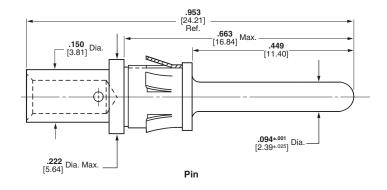
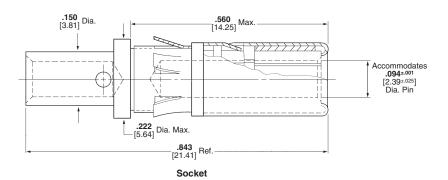


Power Contacts

Type I, Crimp, Snap-In







Material

Contact Body—Bronze
Retention Spring—Beryllium copper

Finish

Contact Body—.000030 [0.00076] gold over .000050 [0.00127] nickel. Gold thickness controlled on socket O.D.

Retention Spring—Nickel plated

Related Product Data

Application Tooling—Pages 29, 30 **Technical Documents**

108-10108 Product Specification 114-10037 Application Specification

Size 12-Pin Diameter .094 [2.39] (Test Current, 23 Ampere)‡

Wire Size		Loose Piece		Tooling Part No.		
Range		Contact No.		Dies for	Hand	
AWG	[mm ²]	Pin	Socket	Pneumatic Tool*	Tool	
18-16	0.8-1.4	202421-1	202418-1	90122	90121	
14-12	2-3	202422-1	202417-1	90122	90121	

^{*}Use hand actuated Power Unit Part No. 189721-2 or foot actuated Power Unit Part No. 189722-2. Both units require "C" Head Die Set Adapter Part No. 318161-1 and an Adapter Holder Part No. 356304-1 (with ratchet) or Part No. 189928-1 (without ratchet). Request Catalog 124208 for more information on the 626 Pneumatic Tool System.

Extraction Tool Part No. 305183-8 (Instruction Sheet 408-1216)

[‡]Single contact, free-air test current; not to be construed as contact rating current. Use only for testing. Refer to contact current carrying capability information, page 3.



Power Contacts—High Current Upgrade (Continued)

Type II and Type III+, Size 16

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 a Tyco Electronics 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





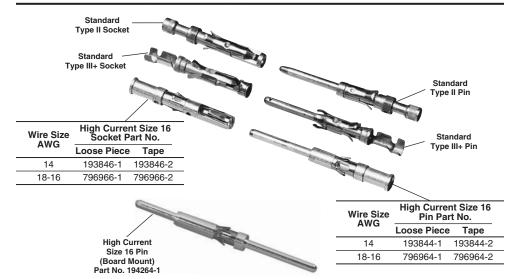
Plug (for Sockets)













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

TEMPERATURE RISE VS. CURRENT

Current Rating for 30°C Temperature Rise 100% Energized

6 Circuit Metrimate Connector (Wire-to-Wire)



TEMPERATURE RISE

Ô

(DEGREES



CURRENT (AMPS)

CRIMPED CONTACTS



30

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. 6. Additional information on Econoseal connectors is available in Catalog 82057.
- 7. Additional information on LGH connectors is available in Catalog 82024.



Power Contacts (Continued)

.125 POWERBAND Contacts

Pin Diameter—.125 [3.175] Test Current—50 Amperes‡

Material and Finish

Contact - Copper

Spring — Beryllium copper

Plating Code

A. 0.00508 [.000200] min. silver on contact area, 0.00127 [.000050] min. on remainder, all over 0.00127 [.000050] min. nickel underplate

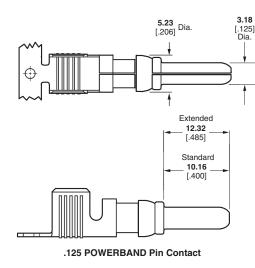
B. 0.00076 [.000030] min. gold on contact area, gold flash on remainder, all over 0.00127 [.000050] min. nickel underplate

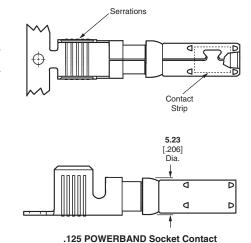
Related Product Data

Application Tooling—Pages 29, 30 **Technical Document**—Page 4

Extraction Tool Part No. 318813-1

(Instruction Sheet 408-4374)





Wire Size AWG/mm² Contact Finish			Contact Part No.				Tooling Part No.**	
			Strip		Loose Piece		Heavy Duty Miniature (HDM) Applicators (for AMP-O-LECTRIC	
			Pin	Socket	Pin	Socket	Model G Machine, Base Part No. 354500)	or 626 Pneumatic Tool System*
	Α	Standard	213845-1	213847-1	213845-3	213847-3		
14-12	В	Standard	213845-2	213847-2	213845-4	213847-4	680195-3	356612-1
2-3	A	Extended ¹	213845-5	_	213845-7	_	680195-3	
	В	Extended ¹	213845-6	_	213845-8			
	Α	Standard	213841-1	213843-1	213841-3	213843-3		050011 1 (0 A)MO)
10-8	В	Standard	213841-2	213843-2	213841-4	213843-4	680197-3	356611-1 (8 AWG)
5-8	A	Extended ¹	213841-5	_	213841-7		660197-3	356611-2 (10 AWG)
	В	Extended ¹	213841-6	_	213841-8			

¹For use in Metrimate Drawer Connectors listed in chart below and Two-Piece Sealed Circular Plastic Connectors (CPC), Series 5 and 6.

Note: Standard Size 8, High Current Size 8 upgrade, and .125 POWERBAND contacts are not intermateable.

.125 POWERBAND Metrimate Drawer Connectors

No. of	Housing Part No.			
Pos.	Plug	Receptacle		
8	213886-1**	213500-3**		

Color: blue

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

Refer to contact current carrying capability information, page 3.

^{*}A typical 626 Pneumatic Tool System requires: a power unit (Part No. 189721-2, hand actuated or 189722-2, foot actuated), an adapter holder (Part No. 356304-1, with ratchet), and "C" Head adapter Part No. 318161-1.

^{**}There are power options available for these tools/dies. See Battery Powered Crimp tool Kit and SDE Electric Terminator on page 30.

Note: All part numbers are RoHS compliant.

^{*}For use with .125 POWERBAND contacts (Extended Pin Length), listed above.

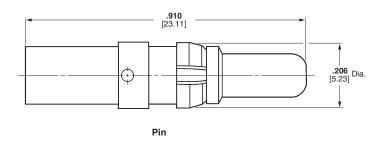


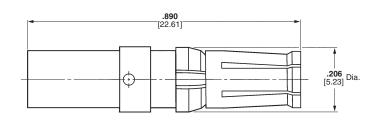
Power Contacts (Continued)

Standard, Size 8, 4/8 Indent Crimp









Socket

Note: Standard Size 8, High Current Upgrade Size 8 and .125 POWERBAND contacts are **not** intermateable.

Material

Contact Body—Copper alloy **Retention Clip**—Phosphor bronze

Finish

Contact Body—.000050 [0.00127] gold over .000050 [0.00127] nickel Retention Spring—Nickel plated

Related Product Data

Technical Documents

108-10045 Product Specification 114-10014 Application Specification

Power Contacts, Standard, Size 8 (Test Current 50 Amperes)‡

Wire Range		Con	tacts	Crimping Tools	
AWG	[mm ²]	Pin	Socket	Tool No.	Positioner
18-16	0.8-1.4	213567-1	212014-1	608668-1	(P) SP867 (S) 608668-2
14-12	2-3	213662-1	212008-1	608651-1	(P) SP867 (S) 608651-2
10	5	213740-1	213737-1	608651-1	(P) 608651-3 (S) 608651-2
8	8	213552-2	213750-1	608651-1	(P) 608651-3 (S) 608651-2

[‡]Single contact, free-air test current; not to be construed as contact rating current. Use only for testing. Refer to contact current carrying capability information, page 3.



Power Contacts—High Current Upgrade (Continued)

Metrimate Drawer Connector, Size 8

The Louvertac bands have the versatility of being designed into contact dimensions used in existing Tyco Electronics 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

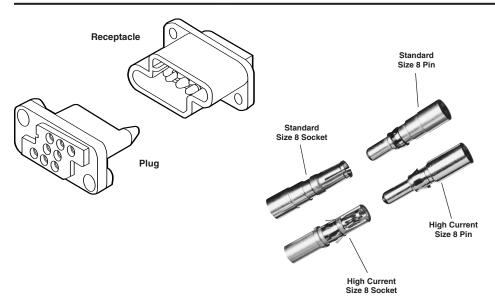
- Recognized under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Certified by Canadian
 Standards
 Association,
 File No. LR7189A

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

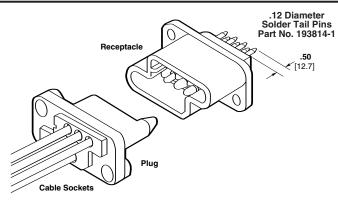


High Current Contacts

Wire Size	Contact Part Numbers		Crimo Taola	
		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

†Daniels Manufacturing Corp., Orlando, FL **Note:** All part numbers are RoHS compliant.



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

Note: All part numbers are RoHS compliant.

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.

Catalog 65910

Revised 7-07



Power Contacts (Continued)

Type XII, Precision Formed, Crimp, Snap-In

Material

Copper

Finish

A-Tin-lead

B—.000030 [0.00076] selective gold over .000030 [0.00076] nickel **C**—.000100 [0.00254] silver plated contacts with lubricant added

Test Current Rating

Silver or Gold-35 amperes ‡

Tin Lead—15 amperes ‡

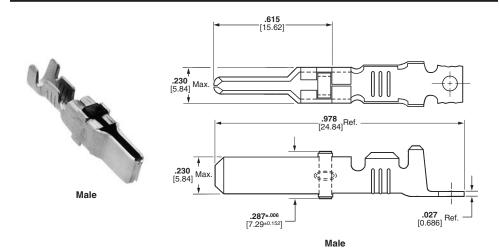
‡Single contact, free-air test current; not to be construed as contact rating current. Use only for testing. Refer to contact current carrying capability information, page 3.

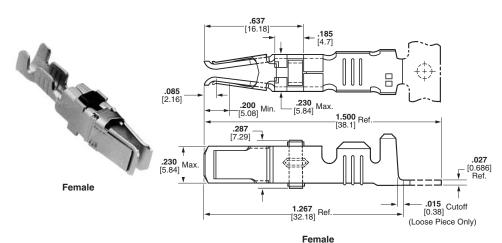
Related Product Data

Application Tooling—Pages 29, 30 **Technical Documents**—Page 4



Extraction Tool Part No. 91019-3





Tooling** Strip Form Contact Part Nos. **Loose Piece** Wire Size Die Set for Ins. Heavy Duty Miniature*** Contact **Heavy Duty** Hand Tool 69710-1 or 626 Pneumatic Contact Standard*** Range¹ Dia. Part Nos. Miniature Range Finish Male Female Male Male Applicator Female Female **AWG** mm² **Tool System** 66255-1♦ 66740-7♦ 66255-5♦ 1-66740-2♦ 66261-1♦ 66740-8♦ Α 66256-12♦ 66256-52♦ 66262-12♦ 16 1.25-1.4 90145-2^{3,7}♦ 66255-2♦ 66740-5♦ 66255-6♦ 1-66740-1 66261-2♦ 66740-6♦ **.135-.160** 3.43-4.06 567455-□***♦ В and 14-12 and 90145-1^{4,7}♦ 66256-22 66256-42**♦** 66262-22♦ 66255-7♦ 66255-8♦ 66261-4♦ 66740-1♦ 66740-9♦ 66740-2 C⁵ 66256-62 **♦** 66256-72♦ 66262-42♦ 66253-5♦ 66741-8♦ 66253-1♦ 66741-7♦ 1-66741-2 66259-1♦ Α 66254-12♦ 66260-12♦ 66253-2♦ 66741-5♦ 66253-6♦ 1-66741-1 66259-2 66741-6♦ .190-.220 10 5-6 В 567021-□***◆ 90140-17♦ 66254-2²♦ 66254-5♦ 66260-22¢ 66253-4♦ 66741-1♦ 66253-8♦ 66741-9♦ 66259-4♦ 66741-2♦ C⁵ 66254-4²♦ 66260-42

Note: All part numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

¹Wire strip length—.281 [7.14].

²Ground contact

³Die insert **Part No. 90145-2** is for crimping 16 AWG [1.25-1.4 mm²] wire.

⁴Die insert **Part No. 90145-1** is for crimping 14-12 AWG [2-3 mm²] wire.

⁵Recommended for high current/vibration applications where fretting corrosion is a problem.

⁷Die Set requires "C" Head Adapter **Part No. 318161-1**; Adapter Holder **Part No. 356304-1** (with ratchet) or **189928-1** (without); and Power Unit **Part No. 189721-2** (hand actuated) or **189722-2** (foot actuated).

Extraction Tool Part No. 91019-3
**There are power options available for these tools/dies. See Battery Powered Crimp tool Kit and SDE Electric Terminator on page 30.

^{***}Call Technical Support at 1-800-522-6752 for Automatic Machine Applicator Part Numbers.



Power Contacts—High Current Upgrade (Continued)

Type XII, Screw Machined

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.



* Not recommended for CPC connectors.

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

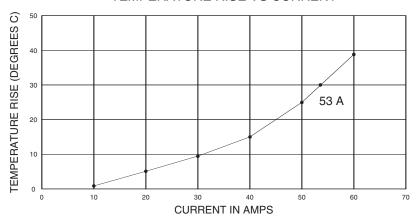
Current-Carrying Capacity. The graph shows current-carrying capacity versus temperature rise for a fully energized 3 position CPC plug P/N 206037-2 and receptacle P/N 206036-2. These initial representative amperage ratings were conducted with 8 AWG wires that were 3 feet long.

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

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.

- ${\hbox{\bf 2. Additional information on CPC and CMC connectors is available in Catalog~82021.}\\$
- 3. Additional information on G Series connectors is available in Catalog 82046.
- 4. Additional information on M Series connectors is available in Catalog 82003.
- 5. Additional information on LGH connectors is available in Catalog 82024.

Note: All part numbers are RoHS compliant.

Catalog 65910

Revised 7-07

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