700-1	917688-1	316088-1
5	14.0	11.8	917701-1	917689-1	316089-1
6	16.5	14.3	917702-1	917690-1	316090-1
7	19.0	16.8	917703-1	917691-1	316091-1
8	21.5	19.3	917704-1	917692-1	316092-1
9	24.0	21.8	917705-1	917693-1	—
10	26.5	24.3	917706-1	917694-1	316094-1
11	29.0	26.8	917707-1	917695-1	—
12	31.5	29.3	917708-1	917696-1	—
13	34.0	31.8	917709-1	917697-1	—

Extraction Tool Part No. for Double Lock Plate: 234605-1 (Instruction Sheet 411-5737)

Note: All part numbers are RoHS Compliant.

Note: Dimensions shown are metric.

2.5 mm Signal Double Lock (2.5 SDL) Connectors
(Wire-to-Board and Wire-to-Wire) (Continued)

High Density
2.5 mm Signal Double Lock
.098 [2.50] Centerline

Plug Housings
(For Receptacle Contacts)

2 to 13 Positions

Material

UL94V-0, 6/6 Nylon, color (see chart)

Related Product Data

Receptacle Contact Part No.

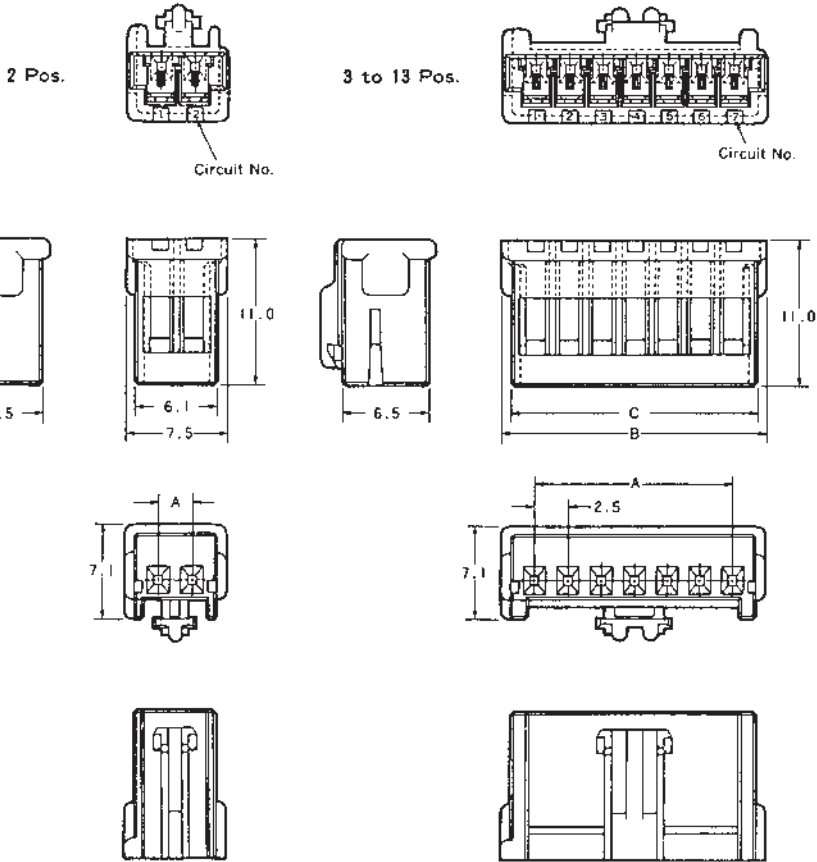
917684-1 (26-22 AWG)

917683-1 (22-20 AWG)

Double Lock Plate—page 12

Mating Cap Housings—page 14

Mating Post Headers—pages 15-16



No. of Pos.	Dimensions			Plug Housing Part Number					
	A	B	C	Natural	Red	Yellow	Green	Blue	Black
2	02.5	07.5	06.1	917686-1	917686-2	917686-4	917686-5	917686-6	917686-9
3	05.0	10.0	08.6	917687-1	917687-2	917687-4	—	917687-6	917687-9
4	07.5	12.5	11.1	917688-1	917688-2	917688-4	—	—	917688-9
5	10.0	15.0	13.6	917689-1	917689-2	—	—	917689-6	—
6	12.5	17.5	16.1	917690-1	917690-2	917690-4	—	917690-6	917690-9
7	15.0	20.0	18.6	917691-1	917691-2	917691-4	—	—	917691-9
8	17.5	22.5	21.1	917692-1	—	—	—	917692-6	—
9	20.0	25.0	23.6	917693-1	917693-2	917693-4	—	—	—
10	22.5	27.5	26.1	917694-1	—	917694-4	—	—	—
11	25.0	30.0	28.6	917695-1	—	—	—	—	—
12	27.5	32.5	31.1	917696-1	917696-2	—	—	—	—
13	30.0	35.0	33.6	917697-1	917697-2	—	—	—	—

Note: All part numbers are RoHS Compliant.

**2.5 mm Signal Double Lock (2.5 SDL) Connectors
(Wire-to-Wire)**

**Cap Housings
(For Tab Contacts)**

2 to 10 Positions

Material

UL94V-0, 6/6 Nylon, color (see chart)

Related Product Data

Tab Contact Part No.

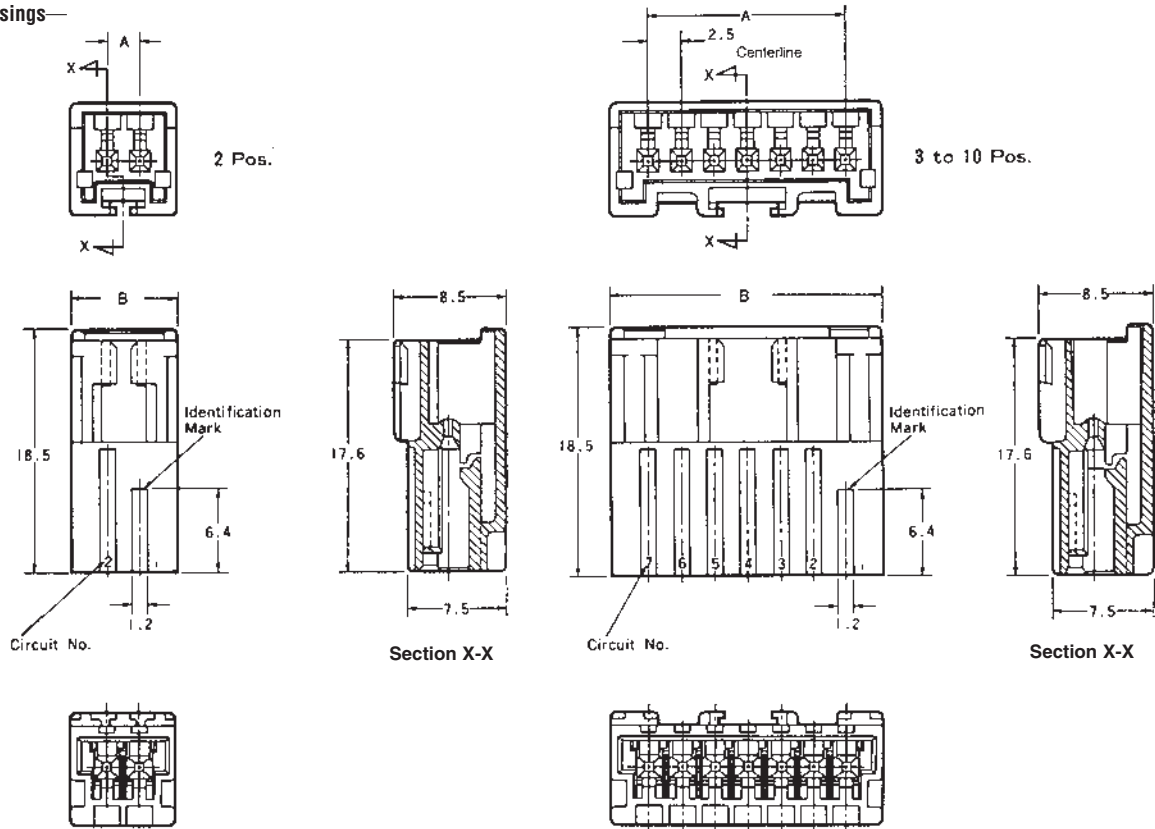
917765-1 (26-22 AWG)

917764-1 (22-20 AWG)

Double Lock Plate—page 12

Mating Plug Housings—
page 13

2.5 mm Signal Double Lock .098 [2.50] Centerline High Density



No. of Pos.	Dimensions		Cap Housing Part Number				
	A	B	Natural	Red	Yellow	Blue	Black
2	02.5	08.1	316086-1	316086-2	316086-4	316086-6	316086-9
3	05.0	10.6	316087-1	—	316087-4	—	316087-9
4	07.5	13.1	316088-1	316088-2	306088-4	—	316088-9
5	10.0	15.6	316089-1	316089-2	—	—	—
6	12.5	18.1	316090-1	—	—	—	—
7	15.0	20.6	316091-1	—	—	—	316091-9
8	17.5	23.1	316092-1	—	—	—	—
10	22.5	28.1	316094-1	—	316094-4	—	—

Note: All part numbers are RoHS Compliant.

Note: Dimensions shown are metric.

**2.5 mm Signal Double Lock (2.5 SDL) Connectors
(Wire-to-Wire) (Continued)**

High Density

2.5 mm Signal Double Lock
.098 [2.50] Centerline

**Vertical Post Headers
(For PC Board Mount)**

Standard-Profile Type

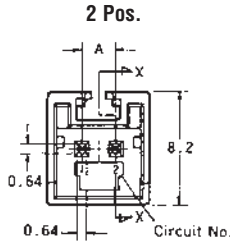
Material and Finish

Header Housings
UL94V-0, 6/6 Nylon, glass filled,
color (see chart)

Post Contact
Pre-tinned copper alloy

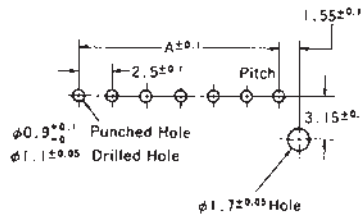
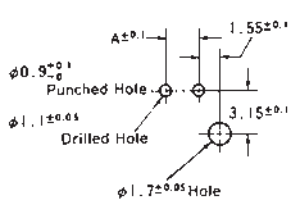
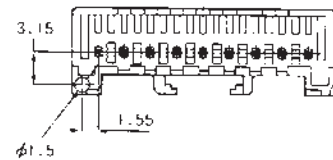
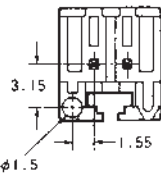
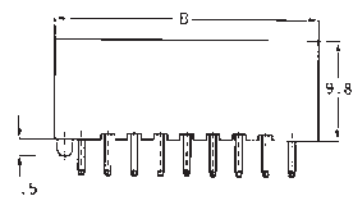
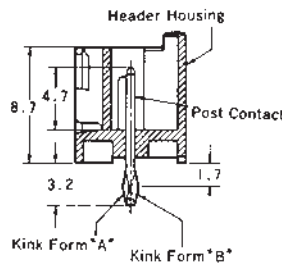
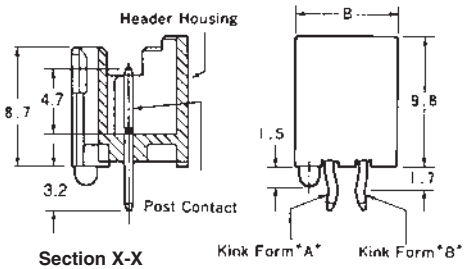
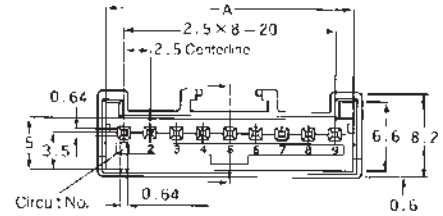
Related Product Data

Mating Plug Housings—
page 13



3 to 13 Pos.

Designs of 5 pos. to 8 pos. header housings are slightly different, please request the drawings.



No. of Pos.	Dimensions		Post Header Part Number						Radial Tape-Mounted	(Qty.)	
	A	B	Loose Piece								
			Natural	Red	Yellow	Blue	Black	Natural			Red
2	02.5	07.5	□-917780-1*1	□-917780-2*1	—	—	□-917780-9*1	□-917894-1*3	—	—	(900)
3	05.0	10.0	□-917781-1*1	□-917781-2*1	—	—	□-917781-9*1	□-917895-1*4	□-917895-2	—	(900)
4	07.5	12.5	□-917782-1*1	□-917782-2*1	□-917782-4*1	—	□-917782-9*1	□-917896-1	—	—	(450)
5	10.0	15.0	□-917783-1*1	□-917783-2*1	—	□-917783-6	—	□-917897-1	□-917897-2	—	(450)
6	12.5	17.5	□-917784-1*1	□-917784-2*1	—	—	□-917784-9*1	□-917898-1	—	—	(450)
7	15.0	20.0	□-917785-1*1	□-917785-2	□-917785-4*1	—	—	□-917899-1*5	3-917899-2*6	□-917899-4	(450)
8	17.5	22.5	□-917786-1*1	—	—	□-917786-6*	—	□-917900-1	—	—	(450)
9	20.0	25.0	□-917787-1*1	□-917787-2	—	—	—	—	—	—	
10	22.5	27.5	□-917788-1*1	—	—	—	—	—	—	—	
11	25.0	30.0	□-917789-1*1	—	—	—	—	—	—	—	
12	27.5	32.5	□-917790-1*1	□-917790-2	—	—	—	—	—	—	
13	30.0	35.0	□-917791-1*1	□-917791-2	—	—	—	—	—	—	

*1 Leave the □ blank, meaning it is with the boss. Enter 2 meaning it is without the boss.
 *2 Leave the □ blank, meaning it is with the boss and the kink. Enter 1 meaning it is without the boss and the kink. Enter 2 meaning it is with the boss and with the kink.

*3 The blue housing 917894-6 is also available.
 *4 The blue housing 917895-6 and the black housing 917895-9 are also available.
 *5 Leave the □ blank, meaning it is without the boss. Enter 3 meaning it is with the boss.
 *6 It is without the boss.

Note: All part numbers are RoHS Compliant.

Note: Dimensions shown are metric.

2.5 mm Signal Double Lock (2.5 SDL) Connectors (Wire-to-Wire) (Continued)

Vertical Post Headers (For PC Board Mount)

High-Profile Type

Material and Finish

Header Housing—UL94V-0, 6/6 Nylon, glass filled, color (see chart)

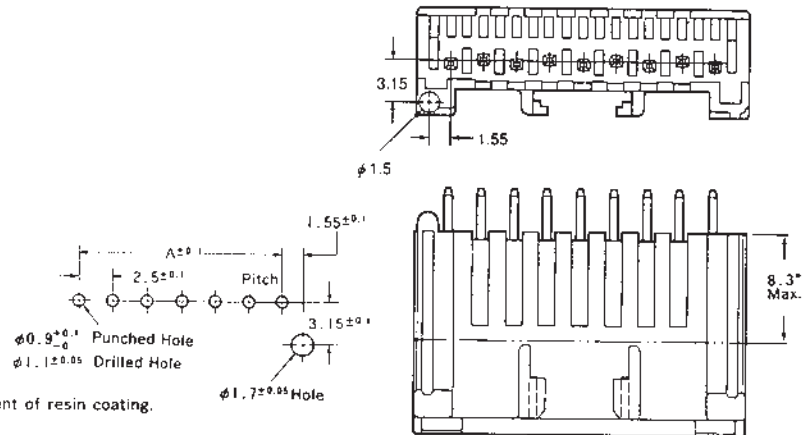
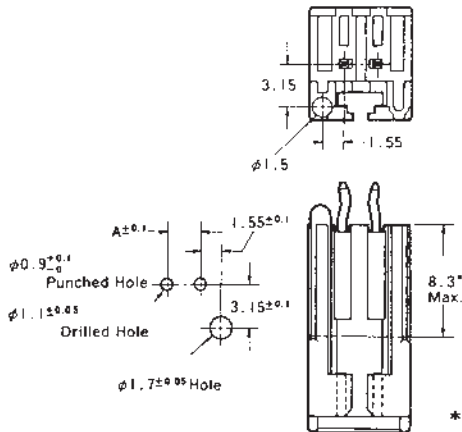
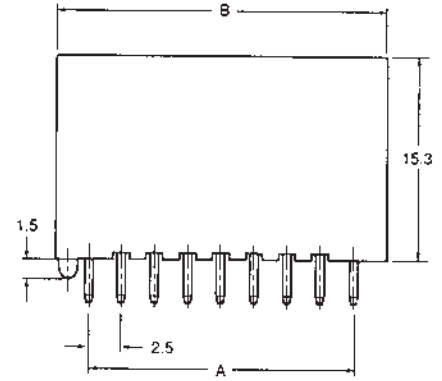
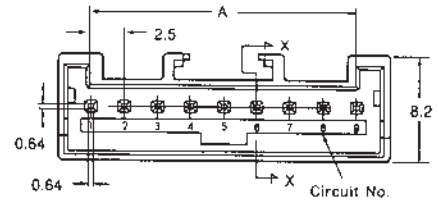
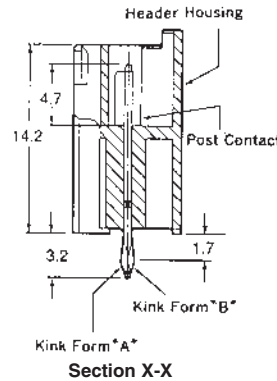
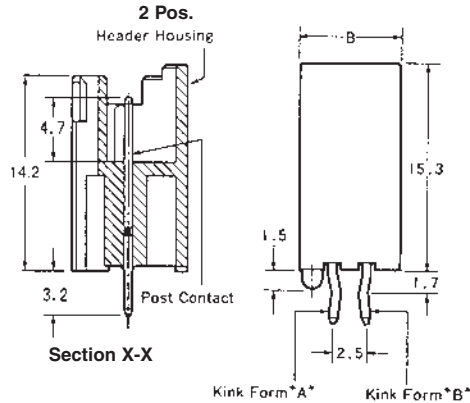
Post Contact—Pre-tinned copper alloy

Related Product Data

Mating Plug Housings—page 13

3 to 13 Pos.

Designs of 5 pos. to 8 pos. header housings are slightly different, please request the drawings.



Note: Dimensions shown are metric.

No. of Pos.	Dimensions		Post Header Part Number							Radial Tape-Mounted	(Qty.)
			Loose Piece								
			Natural	Red	Yellow	Green	Blue	Black	Natural		
2	02.5	07.5	□-917722-1*1	□-917722-2*1	□-917722-4*1	□-917722-5*1	□-917722-6*1	□-917722-9*1	316221-1	(900) ²	
3	05.0	10.0	□-917723-1*1	—	—	—	—	—	316222-1	(900)	
4	07.5	12.5	□-917724-1*1	—	—	—	—	—	316223-1	(450)	
5	10.0	15.0	□-917725-1*1	—	—	—	—	—	316224-1	(450)	
6	12.5	17.5	□-917726-1*1	—	□-917726-4*1	—	□-917726-6*1	—	316225-1	(450)	
7	15.0	20.0	□-917727-1*1	—	—	—	—	—	316226-1	(450)	
8	17.5	22.5	□-917728-1*1	—	—	—	—	—	316227-1	(450)	
9	20.0	25.0	□-917729-1*1	—	—	—	—	—	—	—	
10	22.5	27.5	□-917730-1*1	—	—	—	—	—	—	—	
11	25.0	30.0	□-917731-1*1	—	—	—	—	—	—	—	
12	27.5	32.5	□-917732-1*1	—	—	—	—	—	—	—	
13	30.0	35.0	□-917733-1*1	—	—	—	—	—	—	—	



*1 Leave the □ blank, meaning it is with the boss. Enter 2 meaning it is without the boss.

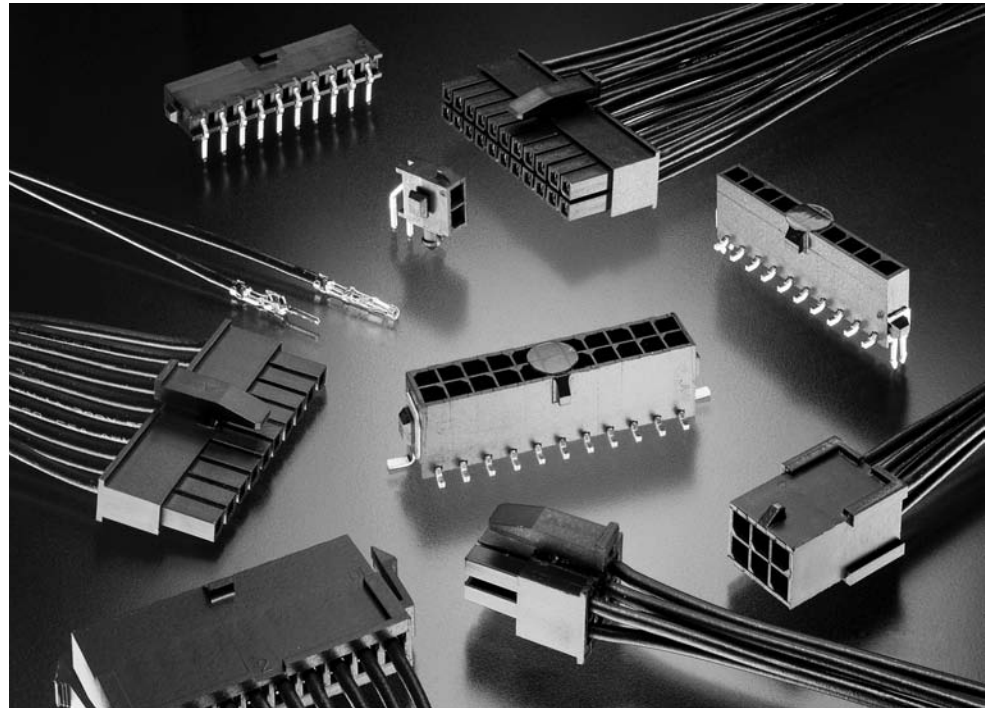
*2 The red housing 316221-2 and the yellow housing 316221-4 and the green housing 316221-5 and the blue housing 316221-6 and the black housing 316221-9 are also available.

Note: All part numbers are RoHS Compliant.

Micro MATE-N-LOK 3 mm Connector System

Product Facts

- Wire-to-wire and wire-to-board pin and receptacle connector system
- Contacts are on 3 mm [.118] centerline spacing
- 2-12 contact positions – single row
- 2-24 contact positions – dual row
- Panel mount or free-hanging wire-to-wire configurations
- Dual beam contact design for reliable interconnection
- Contacts accept 24-20 [0.2-0.6] and 30-26 [0.05-0.15] AWG wire with insulation diameter of .060 [1.52] maximum
- Contacts available in strip form or loose piece
- Pcb mount pin header assemblies in both vertical and right-angle styles
- Surface mount or through-hole pcb pin header attachment
- Pcb headers are IR reflow process compatible
- Recognized under the Component Program of Underwriters Laboratories Inc.  to US and Canadian Standards, File No. E28476
- Passed Tests for VDE under Registration Number 40005280/Continuous Surveillance 



The Micro MATE-N-LOK 3 mm Connector System is a wire-to-wire and wire-to-board connector system with contacts on a 3 mm [.118] centerline. Both single-row and dual-row configurations are available. Crimp, snap-in pin and receptacle contacts are used to terminate 24-20 [0.2-0.6] and 30-26 [0.05-0.15] AWG wire. Plug and receptacle housings allow wire-to-wire and wire-to-panel configurations.

Header assemblies for wire-to-board interconnections include vertical and right-angle components. These IR reflow process compatible headers are available in through-hole and surface mount configurations.

Typical uses of the Micro MATE-N-LOK 3 mm Connector System include the appliance, instrumentation, industrial machinery, home equipment, and security system industries.

Technical Documents

Application Specification

114-13000 Micro MATE-N-LOK Connectors

Product Specification

108-1836 3 mm Micro MATE-N-LOK Connector

Performance Characteristics

Voltage Rating—250 vac

Current Rating—5 amp max. on 20 AWG wire

Contact Resistance—20 milliohms max. final

Dielectric Withstanding Voltage—1500 VAC

Insulation Resistance—1000 megohms min.

Operating Temperature—-40°C to +105°C

Mating Force—1.5lb [6.67N] max per contact

Micro MATE-N-LOK 3 mm Connector System (Continued)

Connector Application 19-21
Crimp, Snap-In Contacts 22

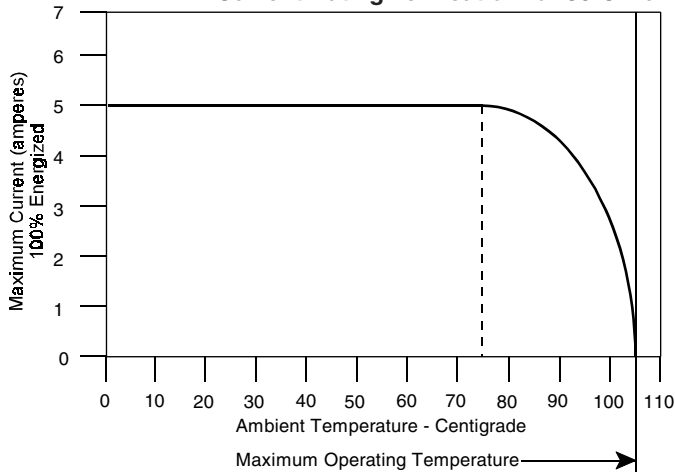
Receptacle Housings
Single Row 23
Dual Row 24

Plug Housings
Single Row, Free-Hanging 25
Single Row, Panel Mount 26
Dual Row, Free-Hanging 27
Dual Row, Panel Mount 28

Vertical Header Assemblies
Low Profile Receptacle Housings,
Right Angle Surface Mount Housings. 29
Single Row, Through-Hole, with Retention Feature
on Solder-tail and Polarization Feature to PCB 30
Single Row, Through-Hole, with Metal Through-Hole Hold-down 31
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Single Row, Surface Mount, with Surface Mount Hold-down 33
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on Solder-tail and Metal Through-Hole Hold-down 35
Dual Row, Surface Mount, with Metal Through-Hole Hold-down. 36
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Right-Angle Header Assemblies
Single Row, Through-Hole, with Metal Through-Hole Hold-down 38
Single Row, Through-Hole, with Plastic Boardlock 39
Single Row, Surface Mount, with Metal Through-Hole Hold-down 40
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Single Row, Surface Mount, with Plastic Boardlock. 42
Dual Row, Through-Hole, with Metal Through-Hole Hold-down 43
Dual Row, Through-Hole, with Plastic Boardlock. 44
Dual Row, Surface Mount, with Metal Through-Hole Hold-down. 45
Dual Row, Surface Mount, with Plastic Boardlock. 46
Dual Row, Surface Mount, with Surface Mount Hold-down 47

Current Rating Verification for 30°C Maximum Temperature Rise 100% Energized



Number of Circuit Positions	Multiplication Factor	
	Wire Size (AWG)	
2 to 6	0.40	1
8 to 20	0.40	0.85
22 to 24	0.36	0.85

To determine acceptable current carrying capacity for connector size and wire gage indicated, use the Multiplication Factor from the chart above and multiply it times the Base rated Current at the maximum ambient operating temperature shown in the current rating figure.


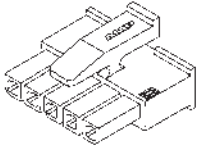

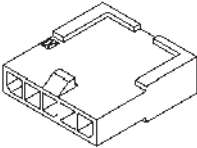
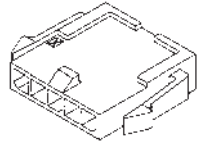
High Density

Micro MATE-N-LOK 3 mm Connector System
.118 [3.00] Centerline


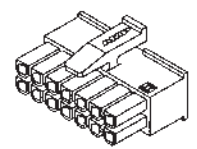

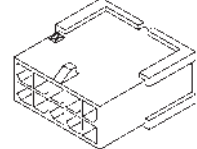
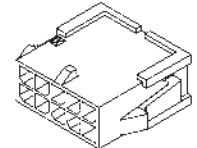
Micro MATE-N-LOK 3 mm Connector System (Continued)

**Connector Application —
Wire-to-Wire and
Wire-to-Panel**

Single Row

Receptacle		Plug	
Contact	Housing	Contact	Housing
 <p>□-794606-□, □-794607-□, □-794610-□, □-794611-□ Page 22</p>	 <p>□-1445022-□ Page 23</p>	 <p>□-794608-□, □-794609-□, □-794612-□, □-794613-□ Page 22</p>	 <p>Free-Hanging □-1445049-□ Page 25</p>  <p>Panel Mount □-1445048-□ Page 26</p>

Dual Row

Receptacle		Plug	
Contact	Housing	Contact	Housing
 <p>□-794606-□, □-794607-□, □-794610-□, □-794611-□ Page 22</p>	 <p>□-794617-□ Page 24</p>	 <p>□-794608-□, □-794609-□, □-794612-□, □-794613-□ Page 22</p>	 <p>Free-Hanging □-794616-□ Page 27</p>  <p>Panel Mount □-794615-□ Page 28</p>


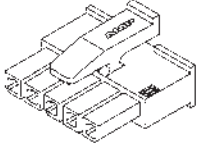
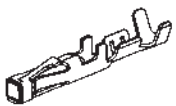
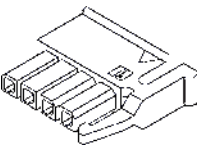
High Density

Micro MATE-N-LOK 3 mm Connector System
.118 [3.00] Centerline

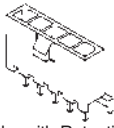
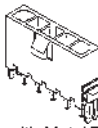
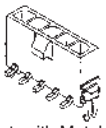
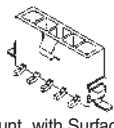
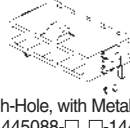
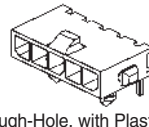
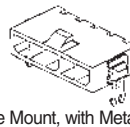
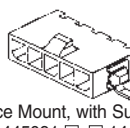

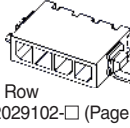
Micro MATE-N-LOK 3 mm Connector System (Continued)

**Connector Application —
Wire-to-PCB**

Single Row

Receptacle	
Contact	Housing
 <p>□-794606-□, □-794607-□, □-794610-□, □-794611-□ (Page 22)</p>	 <p>□-1445022-□ (Page 23)</p>
 <p>□-794606-□, □-794607-□, □-794610-□, □-794611-□ (Page 29)</p>	 <p>□-2029047-□, □-2029102-□, □-2029030-□, □-2029104-□, (Page 29)</p>

Low Profile, Single Row

Header
 <p>Vertical Through-Hole, with Retention Feature on Solder-tail and Polarization Feature to PCB □-1445050-□, □-1445084-□, □-1445093-□ (Page 30)</p>
 <p>Vertical Through-Hole, with Metal Through-Hole Hold-down □-1445051-□, □-1445085-□, □-1445094-□ (Page 31)</p>
 <p>Vertical Surface Mount, with Metal Through-Hole Hold-down □-1445052-□, □-1445086-□, □-1445095-□ (Page 32)</p>
 <p>Vertical Surface Mount, with Surface Mount Hold-down □-1445053-□, □-1445087-□, □-1445096-□ (Page 33)</p>
 <p>Right-angle, Through-Hole, with Metal Through-Hole Hold-down □-1445054-□, □-1445088-□, □-1445097-□ (Page 38)</p>
 <p>Right-angle, Through-Hole, with Plastic Boardlock □-1445055-□, □-1445089-□, □-1445098-□ (Page 39)</p>
 <p>Right-angle, Surface Mount, with Metal Through-Hole Hold-down □-1445056-□, □-1445090-□, □-1445099-□ (Page 40)</p>
 <p>Right-angle, Surface Mount, with Surface Mount Hold-down □-1445057-□, □-1445091-□, □-1445100-□ (Page 41)</p>
 <p>Right-angle, Surface Mount, and Plastic Boardlock □-1445058-□, □-1445092-□, □-1445101-□ (Page 42)</p>
 <p>Low Profile, Single Row □-2029030-□, □-2029102-□ (Page 29)</p>


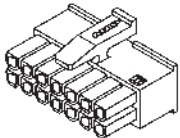
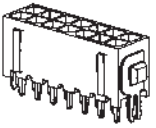
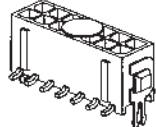
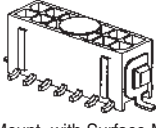

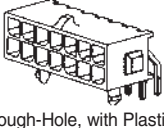
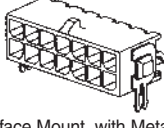
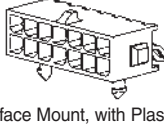
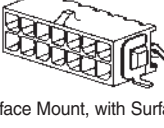


High Density
Micro MATE-N-LOK 3 mm Connector System
.118 [3.00] Centerline

Micro MATE-N-LOK 3 mm Connector System (Continued)

**Connector Application —
Wire-to-PCB**

Dual Row

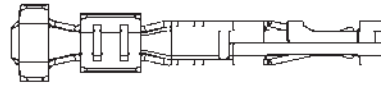
Receptacle		Header
Contact	Housing	
 <p>□-794606-□, □-794607-□, □-794610-□, □-794611-□ (Page 22)</p>	 <p>□-794617-□ (Page 24)</p>	<div style="text-align: center;">  <p>Vertical Through-Hole, with Retention Feature on Solder-tail and Optional Metal Through-Hole Hold-down □-794630-□, □-794631-□, □-794632-□, (Page 34) □-794680-□, □-794681-□, □-794682-□ (Page 35)</p> </div> <div style="text-align: center;">  <p>Vertical Surface Mount, with Metal Through-Hole Hold-down □-794633-□, □-794634-□, □-794635-□ (Page 36)</p> </div> <div style="text-align: center;">  <p>Vertical Surface Mount, with Surface Mount Hold-down □-794636-□, □-794637-□, □-794638-□ (Page 37)</p> </div> <div style="text-align: center;">  <p>Right-angle, Through-Hole, with Metal Through-Hole Hold-down □-794677-□, □-794678-□, □-794679-□ (Page 43)</p> </div> <div style="text-align: center;">  <p>Right-angle, Through-Hole, with Plastic Boardlock □-794618-□, □-794619-□, □-794620-□ (Page 44)</p> </div> <div style="text-align: center;">  <p>Right-angle, Surface Mount, with Metal Through-Hole Hold-down □-794624-□, □-794625-□, □-794626-□ (Page 45)</p> </div> <div style="text-align: center;">  <p>Right-angle, Surface Mount, with Plastic Boardlock □-794621-□, □-794622-□, □-794623-□ (Page 46)</p> </div> <div style="text-align: center;">  <p>Right-angle, Surface Mount, with Surface Mount Hold-down □-794627-□, □-794628-□, □-794629-□ (Page 47)</p> </div>

High Density

Micro MATE-N-LOK 3 mm Connector System
.118 [3.00] Centerline

Micro MATE-N-LOK 3 mm Connector System (Continued)

Crimp, Snap-In Contacts



Material and Finish

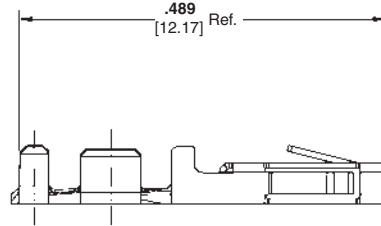
Receptacle — Phosphor Bronze

Plug — Brass

Plating A — .000100 (.000254) minimum bright tin entire stock over .000050 (.000127) minimum nickel entire stock

Plating B — .000015 (.000038) minimum gold in localized gold plate area. .000100 (.000254) minimum bright tin in localized tin plate area, both over .000050 (.000127) minimum nickel on entire stock

Plating C — .000030 (.000076) minimum gold in localized gold plate area. .000100 (.000254) minimum bright tin in localized tin plate area, both over .000050 (.000127) minimum nickel on entire stock



Receptacle Contacts

Wire Size Range AWG [mm ²]	Ins. Dia. Range	Finish	Contact Part Numbers		Tooling Part Numbers	
			Strip Form	Loose Piece	Applicator	Hand Tool
20-24 0.50 - 0.20	.035 - .060 0.89-1.52	Plating A	794606-1	794610-1	680893-□*	91501-1
		Plating B	1-794606-1	1-794610-1		
		Plating C	1-794606-2	1-794610-2		
26-30 0.12 - 0.05	.035 - .060 0.89-1.52	Plating A	794607-1	794611-1	680894-□*	91502-1
		Plating B	1-794607-1	1-794611-1		
		Plating C	1-794607-2	1-794611-2		

*1=AMPOMATOR CLS Machine, 2=AMP-O-LECTRIC Model K Terminator, 3=AMP-O-LECTRIC Model G Terminator

Note: All part numbers are RoHS Compliant.

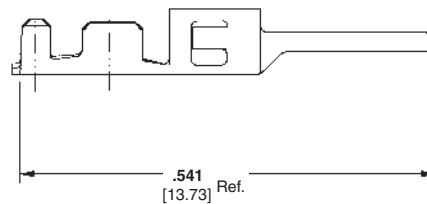
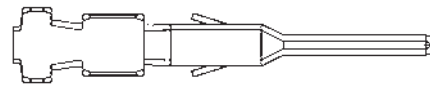
Related Product Data

Connectors used with:

Receptacle Contacts used with Receptacle Housings — pages 23-24

Plug Contacts used with Plug Housings — pages 25-28

Application Tooling— pages 207-210



Plug Contacts

Wire Size Range AWG [mm ²]	Ins. Dia. Range	Finish	Contact Part Numbers		Tooling Part Numbers	
			Strip Form	Loose Piece	Applicator	Hand Tool
20-24 0.50 - 0.20	.035 - .060 0.89-1.52	Plating A	1-794608-0	1-794612-0	1385194-□*	91501-1
		Plating B	1-794608-1	1-794612-1		
		Plating C	1-794608-2	1-794612-2		
26-30 0.12 - 0.05	.035 - .060 0.89-1.52	Plating A	1-794609-0	1-794613-0	1385377-□*	91502-1
		Plating B	1-794609-1	1-794613-1		
		Plating C	1-794609-2	1-794613-2		

*1=AMPOMATOR CLS Machine, 2=AMP-O-LECTRIC Model K Terminator, 3=AMP-O-LECTRIC Model G Terminator

Note: All part numbers are RoHS Compliant.

Contact Extraction Tools

Part Number 843996-6 for Receptacle Contacts Part Number 1586344-1 for Plug Contacts

High Density
Micro MATE-N-LOK 3 mm Connector System
.118 [3.00] Centerline

Micro MATE-N-LOK 3 mm Connector System (Continued)

High Density

Micro MATE-N-LOK 3 mm Connector System
.118 [3.00] Centerline

Receptacle Housings

Single Row

Material

Nylon, Black
Flammability Rating—UL 94V-0

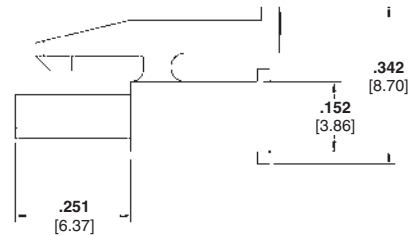
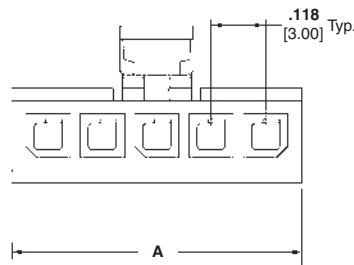
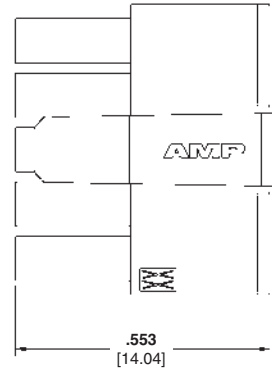
Related Product Data

Contacts:

Receptacle Contacts—page 22

Mateable Housings and Headers:

Single Row Plug Housings—
pages 25-26
Single Row Vertical Pin Header
Assemblies—pages 30-37
Single Row Right-Angle Pin Header
Assemblies—pages 38-47



Number of Circuits	Dimension A	Part Numbers
2	.276 7.00	1445022-2
3	.394 10.00	1445022-3
4	.512 13.00	1445022-4
5	.630 16.00	1445022-5
6	.748 19.00	1445022-6
7	.866 22.00	1445022-7
8	.984 25.00	1445022-8
9	1.102 28.00	1445022-9
10	1.220 31.00	1-1445022-0
11	1.339 34.00	1-1445022-1
12	1.457 37.00	1-1445022-2

Note: All part numbers are RoHS Compliant.

Micro MATE-N-LOK 3 mm Connector System (Continued)

Receptacle Housings

(Continued)

Dual Row

Material

Nylon, Black
Flammability Rating—UL 94V-0

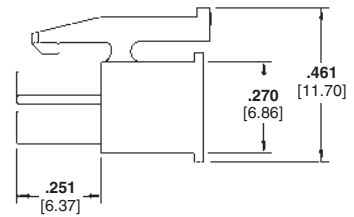
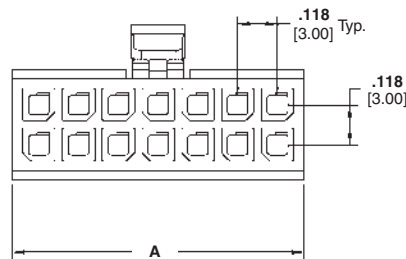
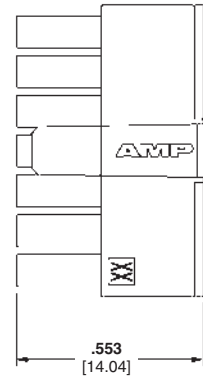
Related Product Data

Contacts:

Receptacle Contacts—page 22

Mateable Housings and Headers:

Dual Row Plug Housings—pages 27-28
Dual Row Vertical Pin Header Assemblies—pages 34-37
Dual Row Right-Angle Pin Header Assemblies—pages 43-47



Number of Circuits	Dimension A	Part Numbers
2	.157 4.00	794617-2
4	.276 7.00	794617-4
6	.394 10.00	794617-6
8	.512 13.00	794617-8
10	.630 16.00	1-794617-0
12	.748 19.00	1-794617-2
14	.866 22.00	1-794617-4
16	.984 25.00	1-794617-6
18	1.102 28.00	1-794617-8
20	1.220 31.00	2-794617-0
22	1.339 34.00	2-794617-2
24	1.457 37.00	2-794617-4

Note: All part numbers are RoHS Compliant.

High Density
Micro MATE-N-LOK 3 mm Connector System
.118 [3.00] Centerline

Micro MATE-N-LOK 3 mm Connector System (Continued)

Plug Housings

Single Row, Free-Hanging

Material

Nylon, Black
Flammability Rating—UL 94V-0

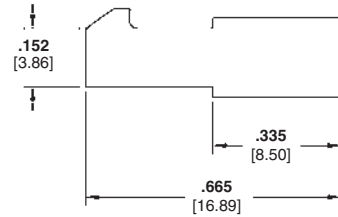
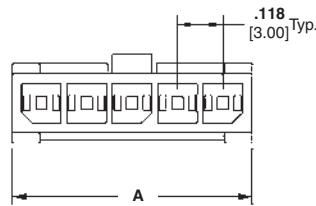
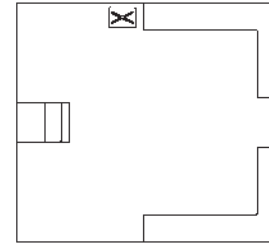
Related Product Data

Contacts:

Plug Contacts—page 22

Mateable Housings:

Single Row Receptacle Housings—
page 23



Number of Circuits	Dimension A	Part Numbers
2	.270 6.85	1445049-2
3	.388 9.85	1445049-3
4	.506 12.85	1445049-4
5	.624 15.85	1445049-5
6	.742 18.85	1445049-6
7	.860 21.85	1445049-7
8	.978 24.85	1445049-8
9	1.096 27.85	1445049-9
10	1.215 30.85	1-1445049-0
11	1.333 33.85	1-1445049-1
12	1.451 36.85	1-1445049-2

Note: All part numbers are RoHS Compliant.