



Introduction

As the world's leading manufacturer of electrical/electronic connecting devices. Tyco Electronics produces a wide assortment of connector contacts. Included in this catalog is an array of the most popular pin and socket type contacts for signal and power, for coaxial cable, and posted versions for backpanel wiring applications. Also included is information on available application tooling to meet your production requirement.

The contacts present in this catalog were specifically designed for AMP M Series, CPC (Circular Plastic Connectors), Circular Metal-Shell, Metrimate (True Metric Dimensions), and "G" Series connectors.

How to choose the correct connector/contact combination.

Choosing the correct connector/contact combination is essential to the proper function of any AMP connector. A customer must first evaluate each individual application with regards to wire size(s), number of circuits, available space, and fastening method. The customer must then consider the following factors to make the right selection of connector/contact/ hardware:

a. Connector Type. This
 decision is based on the
 selected contact types,
 coupling method, circuit
 density requirements
 and, if posted connectors are desired, in-plant
 production capabilities of
 wiring connectors using
 hand tools or semiautomatic tooling.

b.	Contact Type. This deci-
	sion is based on wire
	size(s) and the reliability
	and cost requirements of
	an application, as well as
	the customer's in-plant
	production capabilities.

 c. Hardware Selection. This decision is based on the connector type, and the application requirements for fastening, protection, shielding, guiding, strain relief and keying.

For specific information on these connectors and associated hardware, refer to the following catalogs:

- Catalog 82003—AMP M Series Pin and Socket Connectors
- Catalog 82021—AMP CPC (Circular Plastic) and Metal-Shell CPC Pin and Socket Connectors
- Catalog 82045—AMP Metrimate Pin and Socket Connectors
- 4. Catalog 82046—
 "G" Series Modular Connectors

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Need more information? Call Technical Support: 1-800-522-6752.

The Center is staffed with specialists well versed in all AMP products and application tooling. The Center can provide you with:

- Technical Support
- Catalogs
- Technical Documents
- Product Samples
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Front Cover: CPC Connectors, Metrimate Connectors, M Series Connectors, 20 DF Contacts, Type II Contacts, Type III+ Contacts, Subminiature Coaxial Contacts, Miniature Coaxial Contacts, Type I Contacts, Type XII Contacts, Size 8 Contacts



Current Carrying Capabilities

Current Carrying Capabilities

The total current capacity of each contact in a given connector is dependent upon the heat rise resulting from the combination of electrical loads of the contacts in the connector arrangement and the maximum ambient temperature in which the connector will be operating. Caution must be taken to ensure that this combination of conditions does not cause the internal temperature of the connector to exceed the maximum operating temperature of the housing material. Several variables which must be considered when determining this maximum current capability for your application

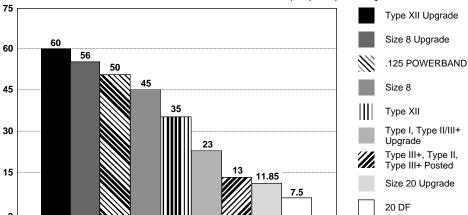
- Wire Size Larger wire will carry more current since it has less internal resistance to current flow and generates less heat. The wire also conducts heat away from the connector.
- Connector Size —In general, with more circuits in a connector, less current per contact can be carried.
- Current Load Distribution —
 Spreading those lines with greater current loads throughout the connector, particularly around the outer perimeter, will enhance heat dissipation.
- Ambient Temperature —With higher ambient temperatures, less current can be carried.

Current Rating Verification Can a contact rated at 10 amperes carry 10 amperes?

Maybe yes, but probably not. The reason lies in the test conditions used to rate the contact. If these conditions do not adequately reflect the application conditions, the actual allowable current levels may be lower than specified levels. For example, many manufacturers, including Tyco, test a single contact in air. This gives an accurate measure of the basic current-carrying capacity of the contact. Use the contact alone in air and it can certainly carry 10 amperes. Use it in a multi-position connector surrounded by other currentcarrying contacts or in high ambient temperatures, and the contact should carry less current.

Similarly, as the contact ages and stress relaxation, environmental cycling, and other degradation factors take their toll, the contact's current-carrying capacity decreases. A prudent design must set current levels for such end-of-design-life (EODL) conditions.

CONTACT CURRENT GUIDE Maximum Current (Amperes) for Largest Wire Size



Practical current-carrying capacity is not an absolute, but an application-dependent condition.

New Method Simplifies Ratings

To help the designer set the appropriate current level, Tyco Electronics has developed a method of specifying current-carrying capacity. This method takes into account the various application factors that influence current rating.

The method can be summarized as follows:

- The contact is aged to EODL conditions by durability cycling, thermal cycling, and environmental exposure.
- The contact's resistance stability is verified.
- The current necessary to produce the specified temperature rise is measured. This T-rise is usually 30°C.
- A rating factor is determined to allow derating of multiple contacts in the same housing and for different conductor

Temperature

One other factor influencing current levels is the maximum operating temperature, for example, 105°C. If the application has a high ambient temperature (over 75°C) the contact's T-rise is limited by the maximum operating temperature. For example, an application temperature of 90°C limits the contact T-rise to 15°C. Since current produces heat (the I²R law), the current must be lowered to limit the T-rise.

A contact's T-rise depends not only on its I²R Joule heating, but also on its ability to dissipate the heat. Consider a contact in a multi-contact housing. Joule heating in multiple contacts will raise the local ambient temperature. Since the contact will not be able to dissipate its own heat

as well by convection, the maximum T-rise will be realized at a lower current level. Consequently, the allowable current level must be lower to maintain an acceptable T-rise.

For a given connector, the current level will be set by the loading density. A connector containing 50% current-carrying contacts will permit higher currents (per contact) than a connector will at 75% loading. The loading percentage assumes an even distribution of contacts within the housing. If all 10 contacts are grouped together in one section of a 20-position connector, the loading density may approach 100%.

The Importance of EODL

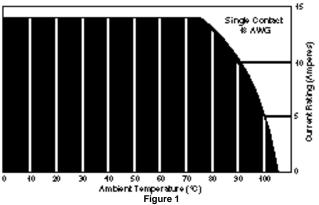
As stated, T-rise in a contact depends on both resistance and current. As it ages, a contact's resistance will increase. The contact designer will specify a maximum resistance for the contact, this level is the end-of-design-life resistance. Before the contact is tested for current, Tyco subjects it to a sequence

of tests that exercises the major failure mechanisms and thereby simulates EODL conditions. Conditioning includes mating cycling, industrial mixed-flowing gases, humidity and temperature cycling, and vibration to sequentially introduce wear, corrosion, stress relaxation, and mechanical disturbance.

Presentation

The presentation of currentcarrying capacity in AMP product specifications includes two parts:

■ First, a base curve showing current levels versus T-rise for a single circuit and the largest wire size. This represents the maximum current capacity of the contact. The curve is usually flat up to 75°C ambient and then drops off. Up to 75°C, the 30°C T-rise limits the amount of current, and above 75°C the current must be reduced to keep the combination of ambient temperature and T-rise from exceeding the maximum operating temperature of 105°C.



Graph shows the relationship between base current, ambient temperature, and contact T-rise.



Current Carrying Capabilities (Continued)

 Next are rating factors, a table of multipliers to account for connector loading and for smaller wire sizes. The designer first determines the base current for the ambient conditions of the application; then multiplies this base cur-rent by the rating factors to find the current level for the application's loading factor and wire size.

Practical Values

The current-rating method gives designers practical values applicable to their applications. While the specified current levels for a contact may be lower than for other testing methods, they are more realistic and simplify the system design process

"Spec-manship" is replaced by a realistic assessment of the current-carrying capacity of a contact under varying conditions of temperature, connector loading, and wire size.

Connector/Contact **Acceptability**

As previously stated, choosing the correct connector/contact combination is fundamental to the successful function of all connectors. The Selection Chart shown below, is designed to simplify your choice of connectors and their acceptable contacts. Once you have selected the wire size, current-carrying capacity need, number of positions required, and the type of contacts needed in your choice of connector, refer to this matrix for a quick look at exactly what is acceptable in a given connector type.

An Example:

To demonstrate the method of specifying current, consider the following application conditions; an ambient temperature of 65°C, a 50% loading of con-

- 65°C, a 50% loading of contacts in the housing, and 20 AWG [0.6mm²] wire.

 From Figure 1, the base current rating is 14 ampere with 18 AWG [0.8mm²] wire.

 Figure 2, the rating factor for 50% loading and 20 AWG [0.6m²] wire is 0.68
- 50% loading and 20 Awa [0.6mm²] wire is 0.68. The specific rating for this application is the product of the base rating and the rating
- factor: 14 x 0.68 = 9.5 ampere Each of the contacts can
- carry 9.5 ampere. However, if the ambient temperature is 80°C the allowable T-rise becomes 25°C. The base current must be lowered to 12.8 ampere so that the 105°C maximum operating temperature is not exceeded. The current rating then becomes: 12.8 x 0.68 = 8.7 ampere.

Technical Documents

Technical Documents consist of Product Specifications and Application Specifications. Product Specifications define the performance characteristics of the product; i.e., Current Rating, Temperature Rating etc. They are intended for the Design or Component Engineer. Application Specifications describe how the product is to be applied; i.e., Crimping, Assembling, etc. They are intended for Manufacturing and Operation/ Set Up Personnel. Where Application Specifications are not available, an Instruction Sheet is provided. Additional Instruction Sheets on the product may be available. Please contact Technical Support: 1-800-522-6752.

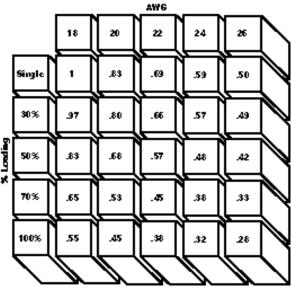


Figure 2

Rating factors allow the base current to be adjusted for various connector loading and wire sizes.

Technical Document Selection Chart

Contact Type	Product Specifications	Application Specifications	Instruction Sheet
20 DF	108-40005	114-10000 114-40030	_
Type I	108-10108	114-10037	_
Type II	108-10039	114-10026	_
Type III+	108-10042	114-10004	_
Type VI	108-10038	114-10007	_
Type XII	108-10037	114-10005	_
M Series Posted	108-10042	_	408-09155
.125 POWERBAND	_	114-10043	_
Size 8	108-01317	114-10014	_
Size 8 Upgrade	108-1449	_	_
Mini Coax	108-12021	_	408-1770
Sub-Mini Coax	108-12008 108-12011	_	408-2024-3

Contact Selection Chart

Connector Type	20 DF & Size 20 Upgrade	Type I	Type II	Type III+ & Type II/III+ Upgrade	Posted Type III+	Type XII & Type XII Upgrade	.125 POWERBAND	Size 8 &Size 8 Upgrade	Mini-Coax	Sub-Mini Coax
Metrimate			~	~	~					
Metrimate Drawer			~	~	~			~		
Metrimate Drawer (.125 POWERBAND)							~			
CPCSeries 1			~	V	V					~
CPC Series 2	V									
CPC Series 3						~				
CPC Series 4			~	V		~				~
CPCSeries 5							V			
CPCSeries 6			~	V			~			
M Series			~	~	V					~
M Series Special		~	~	~	~	~			~	~
"G" Series		~	~	<i>V</i>		~			~	



Signal Contacts

Type III+, Crimp, Snap-In, Size 16

Precision formed pin and socket contacts in Size 16. They are used in M Series, Special M Series, "G" Series, Metrimate, Metrimate Drawer, and CPC Series 1 and 4 connectors. Contacts feature a high normal force which provides a low resistance in significant applications such as dry circuit signal conditions. Mating entry is closedended to prevent damage from stubbing due to misalignment. Stainless steel spring provides superior normal force and retention in the housing. Tyco Electronics proprietary gold plating process is designed so that specified plating thicknesses are controlled on the inside of the socket, which is the critical contact mating area. The contacts are formed from brass. Single contact rating is 13 amperes at 30°C T-Rise.

See page 9 for product details.

Type III+, Solder Type, Size 16

As with the crimp snap-in Type III+, these precision formed solder-type contacts are also used in M Series, Special M Series, Metrimate, Metrimate Drawer, and CPC Series 1 and 4 connectors. Contacts feature a high normal force which provides a low resistance in significant applications, such as dry circuit conditions. A preformed wire barrel accepts both stranded and solid wire, while the preformed insulation barrel provides strain relief for various wire insulation thicknesses. Mating entry is closed-ended to prevent damage from stubbing due to misalignment. A stainless steel spring provides superior normal force and retention in the housing. Tyco Electronics proprietary gold plating process is designed so that specified plating thicknesses are controlled on the inside of the socket, which is the critical contact area. Single contact current rating is 13 amperes at 30°C Temperature Rise.

See page 10 for product details.

Type III+, Solder Tab, Size 16

A companion contact style to the crimp snap-in and solder-type, the Type III+ Solder Tab is compatible with the same AMP connector families, and features high normal forces to provide a low resistance in significant applications. A pre-crimped solder tab with slot accepts various sizes of solid and stranded wire. Mating entry is closed-ended to prevent stubbing due to misalignment. A stainless steel spring provides superior normal force and retention in the housing. Tyco Electronics proprietary gold plating process is designed so that specified plating thicknesses are controlled on the inside of the socket, which is the critical contact area. Single contact current rating is 13 amperes at 30°C Temperature Rise.

See page 11 for product details.



Type III+, Posted Version, Size 16

The last member of the Type III+ family of contacts, the posted version is compatible with M Series, Special M Series, Metrimate, Metrimate Drawer, and CPC Series 1 connectors. Precision formed, they are pre-crimped to various post configurations including those that accept TERMI-POINT Clip or wire-wrap type terminations. Contacts feature high normal force which provides a low resistance in significant applications. Mating entry is closed-ended to prevent damage from stubbing due to misalignment. A stainless steel spring provides superior normal force and retention in the housing. Tyco Electronics proprietary gold plating process is designed so that specified plating thicknesses are controlled on the inside of the socket, which is the critical contact mating area. Contacts are formed from brass. Single contact current rating is 13 amperes at 30°C Temperature Rise.

See page 12 for product details.

Type II, Crimp, Snap-In, Size 16

Precision screw-machined pin and socket contacts, they are used in M Series, Special M Series, "G" Series, Metrimate, Metrimate Drawer, and CPC Series 1 and 4 connectors. Contacts feature high normal force which provides a low resistance in significant applications such as dry circuit signal conditions. Mating entry is closed-ended to prevent damage from stubbing due to misalignment. A stainless steel spring provides superior normal force and retention in the housing. The contact bodies are machined from solid brass. Single contact current rating is 13 amperes at 30°C Temperature Rise.

See page 13 for product details.

Size 20 DF, Crimp, Snap-In

Precision formed lance-less pin and socket, crimp, snap-in contacts in Size 20. These contacts are used in CPC Series 2 and AMPLIMITE Subminiature D connectors (see catalog 82068 for AMPLIMITE connectors). Contacts feature a low mating force to facilitate high pin counts in the connector housings. Tulip entry design on socket and generous lead-in on pin prevents contact stubbing. Pin contacts are formed from brass, whereas socket contacts are formed from phosphor bronze providing excellent spring properties. Contacts are available with or without insulation support. Single contact current rating is 7.5 amperes at 30°C Temperature Rise.

See pages 14 & 15 for product details.

Size 20 DF, Solder Cup, Snap-In

Precision formed lance-less pin and socket, solder contacts in Size 20. These contacts are used in CPC Series 2 and AMPLIMITE Subminiature D Connectors (see catalog 82068 for AMPLIMITE connectors). Contacts feature a low mating force to facilitate high pin counts in the connector housings. Tulip entry design on socket and generous lead-in on pin prevents contact stubbing. Pin contacts are formed from brass, whereas sockets are formed from phosphor bronze providing excellent spring properties. Contacts may be soldered to solid or stranded wire up to 18 AWG [0.8 mm²] maximum. Single contact current rating is 7.5 amperes at 30°C Temperature Rise.

See page 16 for product details.



Power Contacts

Type I, Crimp, Snap-In, Size 12

Precision screw-machined pin and socket, Size 12 contacts, they are used in Special M Series and "G" Series connectors, and are inserted into the same cavities as Miniature Coaxial contacts. These contacts feature a high normal force which provides a low resistance in significant applications. Mating entry is closed-ended to prevent damage from stubbing due to misalignment. Beryllium copper springs are used to provide contact normal force and are assisted by a stainless steel hood which provides anti-overstress assurance. Single contact current rating is 23 amperes at 30°C Temperature Rise.

See page 17 for product details.

.125 POWERBAND, Crimp, Snap-In

Specifically designed for AMP CPC Connectors (Series 5 and 6) and Metrimate .125 POWERBAND Drawer Connectors, the new .125 POWERBAND contact offers the performance of a MIL-Spec screw machine contact with the economy of a stamped and formed, strip-feed contact. Contacts are formed from copper with beryllium copper springs. Single contact current rating is 50 amperes at 30°C Temperature Rise.

See page 20 for product details.

Size 8, 4/8 Indent Crimp

Precision screw-machined pin and socket, Size 8 contacts, they are used in Metrimate Drawer Connectors, and other AMP product lines, which require high current carrying capability in a small size. Pins are made from a solid high conductivity copper alloy, and the sockets are machined from solid beryllium copper, a material which exhibits excellent spring properties. Industry standard 4/8 indent crimp offers higher reliability and ease of termination. Single contact current rating is 45 amperes at 30°C Temperature Rise.

See page 21 for product details.

Type XII, Crimp-Type

Precision formed male and female contacts used in CPC Series 3 and 4, Special M Series and "G" Series connectors, these contacts offer a low cost power option which provides additional applied cost savings when terminated with semiautomatic application equipment. The contact body is made from 100% copper, which provides for excellent conductivity. Spring characteristics are derived from a captive stainless steel spring which assists the dual cantilever spring members of the female contact. Single contact current rating is 35 amperes at 30°C Temperature Rise.

See page 23 for product details.

High Current Upgrades

Precision screw-machined pin and socket contacts have increased current capability. All upgraded contacts use the high amperage Louvertac contact band. The design of this contact allows for increased current in the same form factor. For example, Type II/Type III+ upgraded contacts increase the current from 13 amperes free air to 23 amperes free air at a 30°C Temperature Rise.

See pages 18, 19, 22, and 24 for further details.



Coaxial Contacts

Subminiature, Crimp, Snap-In, Size 16

Precision screw-machined pin and socket, Size 16 contacts, they are used in M Series, Special M Series, and CPC Series 1 and 4. They provide cost effective solutions in applications where mixtures of signal, power, and coaxial cable terminations are desired. The contact outer shell is made from brass, while the center pin conductor is beryllium copper, and the socket is brass. Both the pin and socket center conductor are gold plated for maximum corrosion resistance and minimum contact resistance. The retention spring is stainless steel, while the ferrule is tin-lead plated copper. Contact design offers application of coaxial cable, shielded conductors, and twisted pair wire with a voltage rating of up to 200 VRMS, and a current rating of 1.0 ampere at 30°C Temperature Rise.

See pages 25 & 26 for product details.

Miniature, Crimp, Snap-In, Size 12

Precision screw-machined, Size 12 pin and socket contacts, they are used in Special M Series and "G" Series connectors. They provide cost effective solutions in applications where a mixture of signal, power, and coaxial cable terminations is desirable. Contact body and center wire conductor are made from brass, and are gold plated for maximum corrosion resistance and minimum contact resistance. The retention spring is beryllium copper, and the ferrule is tinlead plated copper. Contact design offers application of coaxial cable, shielded conductors, and twisted pair wire with a voltage rating of up to 325 VRMS, and a current rating of 7.5 amperes at 30°C Temperature Rise.

See pages 27 & 28 for product details.



Signal Contacts

Type III+, Crimp, Snap-In

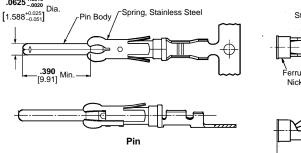


Material

Contact Body—Brass or phosphor bronze Retention Spring —Stainless steel

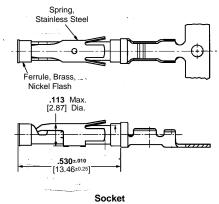
Finish

See chart.



Related Product Data Application Tooling —Pages 29, 30 **Technical Documents**

114-10004 Application Specification 108-10042 Product Specification



Contact Size 16—Pin Diameter .062 [1.57] (Test Current, 13 Ampere)‡

	re Size ange	Ins. Dia.	Contact	Stri Con	p Form tact No.		e Piece act No.	Tooling Loose Piece	Part No. Strip Form
AWG	mm²	Range	Finish	Pin	Socket	Pin	Socket	Hand Tool	Applicators
30-28	0.05-0.09	.015030	Gold/Nickel ²	788085-3	788088-2	_	_	00740.4	567867-1***
30-20	0.05-0.09	0.38-0.76	Sel. Gold/Nickel ³	788085-1	788088-1	788085-4	788088-3	90716-1	or 567947-1** or 680602-□**
			Bright Tin-Lead	66425-6	66424-6	_	_		
		.040060 1 1.02-1.52	Gold/Nickel ²	66425-7	66424-7	66429-3	66428-3	91515-16	466598-□***
30-26	0.05-0.15	1.02-1.52	Sel. Gold/Nickel ³	66425-8	66424-8	66429-4	66428-4		
		.014030 ¹	Gold/Nickel ²	66393-7	66394-7	_	_	90225-26	466585-3***
		0.36-0.76	Sel. Gold/Nickel ³	66393-8	66394-8	8 66406-4	66405-4	90225-20	400000-3
			Bright Tin-Lead	66106-6	66108-6	66107-2	66109-2		
		.0350551	Gold/Nickel ²	66106-7	66108-7	66107-3	66109-3	91515-16	466321-□***
26-24	0.12-0.2	0.89-1.40	Sel, Gold/Nickel ³	66106-8	66108-8	66107-4	66109-4	or	or
			Sel. Gold/Nickel ⁴		66108-1		66109-1	58495-1*	466908-2***
			Bright Tin-Lead	66102-7	66104-7 2-66104-5	66103-2	66105-2	04545.40	100000 ======
		.040080 ¹	Gold/Nickel ²	66102-8	66104-8	66103-3	66105-3	91515-1 ⁶ or	466323-□*** or
		1.02-2.03		66102-9	66104-9	66103-4	66105-4	58495-1*	466907-2***
		2	Sel. Gold/Nickel ³	2-66102-2	2-66104-3	1-66103-2	1-66105-3	36493-1	400907-2
			Sel. Gold/Nickel ⁴	_	66104-1	_	66105-1		
24-20 0.2-0.6		Bright Tin-Lead	66564-6	66563-6	66566-2	66565-2		466383-4***	
		.0601205	Sel. Gold/Nickel ³	66564-8	66563-8	66566-4	66565-4	91542-16	or 466979-1**
		1.52-3.05	Sel. Gold/Nickel ⁴	66564-1		66566-1		*.*.	or 567363-□**
			Bright Tin-Lead	66332-5	66331-5	66400-1	66399-1		
		.080100 ¹	Gold/Nickel ²	66332-7	66331-7	66400-3	66399-3	91523-16	466324-□***
		2.03-2.54	Sel. Gold/Nickel ³	66332-8	66331-8	66400-4	66399-4	or	or
			Sel. Gold/Nickel ⁴		66331-2	_	66399-2	90225-26	466942-1***
		000 4001	Bright Tin-Lead	66098-2 ^s	66100-7	66099-2	66101-2	91505-1 ⁶ or	466325-□***
18-16	0.8-1.4	.080100 ¹ 2.03-2.54	Gold/Nickel ²	66098-8	66100-8	66099-3	66101-3	91523-16 or	or
		2.03-2.54	Sel. Gold/Nickel ³	66098-9	66100-9	66099-4	66101-4	58495-1*	466906-1***
			Sel. Gold/Nickel ⁴	66098-6	_	66099-1			
			Bright Tin-Lead	66359-6 1-66359-1	66358-6 1-66358-2 1-66358-4	66361-2 66361-7	66360-2 66360-7		400000 🗁
		.080100 ¹	Gold/Nickel ²	66359-9	66358-9	66361-3	66360-3	91519-16	466326-□***
		2.03-2.54	GOIQ/INICKEI ²	1-66359-9	1-66358-0		66360-4	91519-1º	or 466923-2***
18-14	0.8-2.0		Sel. Gold/Nickel ³	1-66359-0	1-66358-3	66361-4 66361-8	66360-8		700020 Z
			Sel. Gold/Nickel ⁴				66360-8		
			Sei. Gold/INICKei*		66358-1		00300-1		100050 1***
		.110150 ⁵ 2.79-3.81	Bright Tin-Lead	66597-1	66598-1 66598-7	66602-1	66601-1	91521-16	466958-1*** or
			Sel. Gold/Nickel ³	66597-2	66598-2	66602-2	66601-2		567364-□***

¹Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].

².000015 [0.00038] gold in the mating area over .000050 [0.00127] min. nickel.

^[0.0127] min. nickel.
3.000030 [0.00076] gold in the mating area, with gold flash on remainder, over .000050 [0.00127] min. nickel.
4.000030 [0.00076] gold in the mating area, with gold gradient on remainder, over .000050 [0.00127] min. nickel.
5 Contacts can only be used in Metrimate and CPC Series 1 (Arr. 23-24), Series 4 (Arr. 23-13M, 23-16M, 23-22M), and VDE connectors.

⁶To use with the 626 Pneumatic Tool System: remove the crimping head from the Straight Action Hand Tool (SAHT) Assembly, order SAHT Adapter Part No. (Call Technical Support at 800-522-6752), Adapter Holder Part No. 356304-1 (with ratchet) or 189928-1 (without), and Power Unit PartNo. 189721-1 (hand actuated) or 189722-1 (foot

actuated).
SStandard reeling of strip form contacts.
*Commercial PRO-CRIMPER II hand tool for field repair only. Note: Die Set can be adapted for use with the 626 Pneumatic Tool System.

[‡]Single contact, free-air test current is not to be construed as contact rating current. Use only for testing. Refer to contact current carrying capability information on page 3. Insertion Tool Part No. 91002-1 (for insulation diameters .070 [1.78] or less), **No. 200893-2** (for insulation diameters .090 [2.29] max.).

^{1.050 (2.25)} III.O.). Extraction Tool Part No. 305183. (Instruction Sheet 408-1216) ****Call Technical Support at 1-800-522-6752 for Automatic Machine Applicator Part Numbers.



Type III+, Crimp, Snap-In

Grounding Pin

(make first - break last)

Contact Size —16

Material and Finish

Spring—Stainless steel

tin or gold

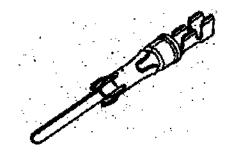
Pin Diameter —.062 [1.57]

Contact Body—Copper alloy, plated

Related Product Data

Application Tooling —Pages 29, 30

Technical Documents —Page 4



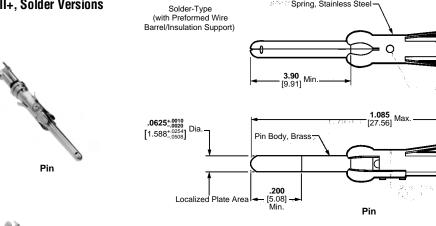
Wire Size Range		Ins.	Contact	Grounding	Pin Part No.	Strip Form	Loose Piece	
[mm ²]	[mm ²] AWG Range ¹		Finish	Strip Form	Loose Piece	Applicator Part No.	Hand Tool Part No.	
0.40.00	26.24	.035055	Tin-Lead	164159-3	164162-1		91515-1 ³ or	
0.12-0.2	26-24	0.89-1.4	Sel. Gold/Nickel ²	164159-4	164162-2	_	58495-1*	
0.2-0.6	24-20	.045070	Bright Tin-Lead	164160-3	164163-1	466323-□***	91515-1 ³ or	
0.2-0.6	0.2-0.6 24-20	1.14-1.78	Sel. Gold/Nickel ²	164160-4	164163-2	or 466907-2***	91505-1 ³ or 58495-1*	
		.078098	Tin-Lead	164161-3	164164-1	466741-□***	91523-13 or	
0.8-1.4 18-16	1.98-2.49	Sel. Gold/Nickel ²	164161-4	164164-2	or 680114-3***	91505-1 ³ or 58495-1*		

¹Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].

Stainless Steel

Extraction Tool Part No. 725840-1

Type III+, Solder Versions





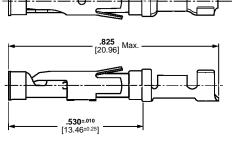
Socket

Material

Contact Body and Tab —Brass Retention Spring —Stainless steel

Finish

See chart on Page 11.



Socket

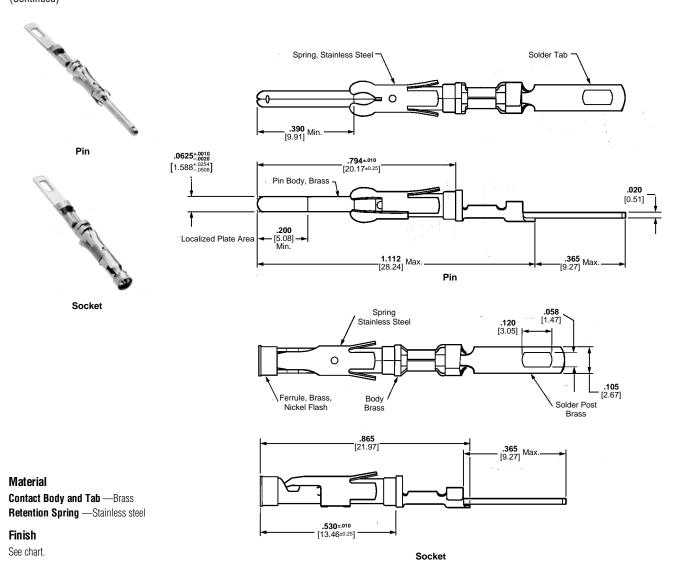
²Gold flash over .000030 [0.00076] min. nickel on entire contact, with .000030 [0.00076] gold in contact area.

To use with the 626 Pneumatic Tool System: remove the crimping head from the Straight Action Hand Tool (SAHT) Assembly, order SAHT Adapter Part No. (Call Technical Support at 800-522-6752), Adapter Holder Part No. 356304-1 (with ratchet) or 189928-1 (without), and Power Unit PartNo. 189721-1 (hand actuated) or 189722-1 (foot actuated).

^{***}Commercial PRO-CRIMPER II hand tool for field repair only. **Note:** Die Set can be adapted for use with the 626 Pneumatic Tool System. ***Call Technical Support at 1-800-522-6752 for Automatic Machine Applicator Part Numbers.



Type III+, Solder Versions (Continued)



Contact Size 16—Pin Diameter .062 [1.57] (Test Current, 13 Ampere)‡

	e Size ange	Contact Finish	Loose Piece Contact No.		
AWG	[mm²]	Finish	Pin	Socket	
26-20	0.12-0.6	Gold/Nickel ¹	66182-1	66183-1	
18-16	0.8-1.4 Gold/Nickel ¹		66180-1	66181-1	
Sc	older	Duplex ²	202236-1	202237-1	
7	Гab	Bright Tin-Lead ³	202236-2	202237-2	

^{1.000030 [0.00076]} gold in mating area over .000050 [0.00127] nickel.

Note: These contacts can be used in Multimate contact cavities of all connector housings.

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

Refer to contact current carrying capability information on page 3. Extraction Tool **Part No. 305183** (Instruction Sheet 408-1216)

²Duplex plated .000030 [0.00076] gold in mating area over .000050 [0.00127] nickel on contact body; bright tin-lead on solder tab.

³Bright tin-lead on entire contact.



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



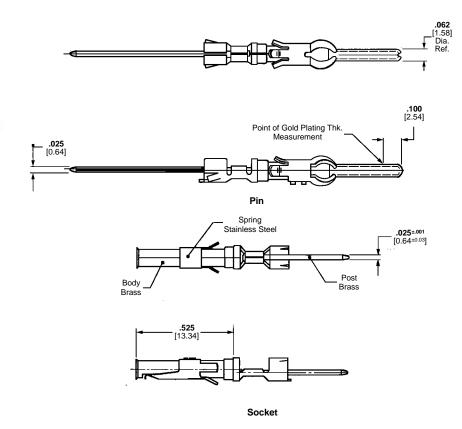


Socket

Material
Contact Body and Post—Brass
Retention Spring —Stainless steel

Finish

See chart.



Contact Size 16-Pin Diameter .062 [1.57] (Test Current, 13 Ampere)‡

-	Post Configuration	0	Loose Piece Contact No.							
Termination Method		Contact Finish	3 Termination High Post		2 Termination High Post		1 Termination High Post			
Metriou	Comiguration	i iiii3ii	Pin	Socket	Pin	Socket	Pin	Socket		
		Sel. Gold/Nickel ¹	66460-9	66461-9	66460-8	66461-8	66460-7	66461-7		
	.025 x .025 0.64 x 0.64 .045 x .045 1.14 x 1.14	Gold/Nickel ²	66460-6	66461-6	_	66461-5	66460-4	66461-4		
		Bright Tin-Lead	66460-3	66461-3	66460-2	66461-2	66460-1	66461-1		
Wrap-Type		Sel. Gold/Nickel ¹	66471-9	66473-9	_	_	66471-7	66473-7		
		Bright Tin-Lead	66471-3	66473-3	_	_	66471-1	66473-1		
	.031 x .062 0.79 x 1.57	Sel. Gold/Nickel ¹	66470-9	_	_	_	66470-7	_		
TERMI-POINT Clip	.031 x .062 0.79 x 1.57	Sel. Gold/Nickel ¹	66468-9	66459-9	_	_	_	_		

¹Gold 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 (Instruction Sheet 408-1216)

Insertion Tool Part No. 200893-2

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

^{2.000030 [0.00076]} gold over .000050 [0.00127] nickel on contact body. Gold thickness controlled on socket O.D.

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

[1.57±0.03] Dia.



Signal Contacts (Continued)

Type II, Screw Machined, Crimp, Snap-In

Material

Contact Body—Brass **Retention Spring** —Stainless steel

Finish

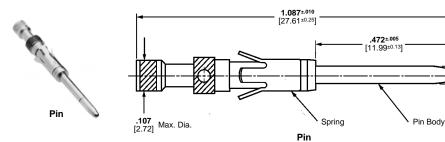
Contact Body—000030 [0.00076] gold over .000050 [0.00127] nickel. Gold thickness controlled on socket O.D.

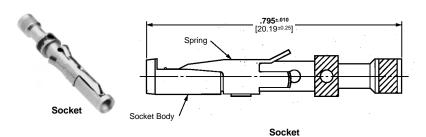
Related Product Data

Application Tooling -Pages 29, 30

Technical Documents

108-10039 Product Specification 114-10026 Application Specification





Contact Size 16—Pin Diameter .062 [1.57] (Test Current, 13 Ampere)‡

	_			_				To	oling Part No.	
Wire Size Range		Ins.	Tape Mounted Contact No. ²		Loose I Contac		Contact	Tape Mounted	Loose Piece	
AWG	mm²	Dia. Range ¹	Pin	Socket	Pin	Socket	Color Code	Dies for AMP-TAPETRONIC Machine 69875	Die Set for 626 Pneumatio Tool System	Hand Tool
		.035055 0.89-1.40	201611-4	_	201611-14	201613-15	Red/Red		90230-17	91538-1
28-24	0.08-0.20	.048065 1.22-1.65	_	-	201334-14	201332-15	Red/Red	90249-2	90230-17	or 601967-1
		.095110 2.41-2.79	_	_	202410-14	202411-15	Green		_	601967-1
24-20	0.2-0.6	.040062 1.02-1.57	201578-4	_	201578-14	201580-15	Yellow/Red	00240.2	90230-17	91538-1 or 58541-1*
24-20	0.2-0.6	.055088 1.40-2.16	201330-6	201328-9	201330-14	201328-15	Yellow/Red	90249-2	90230-17	or 601967-1
18 (Two)	0.9-0.9 (Two)	No. Ins. Support	_	_	202725-14	202726-14	Blue	_	90231-27	91539-1 or 601967-1
		.080105 2.03-2.67	_	_	202507-14	202508-15	_	_	_	90136-1 or 601967-1
18-16	0.8-1.4		200336-6	200333-8	200336-14	200333-14	Blue/Blue	90250-1	90231-27	91539-1
	No Ins. Support		_	204219-15,6	_	Blue/Blue	_	_	58541-1* or 601967-1	
		No Inc	212618-23	201568-3	201570-14	201568-15	Violet/Blue	90250-1	90231-27	91539-1
14 2	No Ins. Support	201570-2	_	212618-13,6,†	_	Violet/Blue	90250-1	_	58541-1* or 601967-1	

¹Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].

tion on page 3.

Insertion Tool Part No. 200893-2 (for insulation diameters .070 [1.78] or less).

Extraction Tool Part No. 305183.

²For AMP-TAPETRONIC Machine No. 69875, order contacts by Tape Mounted Contact No., plus packaging code "IM REEL" (5000 parts per reel).

³Grounding pin is used to provide a make-first/break-last condition when mating and unmating connector halves.

⁴Use turret TH502 (1-601967-6) with hand tool 601967-1.

⁵Use turret TH501 (1-601967-5) with hand tool 601967-1.

⁶Pin length is .630±.005 [16.002±.127] on these two pins.

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).

^{*}Commercial PRO-CRIMPER II Hand Tool for field repair use only. Note: Die Set can be adapted for use with the 626 Pneumatic Tool System.

[†]Does not use Hand Tool 45098 or 601967-1.
‡Single contact, free-air test current is not to be construed as contact rating current. Use only for testing. Refer to contact current carrying capability informa-



Size 20 DF, Crimp, Snap-In

Contact Size —20

Pin Diameter —.040 [1.02]

*Test Current—7.5 ampere

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





Material

Pin Body—Brass **Socket**—Phosphor bronze

Contact Finish

A—Select gold flash over nickel on entire contact, with additional .000030 [0.00076] gold on mating end

B—Duplex plated .000030 [0.00076] gold on mating end, tinlead on termination end, with entire contact nickel underplated

C—Gold flash over nickel on entire contact

D—Duplex plated gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

*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. See page 3.

Insertion/Extraction Tool Part No.

91285-1

Instruction Sheet—408-9404

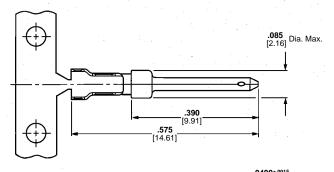
This tool includes interchangeable tips to Insert/Extract:

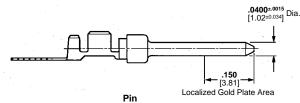
Size 22, 28-22 AWG [0.08-0.03mm²] Crimp Contacts

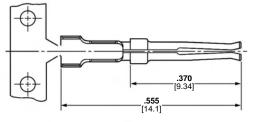
Size 20, 28-20 AWG [0.08-0.6mm²] Crimp and Solder Cup Contacts

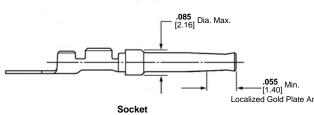
Size 20, Posted Contacts

With Insulation Support









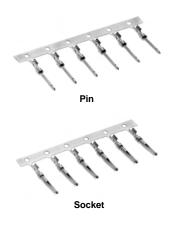
Wire	Ins.	Contact		Contact	Part Nos.		Toolin	g	Color
Size	Dia.	Finish	P	in	Soc	cket	Strip Form	Hand	Code (Loose
Range	Max.	Code	Strip Form	Loose Piece	Strip Form	Loose Piece	Applicator ^{††}	Tool	Piece)
		Α	66507-3	66507-9	66505-3	66505-9			
	.040 1.02	В	3-66507-0	5-66507-7	6-66505-0	_	466423-□††	91503-1 [†]	Blue Dot
28-24		С	66507-4	1-66507-0	66505-4	1-66505-0	or 466901-1 ^{††} or 1016015-1 ^{††}	91503-11	
AWG [0.08-0.2		D	3-66507-1	5-66507-9	5-66505-7	5-66505-9	01 1010013 1		
mm ²]	.060	Α	66682-2	66682-4	66683-2	66683-4	466758-2††		Dist
	1.52	В	66682-9	_	1-66683-0		or 466963-1††	91549-1†	Black Dot
		D	66682-6	_	66683-7	_	or 567804-1††		201
26-22		Α	745254-2	745254-6	745253-2	745253-6	-6_		
AWG	.050	В	1-745254-4	1-745254-6	1-745253-4	1-745253-6	466968-1††	91525-1†	Yellow
[0.12-0.4	1.27	С	745254-3	745254-7	745253-3	745253-7	or 567036-□ ^{††} or 567849-1 ^{††}	91020-11	Dot
mm ²]		D	1-745254-1	1-745254-3	1-745253-1		01 007 0 10 1		
24-20		Α	66506-3	66506-9	66504-3	66504-9	466422-□#		
AWG	.060	В	2-66506-4	5-66506-7	5-66504-9	6-66504-0	or 466900-1 ^{††}	91503-1†	Red
[0.2-0.6	1.52	С	66506-4	1-66506-0	66504-4	1-66504-0	or 567801-1 ^{††}	31303-11	Dot
mm²]		D	2-66506-5	5-66506-9	5-66504-6	5-66504-7	or 1016002-1††		

†To use with the 626 Pneumatic Tool System: remove the crimping head from the Straight Action Hand Tool (SAHT)
Assembly, order SAHT Adapter **Part No. (Call Technical Support at 800-522-6752)**, Adapter Holder **Part No. 356304-1**(with ratchet) or **189928-1** (without), and Power Unit **Part No. 189721-1** (hand actuated) or **189722-1** (foot actuated).
††For complete information on AMP Strip Form Applicators for fully automatic and semiautomatic machines, contact Technical Support: 1-800-522-6752.

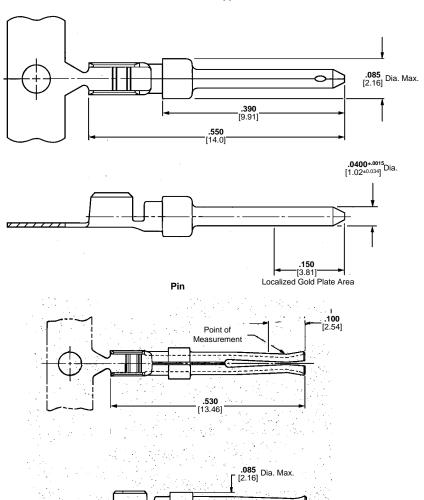
Note: Commercial PRO-CRIMPER II Maintenance and Repair Hand Tool for Wire Size 28-24 AWG [0.08-0.2mm²] (Ins. Dia. Max. .040 [1.02]), and Wire Size 24-20 AWG [0.2-0.6mm²] (Ins. Dia. Max. .060 [1.52])—Part No. 58448-2. Note: Die Set Part No. 58448-3 can be adapted for use with the 626 Pneumatic Tool System.



Size 20 DF, Crimp, Snap-In (Continued)



Without Insulation Support



Socket

Wire		Contact		Contact	Part Nos.		Tooling		Color
Size	Ins. Dia. Max.	Finish Code	-	Pin	So	Socket		Hand	Code
Range	Wax.		Strip Form	Loose Piece	Strip Form	Loose Piece	Applicator	Tool	(Loose Piece)
28-24 AWG [0.08-0.2 mm ²]	.068	Α	205310-2	_	205311-3		††	04540.4	Blue Dot
	1.73	С	_	_	205311-4	_	11	91548-1	
24-20 AWG	.068	Α	205202-2	_	205201-3	205201-5			Red Dot
[0.2-0.6 mm ²]	1.73	С	205202-6	205202-7	205201-6	205201-7	††	91548-1	
22-18		Α	745229-2	745229-4	745230-2	745230-4			
AWG	.068	В	1-745229-1	_	1-745230-1	1-745230-3		04540.4	Green
[0.4-0.8	1.73	С	745229-5	745229-7	745230-5	745230-7	††	91513-1	Dot
mm ²]		D	_	_	745230-8				

^{††}For complete information on AMP Strip Form Applicators for fully automatic and semiautomatic machines, contact Technical Support: 1-800-522-6752.

Note: Wire insulation diameter is limited by the connector housing cavity and clearance for the insertion/extraction tool.



Size 20 DF, Solder, Snap-In

Contact Size —20

*Test Current—7.5 ampere

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



Pin



Material

Pin—Brass

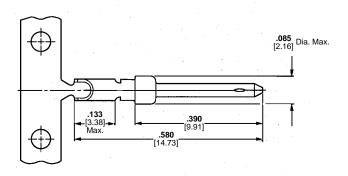
Socket-Phosphor bronze

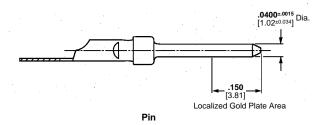
Contact Finish

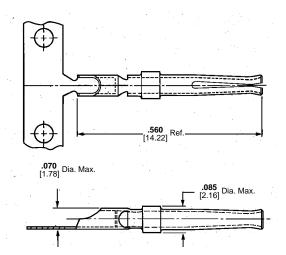
Gold flash over nickel on entire contact, with additional .000030 [0.00076] gold on mating end

Note: Total current capacity of each contact in a 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. See page 3.

Contacts to be soldered to wire before being inserted into housing. 18 AWG [0.8-0.9 mm²] Max. Wire







Socket

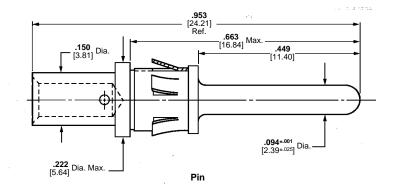
Strip Conta	Form ct No.	Loose Piece Contact No.			
Pin	Socket	Pin	Socket		
66570-2	66569-2	66570-3	66569-3		

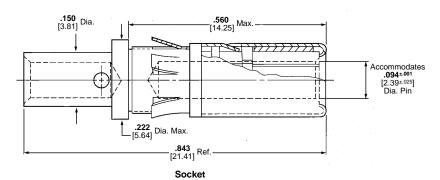


Power Contacts

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 Range		Loose	Piece	Tooling Part No.		
			ct No.	Dies for	Hand	
AWG	[mm²]	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.

‡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.

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

Standard



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

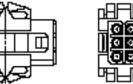
Current-Carrying Capacity. The graph shows current-carrying capacity versus temperature rise for a fully energized 6 position Metrimate Square Grid plug P/N 207152-1 and receptacle P/N 207153-1. These initial representative amperage ratings were conducted with 14 AWG wires that were 2 feet long.

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





Plug (for Sockets)





Current Rating for

30°C Temperature Rise

100% Energized

6 Circuit Metrimate

Connector (Wire-to-Wire)



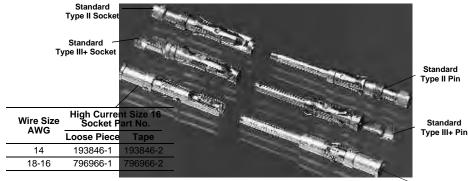






Receptacle (for Pins)

Power Contacts—High Current Upgrade (Continued)



High Current Size 16 Pin (Board Mount) Part No. 194264-1

Wire Size AWG	High Currer Pin Par	
AWG	Loose Piece	Tape
14	193844-1	193844-2
18-16	796964-1	796964-2

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. GURRENT

EMPERATURE RISE (DEGREESC) CURRENT (AMPS) CRIMPED CONTACTS

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.
- 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—High Current Upgrade (Continued)

Size 20, Posted

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

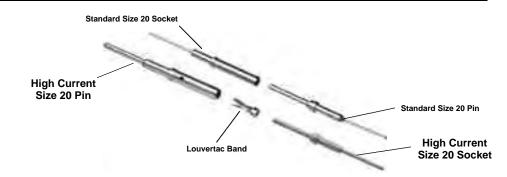
Louvertac Band — Beryllium copper

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° T-Rise of **11.85 amps** in free air.







Socket Part No. 194083-1

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

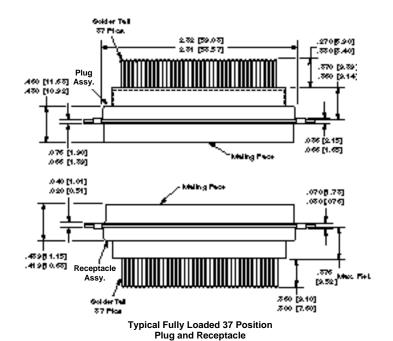


Pin and Socket Insertion/Extraction Tool

Part Number 910 67-2 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 No. 82069.

Technical Support



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

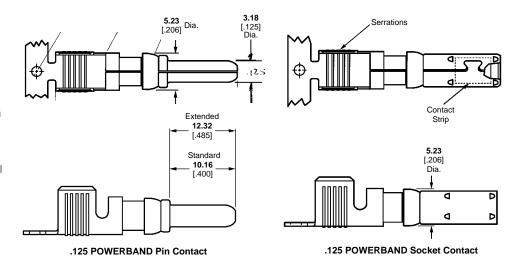
B. 0.00076 [.000030] min. gold on contact area, gold flash on remainder, all over 0.00127 [.000050] min. nickel underplate

Related Product Data

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

Extraction Tool Part No. 318813-1

(Instruction Sheet 408-4374)



			Contact Part No.				Tooling Part No.		
Wire Size	Contact Finish	Pin Length	s	trip	Loos	e Piece	Heavy Duty Miniature (HDM) Applicators (for AMP-O-LECTRIC		
AVVG/IIIIII-		Lengui	Pin	Socket	Pin	Socket	Modèl 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	000405.0	256642.4	
2-3	Α	Extended ¹	213845-5	_	213845-7		680195-3	356612-1	
	В	Extended ¹	213845-6	_	213845-8				
	Α	Standard	213841-1	213843-1	213841-3	213843-3			
10-8	В	Standard	213841-2	213843-2	213841-4	213843-4	000407.0	356611-1 (8 AWG)	
5-8	Α	Extended ¹	213841-5	_	213841-7		680197-3	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	Housin	ng 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.

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

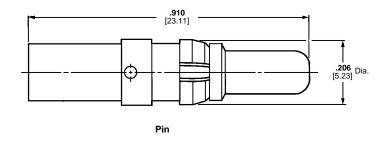


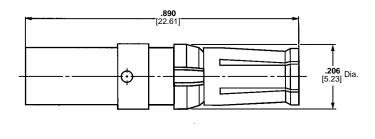
Power Contacts (Continued)

Standard, Size 8, 4/8 Indent Crimp



Socket





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

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	Contacts		ing Tools
AWG	[mm ²]	[mm²] Pin S		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

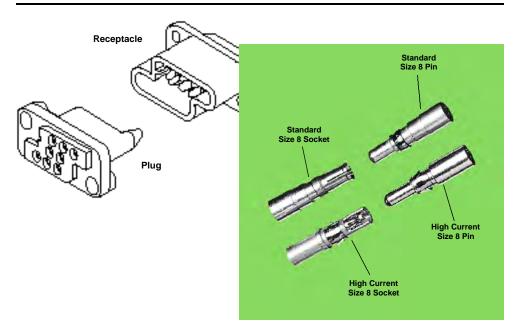
- Recognized under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A

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

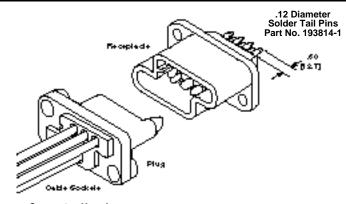


High Current Contacts

Wire Size	Contact Par	rt 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

†Daniels Manufacturing Corp., Orlando, FL



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.



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 ‡

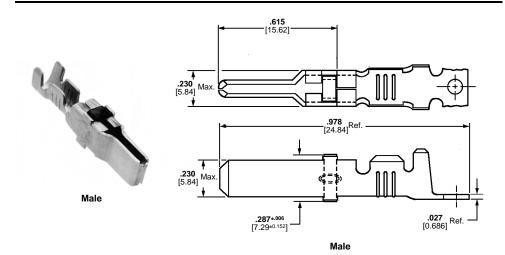
‡Single contact, free-air test current; not to be construed as contact rating current. Use only for testing. Refer to contact current carrying capability information, page 3.

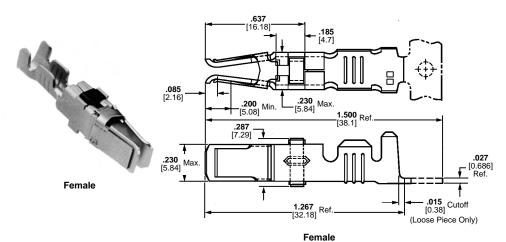
Related Product Data

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



Extraction Tool Part No. 91019-3





				St	rip Form Co	ntact Part No	os.	Loose	Piece		Гooling								
	Wire Size Range ¹		Contact	Stand	ard***		y Duty ature***			Die Set for Hand Tool 69710-1									
AWG	mm²	Range	Finish	Male	Female	Male	Female	Male	Female	Applicator	or 626 Pneumatic Tool System								
			Α	66255-1	66740-7	66255-5	1-66740-2	66261-1	66740-8										
		А	66256-1 ²	_	66256-5 ²	_	66262-1 ²	_											
16 and	1.25-1.4 and		.135160	¹ .135160	⁴ .135160		.135160	.135160	В	66255-2	66740-5	66255-6	1-66740-1	66261-2	66740-6	567455-□**	90145-2 ^{3,7} and		
14-12	2-3	3.43-4.06	ь	66256-22	_	66256-4 ²	_	66262-22	_	307433-	90145-1 ^{4,7}								
											C5	66255-7	66740-1	66255-8	66740-9	66261-4	66740-2		
										C°	66256-6 ²	_	66256-7 ²	_	66262-4 ²	_			
			۸	66253-1	66741-7	66253-5	1-66741-2	66259-1	66741-8										
										Α	66254-1 ²	_	_	_	66260-1 ²	_			
10	5-6	.190220	.190220	.190220	.190220	.190220	.190220	220 B	66253-2	66741-5	66253-6	1-66741-1	66259-2	66741-6	E67021 □***	90140-17			
10	3-0	4.83-5.59	Ь	66254-22	_	_	_	66260-22	_	567021-□***	90140-1								
						C ⁵	66253-4	66741-1	66253-8	66741-9	66259-4	66741-2							
			C°	66254-4 ²	_	_	_	66260-4 ²	_										

¹Wire strip length—.281 [7.14].

²Ground contact.

³Die insert PartNo. 90145-2 is for crimping 16 AWG [1.25-1.4 mm²] wire.

⁴Die insert PartNo. 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 ***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.

Standard Type XII Socket High Current Type XII Socket Part No. 193990-2 Standard Type XII Pin High Current Type XII Pin Part No. 193991-4 Type XII Ground Pin Part No. 193991-3*

* 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

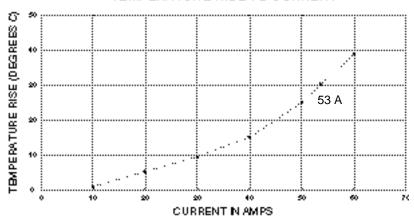
Current-Carrying Capacity. The graph shows current-carrying capacity versus temperature rise for a fully energized 3 position CPC plug P/N 206037-2 and receptacle P/N 206036-2. These initial representative amperage ratings were conducted with 8 AWG wires that were 3 feet long.

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.
 - 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.

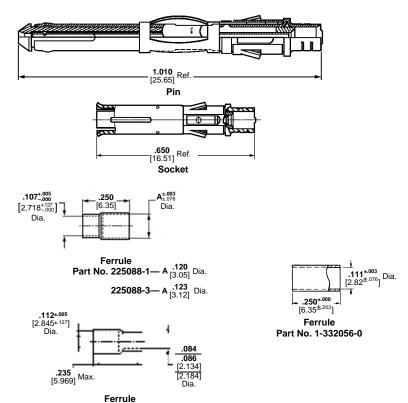


Coaxial Contacts

Subminiature, Crimp, Snap-In, Size 16







1-332056-0

Part No. 1-332057-0

Selection Chart for Coaxial Cable

		Loose	Diece		Tooling Part No.		
Cable Size (RG/U)	Contact Finish	Conta		Ferrule Part No.	Die Inserts for Hand Tool 69710-1	Hand	
		Pin	Socket		or Pneumatic Tool*	Tool	
178, 196	Gold/Nickel Gold/Copper ¹	226537-2	51565-2	1-332057-0	69690-2	00050.0	
170, 190	Gold/Nickel Gold/Copper ²	_	51565-5	1-332037-0	09090-2	69656-2	
196	Gold/Nickel Gold/Copper ¹	226537-2	51565-2	225088-1	_	69656-9	
(Double Braid)	Gold/Nickel Gold/Copper ²	_	51565-5	223000-1	_	09030-9	
174, 188, 316	Gold/Nickel Gold/Copper ¹	226537-1	51565-1	1-332056-0	69690	91911-3**	
	Gold/Nickel Gold/Copper ²	226537-4	51565-4	1-332030-0	09090	31311 3	
174	Gold/Nickel Gold/Copper ¹	226537-1	51565-1	225088-3		69656-7	
(Double Braid)	Gold/Nickel Gold/Copper ²	226537-4	51565-4	223000-3	_	09030-7	
179, 187	Gold/Nickel Gold/Copper ¹	226537-1	51565-1	1-332056-0	69690-1	91911-4**	
179, 107	Gold/Nickel Gold/Copper ²	226537-4	51565-4	1-332030-0	09090-1	91911-4	
187	Gold/Nickel Gold/Copper ¹	226537-1	51565-1	225088-1		60656.9	
(Double Braid)	Gold/Nickel Gold/Copper ²	226537-4	51565-4	223088-1		69656-8	
				•		•	

^{*}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.

51565-1

51565-4

226537-1

226537-4

Gold/Nickel

Gold/Copper

Gold/Nickel

Gold/Copper²

Ferrule —Copper per QQ-C-576 or ASTM-B-152 (1-332056-0)

QQ-S-766

Material

Finish Outer Shell, Center Conductor — See charts

Outer Shell —Brass per MIL-C-50 Center Conductor — Beryllium copper per QQ-C-533 (Pin); Brass per QQ-B-626 (Socket)

Inner Dielectric —Polypropylene Retention Spring —Stainless steel per

Ferrule -Tin-lead per MIL-T-10727

69656-5

161

Tooling Part No.

^{**}Die Set used with PRO-CRIMPER II hand tool frame Part No. 354940-1. Extraction Tool Part No. 305183



Coaxial Contacts (Continued)

Subminiature, Crimp, Snap-In, Size 16 (Continued)

Selection Chart for Twisted Pair and Shielded Wire

		Loose	Piece		Tooling Part	No.
Wire Size	Contact Finish	Contac		Ferrule Part No.	Die Inserts for Hand Tool 69710-1	Hand
AWG [mm²]	i iiiisii	Pin	Socket	i ait ivo.	or Pneumatic Tool*	Tool
30 0.05 (Twisted Pair, Solid)	Gold/Nickel Gold/Copper ¹	226537-3	51565-3	1-332057-0	69690-2	69656-2
28 0.08-0.09 (Twisted Pair, Solid)	Gold/Nickel Gold/Copper ¹	226537-3	51565-3	1-332057-0	69690	91911-3**
28 0.08-0.09 (Twisted Pair, Stranded 7 Str., .0050 [0.13] Dia.)	Gold/Nickel Gold/Copper ¹	226537-3	51565-3	1-332057-0	69690-1 or 69690-2	91911-4** or 69656-2
26 0.12-0.15 (Twisted Pair, Solid or Stranded 7 Str. .0063 [0.16] Dia.)	Gold/Nickel ¹ Gold/Copper	226537-3	51565-3	1-332057-0	69690	91911-3**
26 0.12-0.15 (Shielded, .075 [1.91]	Gold/Nickel Gold/Copper ¹	226537-1	51565-1	1-332057-0	69690-3	69656-3
Max. O.D.)	Gold/Nickel Gold/Copper ²	226537-4	51565-4	1-332037-0	09090-3	03030-3

Note: A ferrule is required for each pin and socket. Extraction Tool Part No. 305183

^{1.000030 [0.00076]} gold over .000050 [0.00127] nickel—outer shell and socket center conductor; .000030 [0.00076] gold over .000100 [0.00254] copper—pin center conductor.
2.000050 [0.00127] gold over .000050 [0.00127] nickel—outer shell and socket center conductor; .000050 [0.00127] gold over .000100 [0.00254] copper—pin center conductor.
*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 (without ratchet) or Part No. 189028-1 (without ratchet) Request Catalon 124208 for more information on the 636 Prepumptic Tool Part No. 189928-1 (without ratchet). Request Catalog 124208 for more information on the 626 Pneumatic Tool System.

^{**}Die Set used with PRO-CRIMPER II hand tool frame Part No. 354940-1.



Coaxial Contacts (Continued)

Miniature, Crimp, Snap-In, Size 12

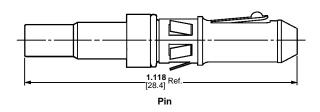


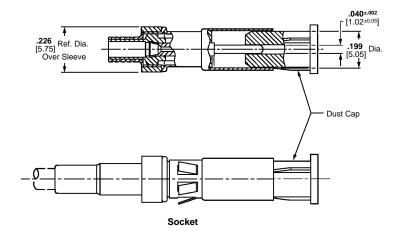


Ferrule

Socket

Retention Spring Part No. 201142-1







Material

Outer Shell —Brass per MIL-C-50 Center Conductor —Brass per QQ-B-626

Inner Dielectric —Polymethylpentene Retention Spring —Beryllium copper per QQ-C-533

Ferrule —Copper per QQ-C-576

Finish

Outer Shell, Center Conductor — See charts on next page

Retention Spring —Nickel per QQ-N-290

Ferrule —Tin-lead per MIL-T-10727

Extraction Tool Part No. 305183-8



Coaxial Contacts (Continued)

Miniature, Crimp, Snap-In, Size 12

(Continued)

Selection Chart for Coaxial Cable

					Tooling Part No.		
Cable Size (RG/U)	Contact Finish	Finish Contact No.		Ferrule Part No.	Die Inserts for Hand Tool 69710-1	Hand Tool	
		Pin	Socket		or Pneumatic Tool*	1001	
55, 55A, 55B	Gold/Nickel ¹	201145-4	201146-4	330478	69315-4	69248-4	
141, 142, 223	Gold/Copper ²	_	201146-9	330476	09313-4	09240-4	
E0 E0A E0D E0C	Gold/Nickel ¹	201145-4	201146-4	328663	60220.2	45740.0	
58, 58A, 58B, 58C	Gold/Copper ²	_	201146-9	320003	69220-2	45740-2	
174, 179A, 187,	Gold/Nickel ¹	201143-1	201144-1	220666	60007.0	91912-3**	
21-598	Gold/Copper ²	_	201144-6	328666	69227-2	91912-3	
180, 180A, 195,	Gold/Nickel ¹	201145-2	201146-2	328664	69222-2	45639-2	
21-597	Gold/Copper ²	1-201145-0	1-201146-0	320004	09222-2		
178, 178A, 196	Gold/Nickel ¹	201511-1	201512-1	328667	69373	69186-2	
188	Gold/Nickel ¹	201143-5	201144-5	328666	69227-2	91912-3**	
100	Gold/Copper ²	201143-7	201144-7	320000	09221-2	91912-3	
122	Gold/Nickel ¹	201145-1	_	328664	69222-2	45639-2	
188 Double Braid	Gold/Nickel ¹	201143-5	201144-5	221848-3		58290-1	
316 Double Braid	Gold/Copper ²	201143-7	201144-7	221040-3	_	36290-1	
Special .125, .100, .066, .012DB	Gold/Nickel ¹	201143-1	201144-1	221848-3	_	58290-1	

Selection Chart for Twisted Pair

Wire Size		Max.		Loose	Piece		Tooling Part N	lo.
		Ins. Dia.	Contact	Contact No. Ferrule		Die Inserts for	Hand	
AWG	[mm²]	(Two Wires Combined)	Finish	Pin	Socket	Part No.	Hand Tool 69710-1 or Pneumatic Tool*	
	0.08-0.15 Solid)	.080 2.03	Gold/Nickel ¹	201511-1	201512-1	328667	69373	69186-2
24-22	0.2-0.4	.115	Gold/Nickel ¹	201143-5	201144-5	328666	69672	91912-3**
(Str	anded)	2.92	Gold/Copper ²	201143-7	201144-7	320000	09072	91912-3
	0.2-0.4 r Stranded)	.160 4.06	Gold/Nickel ¹	50079-1	50080-1	329029	69222-2	45639-2

Selection Chart for Shielded Wire

				Loose Piece Ferrule		Tooling Part No.		
	Shielded Wire	Contact Finish		Loose Piece Contact No.		Die Inserts for Hand Tool 69710-1	Hand	
AWG	No.		Pin	Socket		or Pneumatic Tool*	Tool	
22 22	NAS-702, Class A MIL-C-7078A, Type II	Gold/Nickel ¹	_	201144-3	328666	69227-2	91912-3**	
22	NAS-702. Class B	Gold/Nickel ¹	201145-4	201146-4	328663	69220-2	45740-2	
22	14A3-102, Class D	Gold/Copper ²	_	201146-9	320003	09220-2	43740-2	

Selection Chart for Various Manufacturers' Cables

			Tooling Part No.		lo.					
	Cable Size		ectric Cable (Max.) O.D. Range		Contact Finish	Loose Piece Contact No.		Ferrule Part No.	Die Inserts for Hand Tool 69710-1	Hand
AWG/Type	[mm²]	· · · · · · · · · · · · · · · · · · ·				Pin	Socket		or Pneumatic Tool*	Tool
Brand Rex T209A 29 AWG	0.08	.076 1.93	.112122 2.84-3.10	Single	Gold/Nickel ¹	_	201146-6	330587	_	69360-2
Brand Rex T5788A 26 AWG	0.12-0.15	.106 2.69	.160 4.06	Single	Gold/Nickel ¹ Gold/Copper ²	201145-2 1-201145-0	201146-2 1-201146-0	328664	69222-2	45639-2
Raychem 0030D1314 Army Ord. 11207177 32-26 AWG	0.03-0.15	.129 3.28	.122137 3.10-3.48	Single	Gold/Nickel ¹	_	201146-6	330587	_	69360-2

^{1.000030 [0.00076]} gold over .000030 [0.00076] nickel.

Note: A ferrule and retention spring (201142-2) are required for each pin and socket.

^{2.000100 [0.00254]} gold over .000100 [0.00254] copper.

^{*}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.

^{**}Die Set used with PRO-CRIMPER II hand tool frame Part No. 354940-1.



Application Tooling



Crimp Quality Monitor (CQM)

This unique system provides 100% on-the-fly crimp inspection. It measures the crimp height of each termination, and evaluates the quality of each crimp. If a crimp is questionable, the monitor alerts the operator with both visual and audible alarms. It also provides ports for printing and networking. When used with AMP-O-LECTRIC Model "G" Termination Machines, the monitor is mounted to the machine. When used with AMPOMATOR CLS IV Lead-Making Machines, it is integrated into the machine's operating system.

For complete information, request Catalog 82275.



AMP-O-MATIC Stripper-Crimper Machine

Semiautomatic bench crimping machines that also strip the wire, and are therefore used for terminating jacketed cable. Feature manual precision adjustment of crimp height, keyed strip blades for faster, more accurate setups, and an efficient scrap removal system. All adjustments can be made from the front of the machines without special tools. Available with crimp quality monitoring.

For complete information, request Catalog 65004.

AMPOMATOR CLS IV+ Lead-Making Machine

Fully-automatic machines that measure, cut, strip and terminate single leads. Microprocessor-controlled, and programmed and operated using an easy-to-follow, menu-driven touchscreen. Features include direct-drive terminating units with precision crimp height adjustment, fully programmable setups, wire runout and splice detection. and motorized pre-feed with wire straightener. Crimp quality monitoring is also available.

For more information, request Catalog 124324.

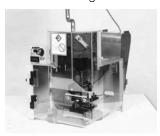


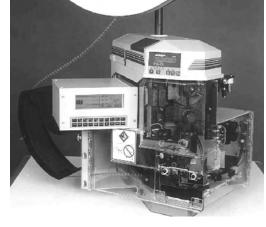


Quick-Change Applicators

These applicators can be changed in minutes to afford maximum flexibility and minimum production downtime for a wide range of AMP automatic machines. Crimp height for a given wire size is simply "dialed in."

For complete information, see specific AMP automatic machine catalog.





AMP-O-LECTRIC Model G Terminating Machine

Semiautomatic bench machines for crimping reeled terminals and contacts, featuring a quiet and reliable direct motor drive, microprocessor controls for ease of setup and operation, and guarding and lighting designed for operator convenience. All models are equipped with either

manual or automatic precision adjustment of crimp height. Machine-mounted sensors are available for crimp quality monitoring using conventional miniature-style aplicators.

For complete information, request Catalog 65828.

Entry Level Terminator (ELT)

Semiautomatic bench terminator for side- and end-feed reeled terminals and contacts. The ELT uses a DC motor with gear box drive. The result is a small-foot-print design that is fast and quiet. Cycle time is less than 0.400 seconds with an

operation sound level of 76 dBA. It has a crimp force capacity of 3,000 pounds. Optional equipment is also available to meet specific application requirements.

For complete information, request Catalog 1308382.



Application Tooling (Continued)



PRO-CRIMPER II Hand Tool Part No. 58495-1

Commercial grade hand tool for crimping various products. Features ratchet control to provide complete crimp cycle. Accepts both pinned- and shouldered-style die sets. Locators are provided with pinned-style die sets for proper contact and wire positioning, and to help minimize contact rotation and bending during crimping. Approximate weight 1.3 lb [0.60 kg].

For complete information, request Catalog 82276.

CERTI-CRIMP Hand Tools

These premium tools are ideal for small production, prototype and experimental applications. They are used for terminating pin and socket contacts to wire and feature the CERTI-CRIMP ratchet device to provide for properly formed crimps.



Straight Action Hand Tool

For Type III+ contacts, see page 9.



"C" Head Straight Action Hand Tool, Part No. 69710-1

For subminiature coaxial contacts, see pages 25 & 26.



626 Pneumatic Tool, Part No. 189721-2 (Power Unit ONLY)

For various contacts, see pages 9, 13-14, 17, 20, 23 & 25-28.

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