













Interfaces

Product Facts

- Pins and sockets have low insertion force
- High current ratings with very low resistance
- All plated products are gold or silver plated
- Louvertac bands have a temperature range from -196°C to +200°C available
- Formed bands are available for up to 1.250 [31.75] pin diameter

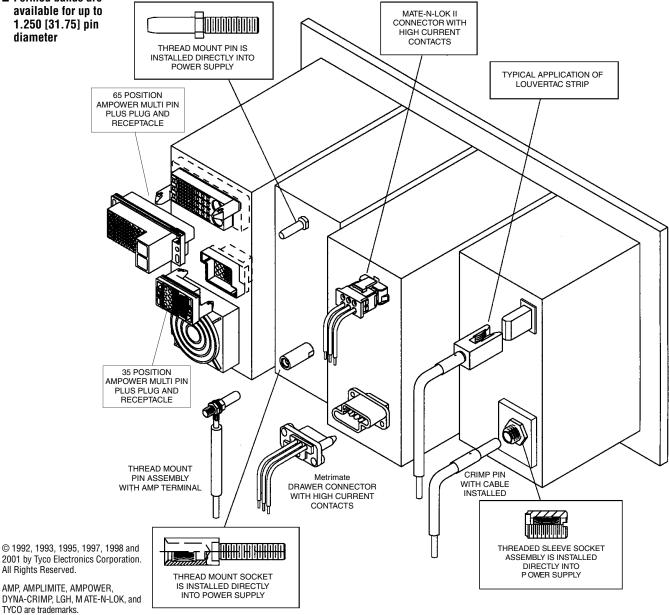
The transfer of high current with manageable insertion and withdrawal forces has always presented a challenge to the connector industry.

Louvertac bands provide a unique means of transferring high amperage with a resultant space and weight savings. Tyco Electronics Corporation offers a wide

range of pin and socket sizes for your applications. Strip and formed Louvertac bands are also offered for customer use in their own contact design. The wide variety of flat and formed male and female bands provide the ability to design electrical connections more inexpensively and quickly.

Louvertac products are your high current applications solution.

The variety of pins and sockets available from Tyco **Electronics Corporation** provide a quick and simple solution to most high current applications.



Dimensions are shown for reference purposes only.

Other products, logos, and Company names mentioned herein may be trademarks of their respective owners.

> Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Specifications subject to change.

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Documents available through AMP FAX include part numbers/catalog pages, drawings, application/product specifications, PCB layouts, and distributor information. Order as many as 20 pages of information at a time, with more than 100,000 drawings, specs, and more available.



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Catalogs

Technical Documents

- Product Samples
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Thread Mount Socket and Pin Assembly

Thread Mount Sockets

These sockets are designed for easy installation and removal. The large variety of sizes have ratings from 30 continuous amps and can be mated with Thread Mount Pins and Crimp Pins.

Material

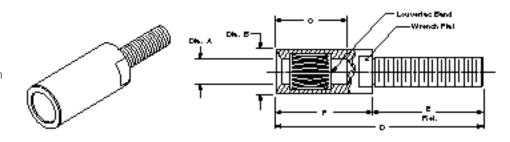
Body — Brass

Louvertac Band — Beryllium Copper

Finish

Body - Silver

Louvertac Band — See Table



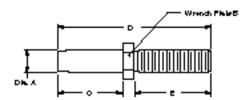
Mating	Part		Contin.	Voltage			Dimen	sions			Louvertac
Pin Dia.	Number	Thread	Current (Amp)	Drop (mV)	A Dia.	B Dia.	С	D	E Ref.	F	Band Plating
2 mm	192059-1	M3x0.5	30	12	.080 2.0	.220 5.6	.670 17.0	1.42 36.1	.630 16	.790 20.1	Silver
4 mm	192129-1	10-32	60	10	. 160 4.1	.280 7.1	.790 20.1	2.00 50.8	1.00 25.4	1.00 25.4	Gold
6 mm	192211-1	1/4-28	100	11	.240 6.1	.410 10.4	.800 20.3	2.09 53.1	1.00 25.4	1.09 27.7	Gold
8 mm	192271-1	5/16-24	185	12	.320 8.1	.560 14.2	1.40 35.6	3.07 78	1.42 36.0	1.65 41.9	Silver

Thread Mount Pins

These pins are designed for thread mount. The large variety of sizes have ratings from 30 continuous amps and are designed to be mated with Thread Mount Sockets, Threaded Sleeve Sockets and Crimp Sockets.

Material — Brass Finish — Silver





D:	Dont		Contin.	Dimensions	nsions			
Pin Dia.	Part Number	Thread	Current (Amp)	A Dia.	В	С	D	E Ref.
2 mm	192085-1	M3x0.5	30	.080 2.0	.16 4.1	.65 16.5	1.40 35.6	.63 15.0
4 mm	192161-1	10-32	60	.160 4.1	.25 6.4	.77 19.6	1.91 48.5	.99 25.1
6 mm	192244-1	1/4-28	100	.240 6.1	.31 7.9	.77 19.6	2.03 51.6	1.11 25.2
8 mm	192293-1	5/16-24	185	.320 8.1	.44 11.2	1.30 33.0	2.95 74.9	1.47 37.3



Threaded Sleeve Socket Assembly and Application

Threaded Sleeve Sockets

The Threaded Sleeve Socket Assembly is designed for High Current in a restricted space. The Sleeve can be screwed directly into a threaded bus bar or it may be inserted into a drilled hole in the bus bar with tightened nuts on each side of the bus bar. A Crimp Pin or Thread Mount Pin can be attached to a cable for the completed connector.

Material

Body — Brass

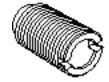
Louvertac Band — Beryllium Copper

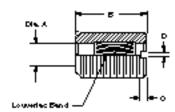
Finish

Body - Silver

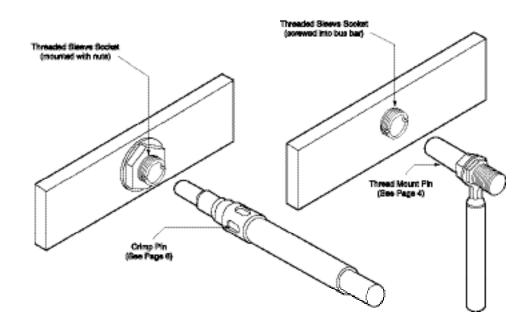
Louvertac Band —

See Table





Matina	Dowt		Contin.	Voltage		Dimensions			Louvertac	
Mating Pin Dia.	Part Number	Thread	Current (Amp)	Drop (mV)	A Dia.	В	С	D	Band Plating	
2 mm	1-192447-0	5/16-32	30	12	.090 2.3	.650 16.5	.060 1.5	.060 1.5	Silver	
4 mm	192447-8	5/16-32	60	10	.160 4.1	.770 19.6	.060 1.5	.060 1.5	Gold	
6 mm	192447-2	1/2-20	100	11	.240 6.1	.770 19.6	.078 2.0	.078 2.0	Gold	
8 mm	1-192447-8	9/16-18	185	12	.320 8.1	1.35 34.3	.100 2.5	.100 2.5	Silver	
12 mm	1-192447-2	3/4-16 UNF -2A	290	13	.479 12.2	1.34 34.0	. 130 3.3	.130 3.3	Silver	





Crimp Pins

Crimp Pins feature a mechanism for locking the pin into a housing designed by the customer. The 2 mm and 4 mm pins are crimped with a Daniels Hand Crimp Tool. Pin sizes from 6 mm to 8 mm may be crimped with the indicated tooling and a DYNA-CRIMP 69120-1 electric-hydraulic power unit. The large variety of sizes have ratings from 24 continuous amps and can be mated with Thread Mount Socket Assemblies, Threaded Sleeve Socket Assemblies or Crimp Sockets.



Material

Body — Copper Alloy **Retention Spring** — Stainless Steel or Beryllium Copper

Finish

Body — Silver

Pin	Part	Contin.	Voltage			Din	nensions	5			Use	Tooling Part Numbers		
Dia.	No.	Current (Amp)		Α	B Dia.	C Dia.	D	E	F	G Dia.	with AWG	Crimp Die	Crimp Head	Extraction Tool
0	193837-1	24	10	1.40 35.6	.225 5.72	.100 2.54	.640 16.3	.211 5.36	.050 1.27	.080 2.0	14	M310	TP1019	318813-1
2 mm	193837-1	30	12	1.40 35.6	.225 5.72	.100 2.54	.640 16.3	.211 5.36	.050 1.27	.080 2.0	12	M310	TP1019	318813-1
	193837-2	44	8	1.53 38.9	.300 7.6	.145 3.7	.750 19.1	.211 5.36	.050 1.27	.160 4.0	10	M310	TP1020	679916-1
4 mm	193837-3	60	8	1.53 38.9	.300 7.6	.181 4.60	.750 19.1	.211 5.36	.050 1.27	.160 4.0	8	M310	TP1020	679916-1
•	193837-4	76	9	1.64 41.7	.410 10.4	.235 5.97	.760 19.3	.211 5.36	.050 1.27	.240 6.0	6	69133-1	69099	679917-1
6 mm	193837-5	100	9	1.73 43.9	.410 10.4	.290 7.37	.760 19.3	.211 5.36	.050 1.27	.240 6.0	4	69134-2	69099	679917-1
0	193837-6	135	10	2.50 63.5	.570 14.5	.390 9.91	1.30 33.0	.211 5.36	.050 1.27	.320 8.0	2	46765-3	69099	679918-1
8 mm	193837-7	185	12	2.63 66.8	.570 14.5	.487 12.37	1.30 33.0	.211 5.36	.050 1.27	.320 8.0	1/0	46766-2	69099	679918-1

Notes: 1. Additional information on AMPOWER terminal hydraulic crimping is available in Catalog 82025.

^{2.} Application Specification — 114-16022



Crimp Sockets

Crimp Sockets feature a mechanism for locking the socket into a housing designed by the customer. An AMP extraction tool is offered to remove the contact. The 2 mm and 4 mm sockets are crimped with a Daniels Hand Crimp Tool. Socket sizes from 6 mm to 8 mm may be crimped with the indicated tooling and a DYNA-CRIMP 69120-1 electric-hydraulic power unit. The large variety of sizes have ratings from 24 continuous amps and can be mated with Thread Mount Pins or Crimp Pins.

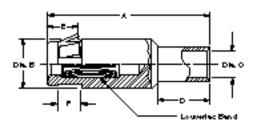
Material

Body — Copper Alloy Louvertac Band — Beryllium Copper Retention Spring — Stainless Steel or Beryllium Copper

Finish

Body - Silver

Louvertac Band — Silver





Mating	Part	Contin.	Voltage			Dimer	nsions			Use	Tool	ing Part Nun	nbers
Pin Dia.	No.	Current (Amp)	Drop (mV)	Α	B Dia.	C Dia.	D	E	F	with AWG	Crimp Die	Crimp Head	Extraction Tool
	193673-1	24	10	1.13 28.7	.230 5.8	.100 2.54	.420 10.7	.211 5.36	.209 5.31	14	M310	TP1021	318813-1
2 mm	193673-1	30	12	1.13 28.7	.230 5.8	.100 2.54	.420 10.7	.211 5.36	.209 5.31	12	M310	TP1021	318813-1
	193673-2	44	8	1.31 33.3	.300 7.6	.145 3.68	.400 10.2	.211 5.36	.209 5.31	10	M310	TP1022	679916-1
4 mm	193673-3	60	8	1.31 33.3	.300 7.6	.181 4.60	.410 10.4	.211 5.36	.209 5.31	8	M310	TP1022	679916-1
0	193673-4	76	9	1.42 36.1	.410 10.4	.235 5.97	.460 11.7	.211 5.36	.209 5.31	6	69133-1	69099	679917-1
6 mm	193673-5	100	9	1.48 37.6	.410 10.4	.290 7.37	.530 13.5	.211 5.36	.209 5.31	4	69134-2	69099	679917-1
	193673-6	135	10	2.26 57.4	.570 14.5	.390 9.91	.640 16.3	.211 5.36	.209 5.31	2	46765-3	69099	679918-1
8 mm	193673-7	185	12	2.45 62.2	.570 14.5	.487 12.37	_	.211 5.36	.209 5.31	1/0	46766-2	69099	679918-1
12 mm	193673-8	* 290	13	2.51 63.7	.795 20.19	.541 13.74	.930 23.62	_	_	2/0	46767-2	69099	_
20 mm	1-193673-2	* 480	11	3.17 80.5	1.072 27.23	.721 18.31	1.24 31.50	_	_	250 MCM	46751-2	69099	_

^{*} Socket contact uses retention ring (not supplied) for locking contact in housing. See Application Specification 114-16022 for details.

Notes: 1. Additional information on AMPOWER terminal hydraulic crimping is available in Catalog 82025.

^{2.} Application Specification — 114-16022



High Current Upgrade Program — Metrimate Drawer Connector Contacts, Size 8

The Louvertac bands have the versatility of being designed into contact dimensions used in existing AMP connectors.

Metrimate High Current contacts have been designed to fit into the existing Drawer Connector housings. A fully energized 8 position connector with 8 gage wires can handle 30 amps per line with a 30°C T-rise on either the cable-to-cable or cable-to-board.

Cable-to-Cable

Material

Contact Body — Copper Alloys
Louvertac Band — Beryllium Copper
Retention Spring — Stainless Steel
Finish — Gold

Product Specification

108-1449 Metrimate Pin and Socket with Louvertac High Current Contact

Connector Voltage Rating — 600 VAC

- Recognized under the Component Program of Underwriters
 Laboratories Inc.,
 File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A

Standard Size 8 Pin Standard Size 8 Socket High Current Size 8 Pin

Contacts

Wire Size	Contact Part Numbers		Crimp Tools					
AWG	Pin	Socket	Crimp tools					
8	193457-1	193458-1	Daniels					
10	193642-1	193643-1	Hand Tool #M310 or AMP P/N 356114-1					
12-14	193534-1	193535-1	Positioner #TP944 or AMP P/N 356336-1					

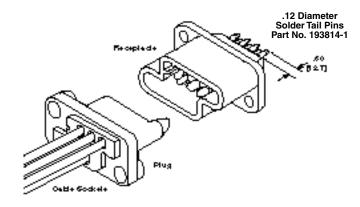
Extraction Tool Part No. 318813-1 or 305183-6

Cable-to-Board Material

Contact Body — Copper Alloys Louvertac Band — Beryllium Copper Retention Spring — Stainless Steel Finish — Gold

A typical application would have solder tail pins mounted into the receptacle and crimp sockets mounted into the plug.

- Recognized under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A



Drawer Connector Housings

Size	Housing Part Numbers			
Configuration	Plug	Receptacle		
8 Positions (8 Size 8 Cavities)	213499-1	213500-1		
15 Positions (3 Size 8 Cavities & 12 Size 16 Cavities)	213426-1	213427-1		

Extraction Tool Part No. 318813-1

Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.

2. Additional information on connectors is available in Catalog 82045.



High Current Upgrade Program — Universal MATE-N-LOK II Connectors

The Louvertac bands have the versatility of being designed into contact dimensions used in existing AMP connectors. Universal MATE-N-LOK II High Current contacts have been designed to fit into an existing Universal MATE-N-LOK II housing. In a cable-to-cable application, the initial T-Rise test of a fully energized 2 circuit connector with 10 gage wires has shown a 32 amp capability per line with a 30°C T-rise.

Cable-to-Cable

Material

Body — Copper Alloy Louvertac Band — Beryllium Copper Finish — See Table Latch Disengaging Tool Part No. 58382-1

- Recognized under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A
- Passed test by VDE under their Registration Number 3915/Continuous Suweillance

Design Objective —108-1583 Application Specification — 114-16021 Connector Voltage Rating —600 VAC

Cable-to-Right-Angle Board

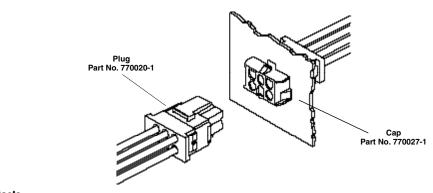
When the Louvertac contacts are used in a cable-to-r/a board application, the initial T-Rise test of a fully energized 2 circuit connector with 10 gage wire and a 2 oz. foil board has shown a 32 amp capability per line with a 30°C T-rise.

Material

Housing — UL 94V-0 Nylon Contact Body — Copper Alloy Louvertac Band — Beryllium Copper Finish — Silver Solder Tail Diameter — .052 [1.32]

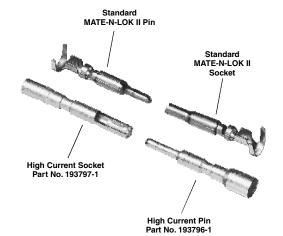
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A
- Passed test by VDE under their Registration Number 3915/Continuous Surveillance

Design Objective —108-1594 **Connector Voltage Rating** — 600 VAC



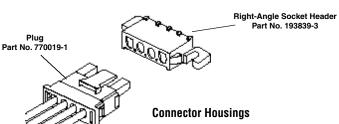
Contacts

Wire Size	Contact Pa	rt Numbers	Louvertac	Cuimo Ta ala	Lubricated	
AWG	Pin	Socket	Band Plating	Crimp Tools	Lubricated	
10	193796-1	193797-1	Silver	D	No	
12-14	193841-1	193842-1	Silver	Daniels Hand Tool #M310 or	No	
12-14	_	193842-3	Gold	AMP P/N 356114-1,	No	
10	194210-1	194211-1	Silver	Positioner #TP1013 or AMP P/N 356337-1	Yes	
12-14	194212-1	194213-1	Silver	AIVII 1/IN 000007-1	Yes	



Connector Housings

No. of	Kit Part	Numbers	
Circults	Plug	Сар	
2	770017-1	770024-1	
3	770018-1	770025-1	
4	770019-1	770026-1	
5	770016-1	_	
6	770020-1	770027-1	
9	770021-1	770028-1	
12	770022-1	770029-1	
15	770023-1	770030-1	
		•	_



No. of	Part Numbers							
Circults	Socket Header	Socket Header with Lubricated Contacts*	Mates with Plug Housing					
2	193839-1	194214-1	770017-1					
3	193839-2	_	770018-1					
4	193839-3	194215-1	770019-1					
5	193839-4	_	770016-1					

^{*}Mates with plug housing shown and with lubricated MATE-N-LOK II high current pin contacts.

Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.

2. Additional information on connectors is available in Catalog 82181.

Dimensions are shown for reference purposes only.

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Specifications subject to change.

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High Current Upgrade Program — Universal MATE-N-LOK II Connectors (Continued)

Vertical Pin Headers

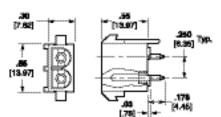
High Current Universal MATE-N-LOK II Vertical Pin Headers are designed to mate with Universal MATE-N-LOK II Plugs with High Current Socket contacts. All housings are polarized to provide for proper circuit board placement. Eight versions are available from 2 circuits to 15 circuits. In a cable-to-vertical board application, the initial T-rise of a fully energized 2 circuit connector with 10 gage wire and a 2 oz. foil board has shown a 36 amp capability per line with a 30°C T-rise.

Material

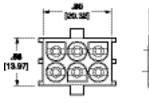
Housing — UL 94V-0 Nylon Contacts — Copper Alloy Solder Tail Diameter — .052 [1.32] Finish — Silver

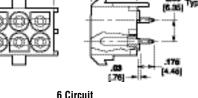
- Recognized under the **Component Program of Underwriters** Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association. File No. LR16455-113
- Passed test by VDE under their Registration Number 3915/Continuous Surveillance

Design Objective -108-1594 Connector Voltage Rating - 600 VAC

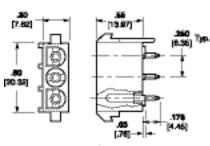


2 Circuit Part No. 194009-1. * Part No. 194269-1 (Lubricated Contacts)

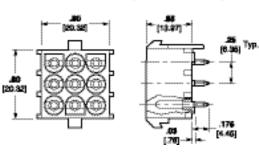




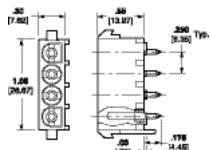
6 Circuit Part No. 194002-1, Part No. 194002-2 (.235 [5.97] Tail Length), Part No. 194002-3 (Tube Packaged), * Part No. 194260-1 (Lubricated Contacts)



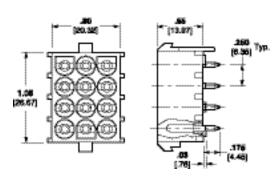
3 Circuit Part No. 194017-1, * Part No. 194610-1 (Lubricated Contacts)



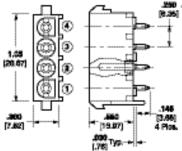
9 Circuit Part No. 194012-1



4 Circuit Part No. 194010-1, * Part No. 194234-1 (Lubricated Contacts)



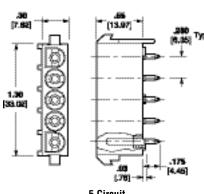
12 Circuit Part No. 194014-1, Part No. 194014-2 (Tube Packaged)

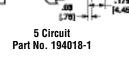


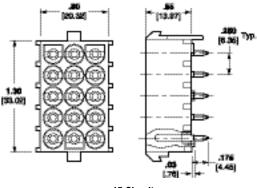
4 Circuit Select Load (See Table)

Pin	Part No.						
Location	194096-2	194096-5					
1	S	Н					
2	Н	Н					
3	S	S					
4	S	S					

S = Standard MATE-N-LOK II Contact H = High Current MATE-N-LOK II Contact







15 Circuit Part No. 194013-1

Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.

- 2. Additional information on connectors is available in Catalog 82181.
- 3. Recommended PC Board Thickness .062 [1.57].

*Mate with MATE-N-LOK II plug housings with lubricated high current socket contacts.



High Current Upgrade Program — Type XII Contacts

The features of the High Current Type XII contact have been designed to fit into the existing AMP Multimate Connectors such as CPC (Circular Plastic Connector), CMC (Circular Metal Connector), G Series, and M Series housings. An initial T-Rise test in free air has shown a 60 amp capability with a 30°C T-Rise with 8 gage wires. The contact may be crimped onto 8 AWG wire with a Daniels Hand Tool M310 or AMP P/N 356114-1 and Positioner TP1068S or AMP P/N 356119-1.

Cable-to-Cable Material

Body — Copper Alloy Louvertac Band — Beryllium Copper Retention Spring — Stainless Steel **Finish** Body - Silver

Louvertac Band — Gold



Extraction Tool Part No. 224155-1

Current-Carrying Capacity. The graph shows current-carrying capacity versus temperature rise for a fully energized 3 position CPC plug P/N 206037-2 and receptacle P/N 206036-2. These initial representative amperage ratings were conducted with 8 AWG wires that were 3 feet long.

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

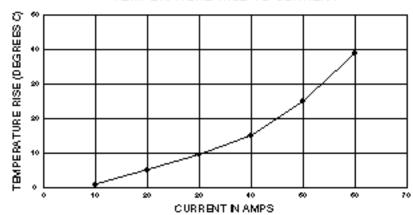


Not recommended for CPC connectors.

Current Rating for 30°C Temperature Rise 100% Energized

3 Circuit Connector (Wire-to-Wire)

TEMPERATURE RISE VS CURRENT





Plug (For Sockets)



Square Flange Receptacle (For Pins)

Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.

- Additional information on CPC and CMC connectors is available in Catalog 82021.
 Additional information on G Series connectors is available in Catalog 82046.
- 4. Additional information on M Series connectors is available in Catalog 82003.
- 5. Additional information on LGH connectors is available in Catalog 82024.



High Current Upgrade Program — Size 16, Type II and Type III+ Contacts

The features of the High Current Size 16 contact have been designed to fit into the existing AMP Multimate Connectors such as CPC (Circular Plastic Connector), CMC (Circular Metal Connector), G Series, M Series, Econoseal Metrimate Square Grid and Drawer Connector housings. An initial T-Rise test in free air has shown a 23 amp capability with a 30°C T-Rise. The contact may be crimped onto 14 AWG wire with an AMP hand tool P/N 601967-1. Use turret TH502 (1-601967-6) for the pin and turret TH501 (1-601967-5) for the socket.

Material

Pin Body — Leaded Brass; Copper Alloy (Board Mount) Socket Body — Copper Alloy Louvertac Band — Beryllium Copper Retention Spring — Stainless Steel Finish

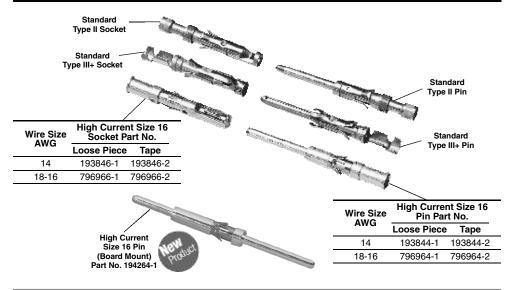
Body — Silver **Louvertac Band** — Gold



Extraction Tool Part No. 305183

Current-Carrying Capacity. The graph shows current-carrying capacity versus temperature rise for a fully energized 6 position Metrimate Square Grid plug P/N 207152-1 and receptacle P/N 207153-1. These initial representative amperage ratings were conducted with 14 AWG wires that were 2 feet long.

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





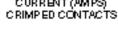
4 Pos. CPC Posted Square Flange Receptacle Part No. 796764-1 Mates with CPC Plug (Part No. 206060-1) with either Type II or High Current Socket contact

Current Rating for 30°C Temperature Rise 100% Energized

6 Circuit Metrimate Connector (Wire-to-Wire)

CORRENT (WAS)

TEMPERATURE RISE VS. GURRENT















Plug (for Sockets)

Receptacle (for Pins)

Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.

- 2. Additional information on CPC and CMC connectors is available in Catalog 82021.
- 3. Additional information on G Series connectors is available in Catalog 82046.
- 4. Additional information on M Series connectors is available in Catalog 82003.
- Additional information on Metrimate connectors is available in Catalog 82045.
 Additional information on Metrimate connectors is available in Catalog 82045.
- 6. Additional information on Econoseal connectors is available in Catalog 82057.
- 7. Additional information on LGH connectors is available in Catalog 82024.

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Dimensions are shown for reference purposes only.

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Specifications subject to change.

Technical Support Center 1-800-522-6752 www.tycoelectronics.com



High Current Upgrade Program — Size 20 Posted Contacts

The High Current Size 20 contact has been designed to fit into the Series 109 AMPLIMITE Connectors per MIL-C-24308.

Material

Body — Copper Alloy

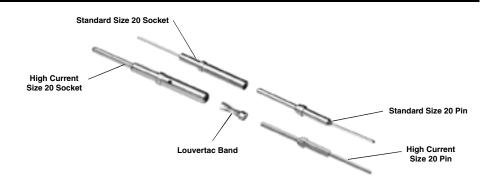
Louvertac Band — Beryllium Copper

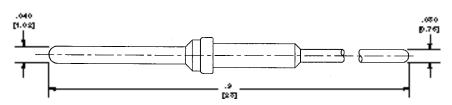
Finish

Body — Gold

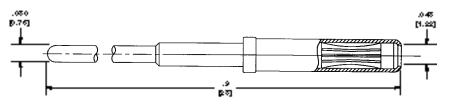
Louvertac Band — Gold

Current-Carrying Capacity. The High Current Size 20 contact with a 20 gage wire attached to the .030 diameter solder tail acquired an initial 30°C T-Rise of 11.85 amps in free air.





Pin Part No. 194081-1



Socket Part No. 194083-1

The contacts can be sold loose piece or installed into any of the MIL Standard connectors.

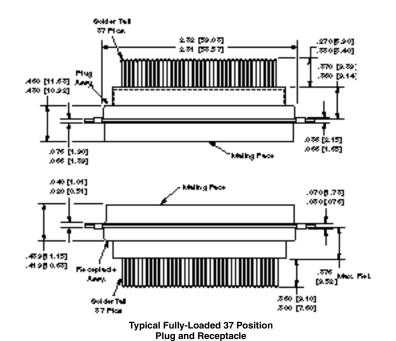


Pin and Socket Insertion/Extraction Tool

Part Number **91067-2** or MIL number **M81969/1-02**

Insertion tip, for replacement Part Number **126195-3**

Extraction tip, for replacement Part Number **126195-4**



Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.

2. Additional information on connectors is available in Catalog 82069.

13

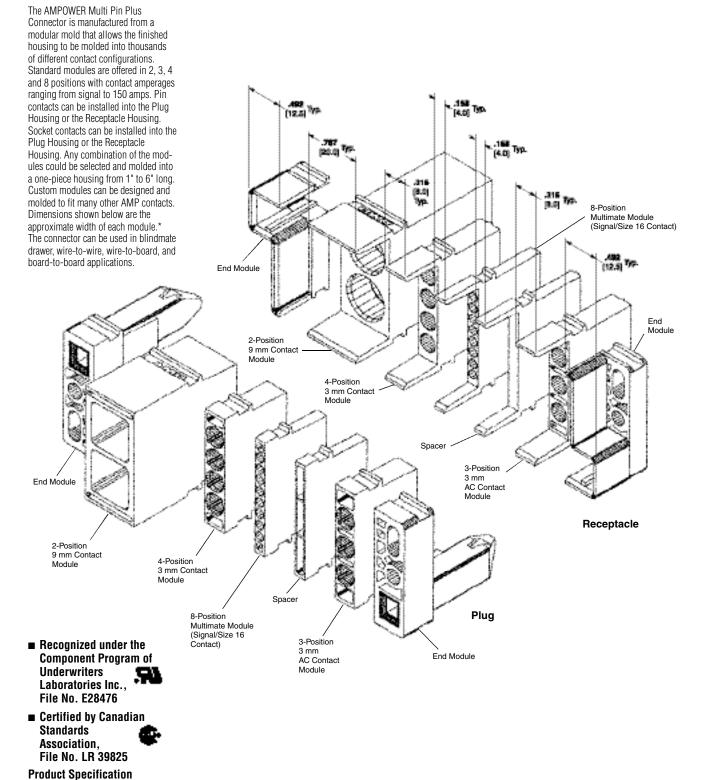
Technical Support Center

www.tycoelectronics.com

1-800-522-6752



AMPOWER Multi Pin Plus Connector



^{*}For example: Using both end modules (always required) and a 2-position 9 mm contact module, a 4-position 3 mm contact module, and two (2) 8-position signal/size 16 contact modules would produce a connector approximately 2.402 [61.0] in length (.492 [12.5] x 2 + .787 [20.0] + .315 [8.0] + .158 [4.0] x 2).

108-1809



Standard 65-Position Plug and Receptacle Housing

Designed to accept 65 contacts from signal level to 150 amps.

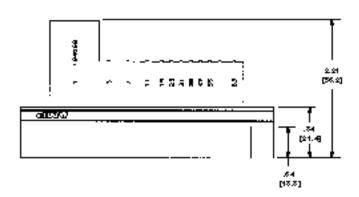
The housing accepts:

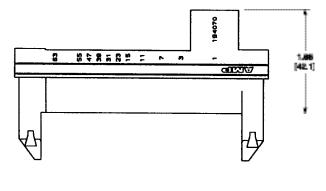
- 2 9 mm Contacts
- 12 3 mm Contacts
- 48 Signal/Size 16 Contacts
- 3 3 mm AC Contacts

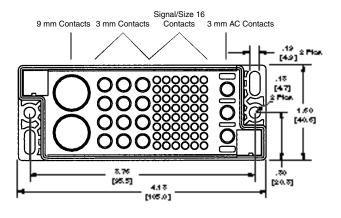
Material — Polyester, UL 94V-0 rating

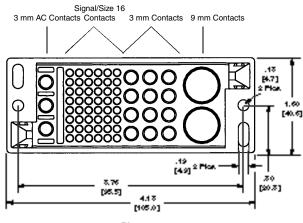
Connector Voltage Rating —

250 VAC









Receptacle 194069-1 (shown) 194069-3 with two 6-32 inserts (Front Mounted)

- Recognized under the **Component Program of** Underwriters Laboratories Inc... File No. E28476
- **■** Certified by Canadian **Standards** Association, File No. LR7189A

Plug 194070-1 (shown) 194070-3 with two 6-32 inserts (Front Mounted)



Standard 35-Position Plug and Receptacle Housing

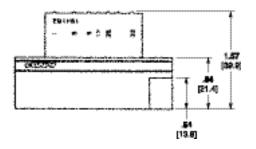
Designed to accept 35 contacts from signal level to 30 amps.

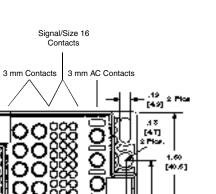
The housing accepts:

- 8 3 mm Contacts
- 24 Signal/Size 16 Contacts
- 3 3 mm AC Contacts

Material — Polyester, UL 94V-0 rating

Connector Voltage Rating — 250 VAC





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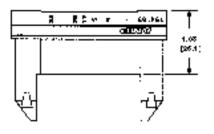
20.0

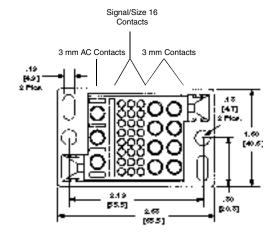
Receptacle 194182-1 (shown) 194182-3 with two 6-32 inserts (Front Mounted)

[asv]

p5.5]

- Recognized under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A





Plug 194183-1 (shown) 194183-3 with two 6-32 inserts (Front Mounted)



39-Position Plug and Receptacle Housing

Designed to accept 39 contacts from signal level to 150 amps.

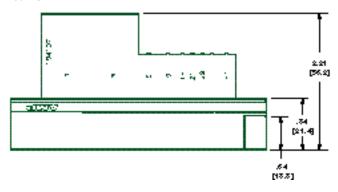
The housing accepts:

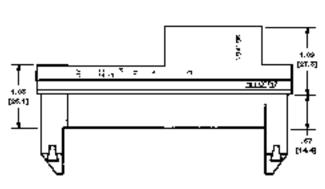
- 4 9 mm Contacts
- 8 3 mm Contacts
- 24 Signal/Size 16 Contacts
- 3 3 mm AC Contacts

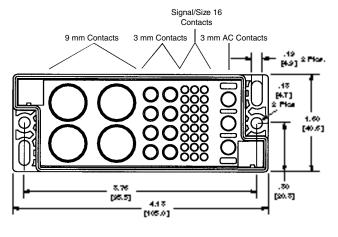
Material — Polyester, UL 94V-0 rating

Connector Voltage Rating —

250 VAC







Receptacle 194197-1 (shown) 194197-3 with two 6-32 inserts

Signal/Size 16
Contacts
3 mm AC Contacts 3 mm Contacts 9 mm Contacts

1 mm AC Contacts 3 mm Contacts 9 mm Contacts

1 mm Contacts 9 mm Contacts

Plug

194196-1 (shown)

194196-3 with two 6-32 inserts

- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A



43-Position Plug and Receptacle Housing

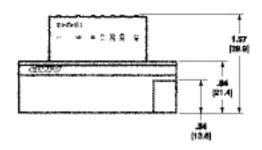
Designed to accept 43 contacts from signal level to 30 amps.

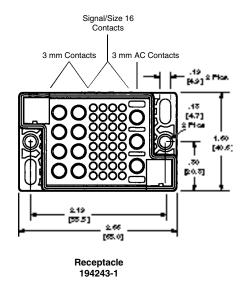
The housing accepts:

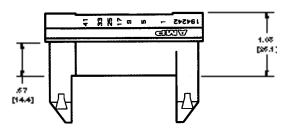
- 8 3 mm Contacts
- 32 Signal/Size 16 Contacts
- 3 3 mm AC Contacts

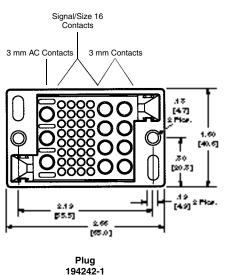
Material — Polyester, UL 94V-0 rating

Connector Voltage Rating — 250 VAC









- Recognized under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A



35-Position Plug and Receptacle Housing

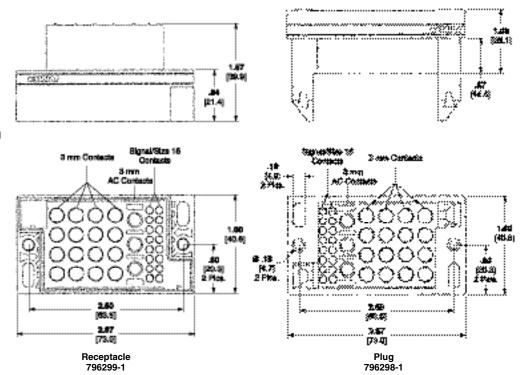
Designed to accept 35 contacts from signal level to 30 amps.

The housing accepts:

- 16 3 mm Contacts
- 3 3 mm AC Contacts
- 16 Signal/Size 16 Contacts

Material — Polyester, UL 94V-0 rating

Connector Voltage Rating — 250 VAC



28-Position Plug and Receptacle Housing

Designed to accept 28 contacts from signal level to 30 amps.

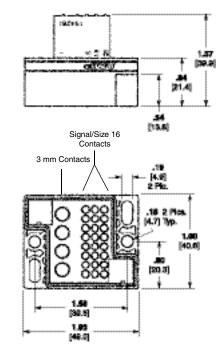
The housing accepts:

- 4 3 mm Contacts
- 24 Signal/Size 16 Contacts

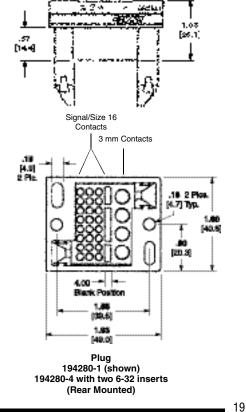
Material — Polyester, UL 94V-0 rating

Connector Voltage Rating — 250 VAC

- Recognized under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A



Receptacle 194281-1 (shown) 194281-4 with two 6-32 inserts (Rear Mounted)



Dimensions are shown for reference purposes only.

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents

Specifications subject to change.

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24-Position Plug and Receptacle Housing

Designed to accept 24 contacts from signal level to 30 amps.

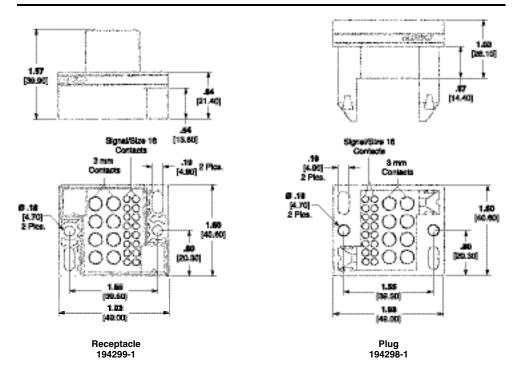
The housing accepts:

8 - 3 mm Contacts

16 - Signal/Size 16 Contacts

Material — Polyester, UL 94V-0 rating

Connector Voltage Rating — 250 VAC



11-Position Plug and Receptacle Housing

Designed to accept 11 contacts from signal level to 30 amps. Circuit positions 9 and 11 of the plug are designed so that the socket contact is recessed 5 mm.

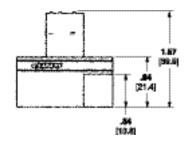
The housing accepts:

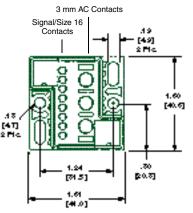
- 3 3 mm AC Contacts
- 8 Signal/Size 16 Contacts

Material — Polyester, UL 94V-0 rating

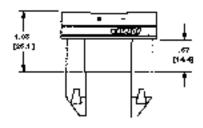
Connector Voltage Rating — 250 VAC

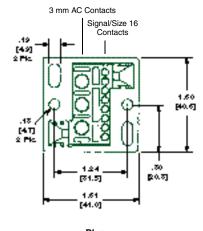
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A





Receptacle 194279-1





Plug 194278-1



2-Position Plug and **Receptacle Housing**

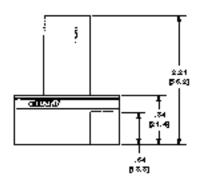
Designed to accept two 150 amp contacts.

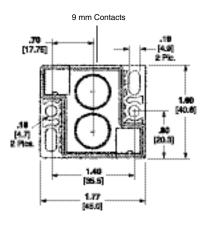
The housing accepts: 2 - 9 mm Contacts

Material — Polyester, UL 94V-0 rating

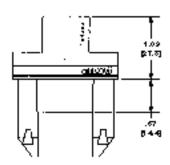
Connector Voltage Rating —

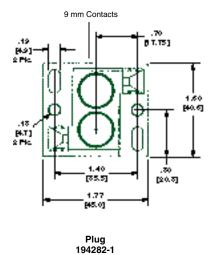
250 VAC





Receptacle 194283-1





- Recognized under the **Component Program of** Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A



9 mm Pin Crimp Contact

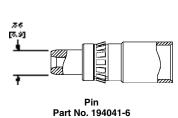
The 9 mm Pin is designed to fit into the 2-Position Module. The Pin has a retention spring that locks the contact into the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The contact can be crimped with the indicated DYNA-CRIMP 69120-1 electric-hydraulic power unit.

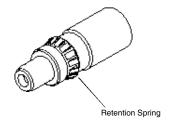
Material

Body — Copper Alloy Retention Spring — Beryllium

Copper **Finish**

Body - Silver





Part	Current	Contact	Use with	Tod	oling Part Nu	mbers
No.	Rating (Amp)	Sequence Level*	AWG	Crimp Die	Crimp Head	Extraction Tool
194041-6	150	Third Mate	1/0	46766-2	69099	662725-1

^{*}When used with other AMPOWER Multi Pin Plus Contacts.

9 mm Socket Crimp Contact

The 9 mm Socket is designed to fit into the 2-Position Module. The Socket has a retention spring that locks the contact into the housing cavity. The Socket has a polymer ring and post that helps prevent any finger contact with bare metal surfaces when installed into the Plug or Receptacle housings. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The contact can be crimped with the indicated DYNA-CRIMP 69120-1 electric-hydraulic power unit.

Material

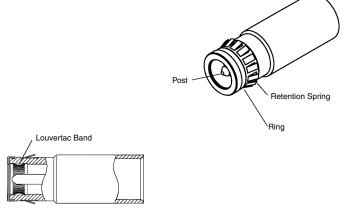
Body - Copper Alloy

Retention Spring — Beryllium Copper Louvertac Band — Beryllium Copper

Post and Ring — Acetyl

Finish

Body - Silver



Socket Part No. 194037-2

Part	Current Use with		Too	oling Part Nu	Numbers	
No.	Rating (Amp)	AWG	Crimp Die	Crimp Head	Extraction Tool	
194037-2	150	1/0	46766-2	69099	662725-1	

Notes: 1. Additional wire sizes and mating levels available upon request.
2. Additional information on AMPOWER terminal hydraulic crimping is available in Catalog 82025.



9 mm Thread Mount Pin Contact

The 9 mm Pin is designed to fit into the 2-Position Module. The Pin has a retention spring that locks the contact into the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The 1/4-28 threads are provided to mount the contact directly to a bus bar.

Material

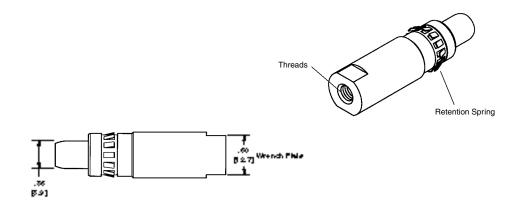
Body — Copper Alloy

Retention Spring — Beryllium Copper

Finish

Body - Silver

Extraction Tool Part No. 662725-1



Pin Part No. 194049-1

9 mm Thread Mount Socket Contact

The 9 mm Socket is designed to fit into the 2-Position Module. The Socket has a retention spring that locks the contact into the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The 1/4-28 threads are provided to mount the contact directly to a bus bar.

Material

Body—Copper Alloy

Retention Spring — Beryllium

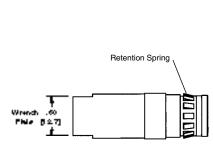
Copper

Post and Ring - Acetyl

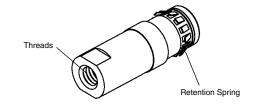
Finish

Body - Silver

Extraction Tool Part No. 662725-1



Socket Part No. 194050-1





3 mm Pin Crimp Contact

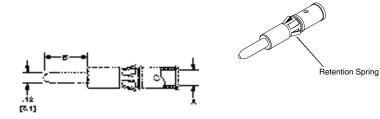
The 3 mm Pin is designed to fit into the 3- and 4-Position Modules. The pin has a retention spring that locks the contact into the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The contact can be crimped with a Daniels Hand Crimp Tool.

Material

Body — Copper Alloy

Finish

Body - Silver



Part	Current	Contact	Use with Dimensions		neione	Too	ling Part Num	ibers
No.	Rating (Amp)	Sequence	AWG	A	В	Crimp Hand Tool	Crimp Tool Positioner	Extraction Tool
194189-3	15	First Mate	12-14	.100 2.54	.541 13.75			
194189-6	15	Second Mate	12-14	.100 2.54	.461 11.75			
194189-7	30	Third Mate	8	.181 4.60	.384 9.75	MOOO	TD4404	050005.4
194189-8	25	Third Mate	10	.145 3.68	.384 9.75	M309	M309 TP1124	356335-1
194189-9	15	Third Mate	12-14	.100 2.54	.384 9.75			
1-194189-1	30	First Mate	8	.181 4.60	.541 13.75			

3 mm Socket Crimp Contact

The 3 mm Socket is designed to fit into the 3- and 4-Position Modules. The Socket has a retention spring that locks the contact into the housing cavity. The Socket has a polymer ring that helps prevent any finger contact with bare metal surfaces when installed into the Plug or Receptacle housings. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The contact can be crimped with a Daniels Hand Crimp Tool.

Material

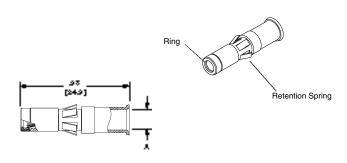
Body — Copper Alloy

Retention Spring — Stainless Steel **Louvertac Band** — Beryllium Copper

Ring — Acetyl

Finish

Body - Silver



Part	Current	Use with	Dimension	Tooling Part Numbers		oers
No.	Rating (Amp)	AWG	A A	Crimp Hand Tool	Crimp Tool Positioner	Extraction Tool
194032-5	30	8	. 181 4.60			
194032-6	25	10	.145 3.68	M309	TP1125	356335-1
194032-7	15	12-14	.100 2.54			

Note: Additional wire sizes and mating levels available upon request.



3 mm Solder Tail Pin and Socket

A 3 mm Solder Tail Pin and Socket are designed to fit into the 3- and 4-Position Modules. The contacts have a retention spring that locks the contact in the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side.

Material

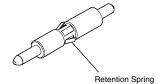
Body — Copper Alloy

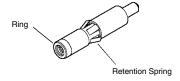
Retention Spring — Stainless Steel

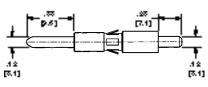
Finish

Body - Silver

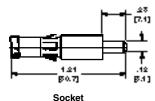
Extraction Tool Part No. 356335-1







Pin Part No. 194251-1



Part No. 194252-1

Type III+ Signal Posted **Contacts** (Replacement Contacts, See Note Below.)

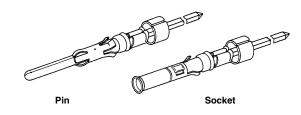
Material

Contact Body and Post - Brass Retention Spring — Stainless Steel

Finish

See chart.

†Single contact, free-air test current; not to be construed as contact rating current. Use only for testing.



Size 16 — Pin Diameter .062 [1.57] (Test Current, 13 Amperes)[†]

			Loose Piece Contact Part No.				
Termination Method	Post Configuration	Contact Finish	3 Termination High Post		1 Termination High Post		
mounou	Comiguration	garation		Socket	Pin	Socket	
Wron Tuno	.045 x .045	Sel. Gold/Nickel ¹	66471-9	66473-9	66471-7	66473-7	
Wrap-Type	1.14 x 1.14	Bright Tin-Lead	66471-3	66473-3	66471-1	66473-1	

'Gold flash over .000050 [0.00127] nickel on entire contact, with .000030 [0.00076] gold to a distance of .200 [5.08] from mating end. Gold thickness controlled on socket O.D. Posts plated tin-lead over copper.

Extraction Tool Part No. 305183.

Insertion Tool Part No. 200893-2.

Note: These contacts are used as replacement contacts for all posted connectors.



3 mm Hot Mate Pin and Socket

A 3 mm Hot Mate Pin and Socket are designed to fit into the 3- and 4-Position Modules. The contacts have a retention spring that locks the contact in the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The contact can be crimped with a Daniels Hand Crimp Tool. Two contacts were installed into the 3-Position 3 mm AC Module and subjected to 52 amps at 250 VAC for 250 cycles. Contact UL rating — 35 A

Material

Body — Copper Alloy

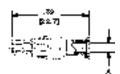
Retention Spring — Stainless Steel

Finish

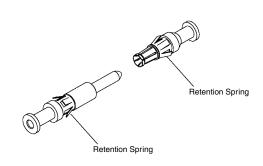
Body — Gold



Pin Part No. 1-194189-0



Socket Part No. 194245-1



Part		Contact	Use with	Dimension	Tooling Part Numbers		
No.	Type	Sequence	AWG	A	Crimp Hand Tool	Crimp Tool Positioner	Extraction Tool
1-194189-0	Pin	Second Mate	12-14	.100 2.55	M309	TP1124	356335-1
194245-1	Socket	_	12-14	.100 2.55	M309	TP1221	356335-1

Multimate Pin and Socket Contacts

The Multimate contacts are designed to fit into the 8-Position Module. Tyco Electronics offers many Type III+ contact wire sizes and finishes in order to fulfill most signal requirements. The Type III+ pin contacts are used in the third sequence mating cycle.

Type III+ Crimp Contacts

Contact Size — 16

Pin Diameter — .062 [1.57]

*Test Current — 13 amperes (Single contact, free-air test current; not to be construed as contact rating current. Use only for testing.)

Contact Finish:

A—.000015 [0.00038] gold on the electrical engagement area over .000050 [0.00127] nickel.

B—.000030 [0.00076] gold on the electrical engagement area over .000050 [0.00127] nickel.

C-Tin

*Note: Total current capacity of each contact in any given connector is dependent on the heat rise resulting from the combination of electrical loads of all contacts in the connector arrangement and the maximum ambient temperature in which the connector will be operating.

Material

Body — Brass

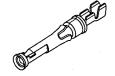
Retention Spring — Stainless Steel

Finish

See Table



Pin



91002-1 (For Insulation Dia. of .070 [1.78] or less) 200893-2 (For Insulation Dia. of .090 [2.29] max.)

Extraction Tool — Part No. 305183

Socket

Insertion Tools -

Wire S	ize Range	Ins. Dia.	Contact	Strip Form	Contact No.	Loose Piece	Contact No.
AWG	[mm²]	Range	Finish Code	Pin	Socket	Pin	Socket
			С	66425-6	66424-6	_	_
		.040060 1.02-1.52	Α	66425-7	66424-7	66429-3	66428-3
30-26	0.05-0.15	1.02 1.02	В	66425-8	66424-8	66429-4	66428-4
		.014030	Α	66393-7	66394-7	_	_
		0.36-0.76	В	66393-8	66394-8	66406-4	66405-4
			С	66106-6	66108-6	66107-2	66109-2
26-24	0.12-0.2	. 035055 0.89-1.4	Α	66106-7	66108-7	66107-3	66109-3
		0.00 1.4	В	66106-8	66108-8	66107-4	66109-4
		.040080 1.02-2.03	С	66102-7	66104-7	66103-2	66105-2
			Α	66102-8	66104-8	66103-3	66105-3
24-20	0.2-0.6		В	66102-9	66104-9	66103-4	66105-4
2120	0.2 0.0		С	66332-5	66331-5	66400-1	66399-1
		. 080100 2.03-2.54	Α	66332-7	66331-7	66400-3	66399-3
		2.00 2.01	В	66332-8	66331-8	66400-4	66399-4
			С	66098-7	66100-7	66099-2	66101-2
18-16	0.8-1.4	. 080100 2.03-2.54	Α	66098-8	66100-8	66099-3	66101-3
		2.00 2.04	В	66098-9	66100-9	66099-4	66101-4
			С	66359-6	66358-6	66361-2	66360-2
18-14	0.8-2	. 080100 2.03-2.54	Α	66359-9	66358-9	66361-3	66360-3
		2.00 2.04	В	1-66359-0	1-66358-0	66361-4	66360-4



Multimate Pin and Socket Contacts (Continued)

High Current Size 16 Contacts

The High Current Size 16 contact is a Multimate contact that can be used if higher current levels are required (10-15 amps). They fit into the 8-Position Module. The Pin contact can be used in the third sequence mating cycle. AMP P/N 194046-1 is a Multimate contact that is used in the fourth sequence mating cycle and mates with any Size 16 socket.



W O.	Contact Part Number						
Wire Size AWG	Pin		Socket				
	Loose Piece	Таре	Loose Piece	Tape			
14	193844-1	193844-2	193846-1	193846-2			
18-16	796964-1	796964-2	796966-1	796966-2			

See page 12 for additional information.

Size 16 Pin



Part	Contact	Use with	Tooling Pa	rt Numbers
No.	Sequence	AWG	Crimp Hand Tool	Turret
194046-1	Fourth Mate	24-20	601967-1	1-601967-6

Size 16 Solder Tail Pin

AMP P/N 194264-1 is a Multimate contact that is used as a High Current Solder Tail Pin Contact and mates with Socket P/N 193846-1.



Extraction Tool Part No. 305183



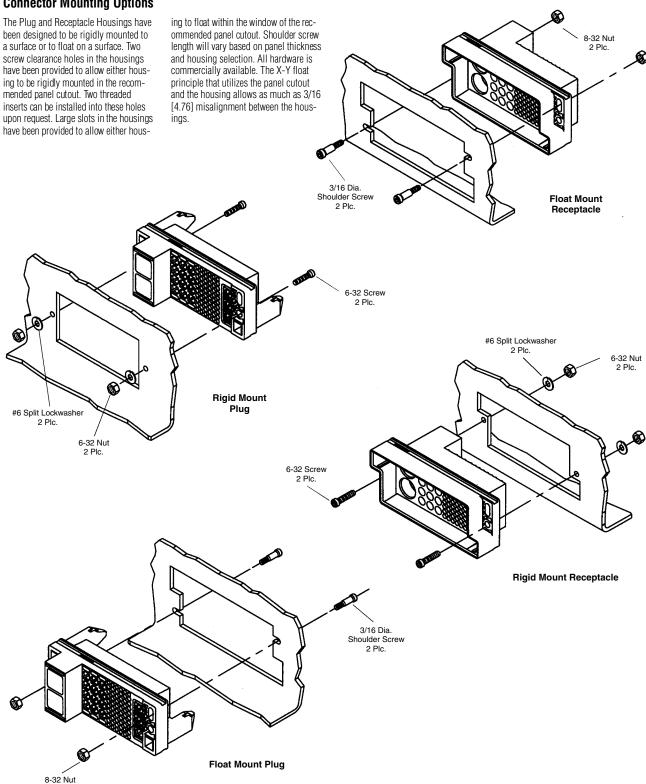
Part No. 194264-1

See page 12 for additional information.



Connector Mounting Options

been designed to be rigidly mounted to a surface or to float on a surface. Two screw clearance holes in the housings have been provided to allow either housing to be rigidly mounted in the recommended panel cutout. Two threaded inserts can be installed into these holes upon request. Large slots in the housings

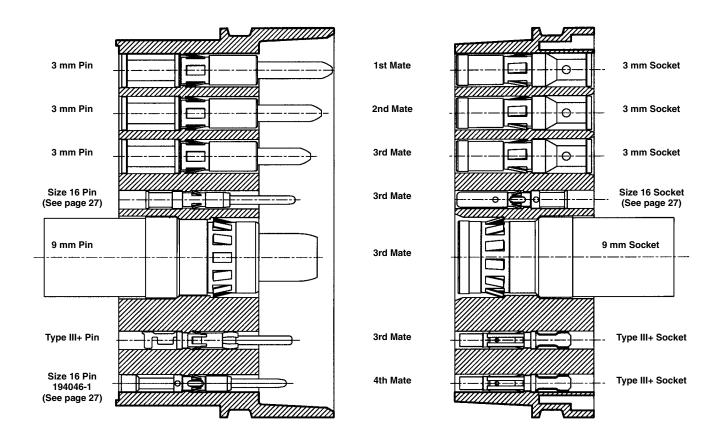


Panel cutout dimensions are shown on the customer drawing.



Contact Sequential Mating Cycle

A family of Pins have been designed to have four levels of sequence during the Plug and Receptacle mating cycle.





Fork Connectors

Thread Mount Fork

The Thread Mount Fork was developed to mount onto a plate or bus bar designed and fabricated by the customer. The Fork is rated at 84 amps (Upper Tolerance Limit) and accepts a .087 thick blade or circuit board. The anti-rotation pin is in place to help prevent the Fork from rotating while tightening the screw.

Material

Louvertac Bands — Copper Alloy

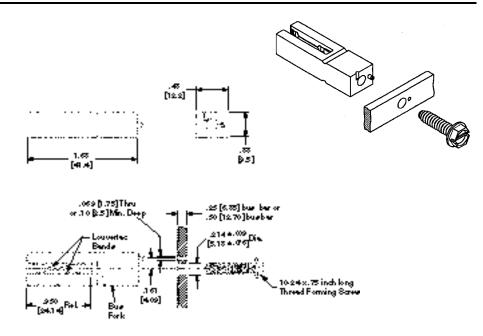
Screw — Steel

Finish

Fork - Silver

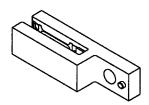
Louvertac Bands - Silver

Screw — Zinc



Part Number 194257-1

Right-Angle Thread Mount Fork



Material

Fork — Zinc Al Alloy

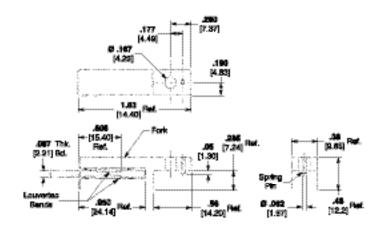
Louvertac Bands — Copper Alloy

Spring Pin — Stainless Steel

Finish

Fork - Silver

Louvertac Bands - Silver



Part Number 194305-1



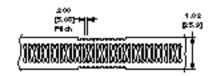
Louvertac Strip, Torsional Louver Type

The Torsional Louver Type Band was designed as an electrical interface that allows the transfer of high current and a more generous tolerance between mating surfaces. A strip can be sized with scissors in an on-site installation. They are available for use in flat and circular applications. A male band is used on the outside diameter of a pin. The female band is used on the inside diameter of a socket.

Material — Beryllium Copper Finish — See Tables

LAO .092 [2.27] Louver Height

Tooth Angle — 15° Minimum Diameter — 1.75 inches





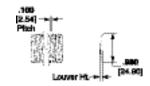
Part No.	Application	Material Thickness	Suggested Current Limit per inch	Finish
192000-2	Flat or Female	. 006 .15	150	Silver
192000-9	Flat or Female	.010 .25	250	Silver
192001-4	Flat or Male	.006 .15	150	Silver

LAOG

Louver Height — See Table

Tooth Angle — 45°

Minimum Diameter — 1.75 inches



Part No.	Application	Material Thickness	Suggested Current Limit per inch	Louver Height	Finish
192002-1	Flat or Female	.006 .15	300	. 105 2.67	Unplated
192002-2	Flat or Female	.006 .15	300	. 105 2.67	Silver
192002-3	Flat or Female	.010 .25	500	.110 2.79	Unplated

LAIA .050 [1.27] Louver Height

Tooth Angle — See Table Minimum Diameter — 1½ inches





Part No.	Application	Material Thickness	Suggested Current Limit per inch	Tooth Angle	Finish
192004-4	Flat or Female	. 004 .10	150	15°	Silver
192004-6	Flat or Female	.004 .10	150	45°	Silver
192004-8	Flat or Female	.006 .15	250	15°	Silver
1-192004-1	Flat or Female	. 006 .15	250	15°	Gold
1-192004-4	Flat or Female	. 006 .15	250	45°	Silver
192007-7	Flat or Male	. 006 .15	250	15°	Silver
192008-1	Flat or Male	.004 .10	150	45°	Silver

Notes: 1. Product will be sold by the foot except where length is specified.

- 2. Suggested current limits are application dependent.
- 3. Additional sizes are available upon request.



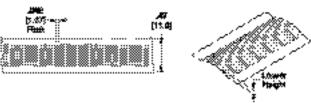
Louvertac Strip, Bridge Louver Type

The Bridge Louver Type Band was designed to transfer high currents in very small spaces. A strip can be sized with scissors in an on-site installation. They are available for use in flat and circular applications. A male band is used on the outside diameter of a pin. The female band is used on the inside diameter of a socket.

Material - Beryllium Copper



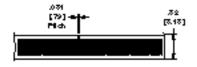
Minimum Diameter — 1 inch Suggested Current Limit Per Inch — 150 Amps Material Thickness — .006 [.15]



Part No.	Application	Finish
192038-6	Female	Silver
192039-5	Male	Silver

LAIV .026 [.66] Louver Height

Minimum Diameter — ¾ inch Suggested Current Limit Per Inch — 150 Amps Material Thickness — See Table





Part No.	Application	Finish	Material Thickness
1-192041-2	Female	Silver	.006 .15
192042-5	Male	Silver	.006 .15
192048-2	Male	Gold	.004 .10

LAV .022 [.56] Louver Height

Minimum Diameter—¾ inch Suggested Current Limit Per Inch—120 Amps Material Thickness—See Table





Part No.	Application	Finish	Material Thickness
1-192044-9	Female	Silver	. 005 .13
192045-5	Male	Silver	. 005 .13
192045-2	Male	Gold	.004 .10
1-192045-2	Male	Gold	.004 .10

Notes: 1. Product will be sold by the foot except where length is specified.

- 2. Suggested current limits are application dependent.
- 3. Additional sizes are available upon request.



Preformed Female Louvertac Bands

Female Torsional Formed Type LA1A/LA1B .050 [1.27] Louver Height

Material - Beryllium Copper

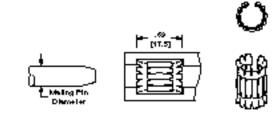
Finish — See Table

Tooth Angle—See Table

Louvertac Bands can be manufactured as preformed diameters. This will allow the insertion of the band into a socket.

The diameter indicated is the mating pin diameter that will be inserted into the socket assembly.

Consult Product Engineering for mounting details.



Part No.	Mating Pin Dia.	Material Thickness	Suggested Current Limit (A)	Finish	Tooth Angle	Band Type
4-192013-3	.312 [7.92]	.004 [.10]	150	Silver	15°	LA1A
4-192013-5	.312 [7.92]	.006 [.15]	250	Silver	15°	LA1A
5-192013-1	.355 [9.01]	.006 [.15]	275	Gold	15°	LA1A
5-192013-4	.375 [9.53]	.006 [.15]	300	Silver	15°	LA1A
5-192013-5	.394 [10.00]	.006 [.15]	325	Silver	15°	LA1A
5-192013-8	.434 [11.02]	.006 [.15]	350	Gold	15°	LA1A
5-192013-9	.437 [11.10]	.006 [.15]	350	Silver	15°	LA1A
6-192013-7	.472 [11.99]	.006 [.15]	375	Silver	15°	LA1A
6-192013-9	.472 [11.99]	.008 [.20]	375	Silver	15°	LA1A
7-192013-1	.500 [12.70]	.006 [.15]	400	Silver	15°	LA1A
7-192013-6	.551 [14.00]	.006 [.15]	450	Silver	15°	LA1A
8-192013-2	.625 [15.88]	.006 [.15]	500	Silver	15°	LA1A
8-192013-6	.625 [15.88]	.008 [.20]	475	Silver	15°	LA1A
8-192013-9	.685 [17.40]	.006 [.15]	550	Silver	15°	LA1A
9-192013-6	.750 [19.05]	.006 [.15]	600	Silver	15°	LA1A
192033-3	.750 [19.05]	.008 [.20]	600	Silver	15°	LA1A
1-192033-9	.875 [22.22]	.006 [.15]	675	Gold	15°	LA1A
2-192033-0	.875 [22.22]	.006 [.15]	700	Silver	15°	LA1A
2-192033-6	1.000 [25.40]	.006 [.15]	775	Silver	15°	LA1A
3-192033-4	1.250 [31.75]	.006 [.15]	975	Silver	15°	LA1A
5-192033-2	1.000 [25.40]	.008 [.20]	800	Silver	15°	LA1A
3-192013-8	1.187 [30.10]	.006 [.15]	950	Silver	45°	LA1B
5-192033-0	.812 [20.62]	.008 [.20]	625	Silver	45°	LA1B

Notes: 1. Suggested current limits are application dependent.

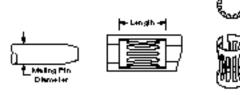
2. Additional sizes are available upon request.



Preformed Female Louvertac Bands (Continued)

Female Bridge Formed Type LAIII through LAVI

Material — Beryllium Copper Finish — See Table



Part No.	Mating Pin Dia.	Length	Material Thickness	Suggested Current Limit (A)	Finish	Band Type
1-192038-9	.125 [3.18]	.47 [11.9]	.004 [.10]	40	Nickel	LAIII
2-192038-8	.197 [5.00]	.47 [11.9]	.006 [.15]	90	Gold	LAIII
3-192038-7	.236 [6.00]	.47 [11.9]	.006 [.15]	100	Gold	LAIII
4-192038-0	.236 [6.00]	.47 [11.9]	.008 [.20]	120	Gold	LAIII
4-192038-1	.236 [6.00]	.47 [11.9]	.008 [.20]	120	Gold	LAIII
4-192038-8	.250 [6.35]	.47 [11.9]	.006 [.15]	110	Silver	LAIII
4-192038-9	.250 [6.35]	.47 [11.9]	.006 [.15]	110	Gold	LAIII
5-192038-4	.250 [6.35]	.47 [11.9]	.008 [.20]	125	Gold	LAIII
6-192038-0	.280 [7.11]	.47 [11.9]	.008 [.20]	165	Silver	LAIII
6-192038-1	.280 [7.11]	.47 [11.9]	.008 [.20]	125	Gold	LAIII
6-192038-2	.250 [6.35]	.47 [11.9]	.006 [.15]	125	Unplated	LAIII
6-192038-5	.315 [8.00]	.47 [11.9]	.008 [.20]	185	Silver	LAIII
6-192038-6	.315 [8.00]	.47 [11.9]	.008 [.20]	185	Gold	LAIII
7-192038-7	.394 [10.00]	.47 [11.9]	.008 [.20]	250	Silver	LAIII
8-192038-1	.437 [11.10]	.47 [11.9]	.008 [.20]	270	Silver	LAIII
8-192038-6	.472 [11.99]	.47 [11.9]	.008 [.20]	300	Silver	LAIII
9-192038-4	.500 [12.70]	.47 [11.9]	.008 [.20]	300	Tin	LAIII
192040-8	.375 [9.53]	.47 [11.9]	.008 [.20]	200	Gold	LAIII
2-192040-7	.250 [6.35]	.47 [11.9]	.006 [.15]	110	Gold	LAIII
2-192041-9	.025 [0.64]	.32 [8.13]	.005 [.13]	15	Gold	LAIV
4-192041-0	.062 [1.57]	.32 [8.13]	.006 [.15]	25	Silver	LAIV
4-192041-1	.062 [1.57]	.32 [8.13]	.006 [.15]	25	Gold	LAIV
4-192041-4	.080 [2.03]	.32 [8.13]	.006 [.15]	35	Gold	LAIV
5-192041-0	.093 [2.36]	.32 [8.13]	.005 [.13]	40	Gold	LAIV
5-192041-9	.100 [2.54]	.32 [8.13]	.006 [.15]	50	Gold	LAIV
6-192041-9	.125 [3.18]	.32 [8.13]	.006 [.15]	60	Gold	LAIV
7-192041-4	.157 [4.00]	.32 [8.13]	.006 [.15]	65	Gold	LAIV
7-192041-7	.157 [4.00]	.32 [8.13]	.006 [.15]	65	Silver	LAIV
7-192041-8	.157 [4.00]	.32 [8.13]	.006 [.15]	65	Gold	LAIV
8-192041-4	.157 [4.00]	.32 [8.13]	.008 [.20]	75	Gold	LAIV
8-192041-9	.173 [4.39]	.32 [8.13]	.006 [.15]	70	Gold	LAIV
192043-6	.218 [5.54]	.32 [8.13]	.006 [.15]	95	Silver	LAIV
1-192043-5	.254 [6.45]	.32 [8.13]	.006 [.15]	110	Silver	LAIV
1-192043-6	.250 [6.35]	.32 [8.13]	.006 [.15]	120	Gold	LAIV
2-192043-0	.280 [7.11]	.32 [8.13]	.006 [.15]	130	Gold	LAIV
2-192043-7	.315 [8.00]	.32 [8.13]	.006 [.15]	165	Silver	LAIV
4-192043-5	.375 [9.53]	.32 [8.13]	.006 [.15]	175	Gold	LAIV
5-192043-0	.375 [9.50]	.32 [8.13]	.007 [.18]	175	Tin	LAIV
6-192043-7	.602 [15.30]	.32 [8.13]	.006 [.15]	285	Gold	LAIV
7-192043-2	.125 [3.18]	.32 [8.13]	.006 [.15]	60	Silver	LAIV
9-192043-3	.157 [4.00]	.32 [8.13]	.006 [.15]	65	Silver	LAIV
9-192043-6	.725 [18.40]	.32 [8.13]	.006 [.15]	350	Silver	LAIV
4-192044-1	.030 [0.76]	.20 [5.10]	.005 [.13]	13	Gold	LAV
4-192044-2	.030 [0.76]	.20 [5.10]	.005 [.13]	11	Unplated	LAV
4-192044-4	.055 [1.40]	.20 [5.10]	.005 [.13]	20	Gold	LAV
4-192044-7	.060 [1.54]	.20 [5.10]	.004 [.10]	22	Gold	LAV
5-192044-6	.062 [1.57]	.20 [5.10]	.005 [.13]	25	Gold	LAV
5-192044-8	.065 [1.65]	.20 [5.10]	.005 [.13]	23	Unplated	LAV
6-192044-0	.080 [2.03]	.20 [5.10]	.004 [.10]	30	Silver	LAV
6-192044-4	.080 [2.03]	.20 [5.10]	.005 [.13]	30	Gold	LAV

Notes: 1. Suggested current limits are application dependent.

2. Additional sizes are available upon request.



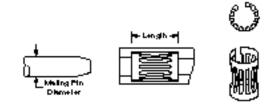
Preformed Female Louvertac Bands (Continued)

Female Bridge Formed Type LAIII through LAVI

(Continued)

Material — Beryllium Copper

Finish — See Table



Part No.	Mating Pin Dia.	Length	Material Thickness	Suggested Current Limit (A)	Finish	Band Type
6-192044-6	.080 [2.03]	.20 [5.10]	.008 [.20]	30	Gold	LAV
7-192044-1	.093 [2.36]	.20 [5.10]	.005 [.13]	35	Gold	LAV
8-192044-1	.125 [3.18]	.20 [5.10]	.004 [.10]	45	Gold	LAV
8-192044-3	.125 [3.18]	.20 [5.10]	.005 [.13]	45	Silver	LAV
8-192044-4	.125 [3.18]	.20 [5.10]	.005 [.13]	45	Gold	LAV
8-192044-7	.125 [3.18]	.20 [5.10]	.005 [.13]	45	Unplated	LAV
192046-6	.172 [4.40]	.20 [5.10]	.006 [.15]	65	Gold	LAV
1-192046-6	.225 [5.70]	.20 [5.10]	.006 [.15]	85	Gold	LAV
1-192046-9	.250 [6.35]	.20 [5.10]	.006 [.15]	110	Gold	LAV
2-192046-0	.250 [6.30]	.20 [5.10]	.006 [.15]	95	Tin	LAV
3-192046-0	.400 [10.2]	.20 [5.10]	.005 [.13]	150	Gold	LAV
5-192046-0	.750 [19.0]	.20 [5.10]	.005 [.13]	285	Gold	LAV
5-192046-9	.134 [3.40]	.20 [5.10]	.006 [.15]	50	Gold	LAV
1-192047-4	.040 [1.00]	.10 [2.54]	.004 [.10]	15	Gold	LAVI
1-192047-9	.062 [1.60]	.10 [2.54]	.004 [.10]	22	Gold	LAVI
3-192047-7	.125 [3.20]	.10 [2.54]	.004 [.10]	45	Gold	LAVI
5-192047-1	.256 [6.50]	.10 [2.54]	.004 [.10]	95	Gold	LAVI
5-192047-3	.272 [6.90]	.10 [2.54]	.004 [.10]	65	Gold	LAVI
7-192047-5	.256 [6.50]	.10 [2.54]	.004 [.10]	95	Unplated	LAVI

Preformed Male Louvertac Bands

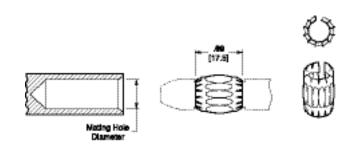
Male Torsional Formed Type LA1AS/LA1BS

Material—Beryllium Copper **Finish** — See Table

Tooth Angle — See Table

Louvertac Bands can be formed into a "male" shape for use on a pin. Selection begins with the amperage requirement and then the mating hole diameter.

Consult Product Engineering for mounting details.



Part No.	Mating Hole Dia.	Material Thickness	Suggested Current Limit (A)	Finish	Tooth Angle	Band Type
192007-9	.312 [7.92]	.006 [.15]	200	Silver	15°	LA1AS
1-192007-9	.620 [15.7]	.006 [.15]	425	Silver	15°	LA1AS
2-192007-5	.750 [19.0]	.008 [.20]	550	Silver	15°	LA1AS
3-192007-1	1.000 [25.4]	.006 [.15]	750	Silver	15°	LA1AS
192008-6	.500 [12.7]	.006 [.15]	350	Silver	45°	LA1BS
1-192008-3	.750 [19.0]	.008 [.20]	550	Silver	45°	LA1BS
1-192008-5	.781 [19.8]	.006 [.15]	575	Silver	45°	LA1BS
2-192008-1	.875 [22.22]	.008 [.20]	650	Silver	45°	LA1BS
3-192008-4	1.197 [30.4]	.008 [.20]	900	Silver	45°	LA1BS
4-192008-2	1.450 [36.8]	.006 [.15]	1100	Silver	45°	LA1BS

Notes: 1. Suggested current limits are application dependent.

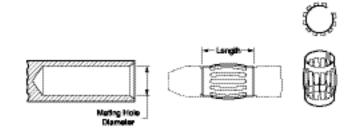
2. Additional sizes are available upon request.



Preformed Male Louvertac Bands (Continued)

Male **Bridge Formed Type LAIIIS through LAVIS**

Material — Beryllium Copper Finish — See Table



Part No.	Mating Hole Dia.	Length	Material Thickness	Suggested Current Limit (A)	Finish	Band Type
1-192039-7	.157 [4.0]	.470 [11.9]	.008 [.20]	75	Gold	LAIIIS
2-192039-1	.250 [6.35]	.470 [11.9]	.008 [.20]	130	Silver	LAIIIS
2-192039-3	.248 [6.3]	.470 [11.9]	.008 [.20]	130	Silver	LAIIIS
2-192039-7	.311 [7.9]	.470 [11.9]	.008 [.20]	175	Unplated	LAIIIS
2-192039-9	.311 [7.9]	.470 [11.9]	.008 [.20]	175	Silver	LAIIIS
3-192039-0	.311 [7.9]	.470 [11.9]	.008 [.20]	175	Gold	LAIIIS
5-192039-3	.236 [6.0]	.470 [11.9]	.008 [.20]	120	Nickel	LAIIIS
5-192039-4	.157 [4.0]	.470 [11.9]	.008 [.20]	75	Nickel	LAIIIS
1-192042-5	.080 [2.0]	.320 [8.13]	.005 [.12]	30	Nickel	LAIVS
2-192042-5	.157 [4.0]	.320 [8.13]	.006 [.15]	65	Unplated	LAIVS
2-192042-8	.157 [3.99]	.320 [8.13]	.006 [.15]	60	Gold	LAIVS
4-192042-8	.500 [1.27]	.320 [8.13]	.005 [.12]	235	Unplated	LAIVS
6-192042-6	.368 [9.38]	.320 [8.13]	.004 [.10]	170	Unplated	LAIVS
6-192042-7	.375 [9.53]	.320 [8.13]	.006 [.15]	175	Tin	LAIVS
6-192042-8	.375 [9.53]	.320 [8.13]	.006 [.15]	175	Gold	LAIVS
2-192045-3	.250 [6.35]	.200 [5.10]	.006 [.15]	95	Gold	LAIVS
192048-6	.051 [1.3]	.100 [2.54]	.004 [.10]	17	Gold	LAVIS
1-192048-1	.127 [3.23]	.100 [2.54]	.004 [.10]	22	Gold	LAVIS
2-192048-4	.156 [3.96]	.100 [2.54]	.004 [.10]	65	Gold	LAVIS

Notes: 1. Suggested current limits are application dependent.
2. Additional sizes are available upon request.



Part Number Index

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Engineering Notes

