tyco Electronics

FASTON Terminals
Insulated and Uninsulated

RoHS Ready

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Catalog 82004
Revised 7-06

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

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Introduction

The AMP FASTON Terminal product line includes Ultra-Fast, Ultra-Fast Plus and Ultra-Pod fully insulated FASTON terminals, as well as Positive Lock receptacles consisting of receptacles, tabs and splices specifically designed for quick connections. FASTON products are grouped according to tab width dimensions in series “312”, “250”, “205”, “187”, “125” and “110”. This product line offers speed of application, uniform reliability and low per line cost. These advantages have made FASTON products the number one choice of many leaders in the appliance and automotive industries. Other industries for FASTON products are computer and peripheral equipment, industrial controllers, test equipment and telecommunications equipment manufacturers.

Speed of application is achieved through the use of application tools for which a complete line has been developed specifically for these terminals. See application tooling section in back of catalog for general information. Specific rates and capabilities can be obtained by contacting Technical Support at 1-800-522-6752.

Built-in features also add to the reliability of FASTON products which include: crimping dimensions for each terminal which are precisely controlled providing all connections with excellent performance; low per line cost derived from low initial product cost, high application speeds, and plug-in assemblies of the finished termination as well. The combination of these features brings the user the lowest overall costs for quick connect/disconnect terminations. While it’s true that we have over fifty years of proven reliability behind our product, we are not content to rest. We are constantly striving to introduce new and improved products to add to our quick connect family. AMP Positive Lock RAST 5 Connectors, Ultra-Pod Positive Lock, C-Crimp flags and our ever expanding offering of Printed Circuit Board tabs and receptacles are examples of recent additions to the FASTON product family.

It is our commitment to innovation and continuous improvement that allows the AMP FASTON terminal product line to remain the leader in the industry.

Need more information?

Call Technical Support at the numbers listed in the footer of every page.

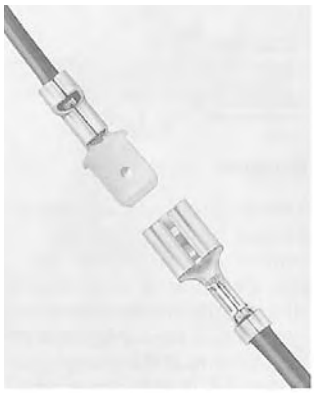
Technical Support is staffed with specialists well versed in all Tyco Electronics products. They can provide you with:

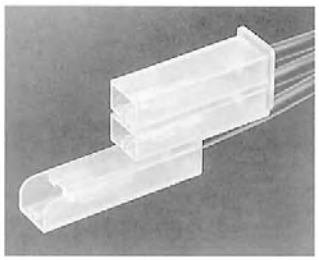
- Technical support
- Catalogs
- Technical Documents
- Product Samples
- Tyco Electronics Authorized Distributor Locations

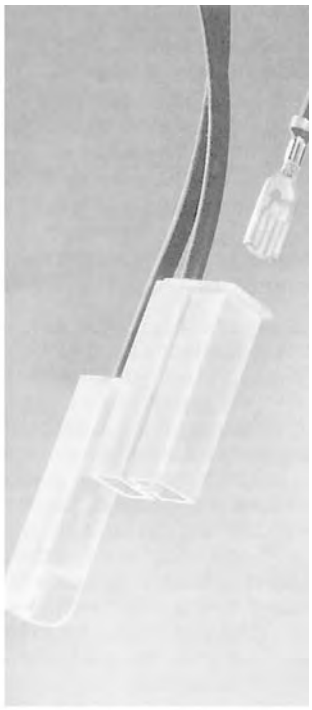
- **Produced under a Quality Management System certified to ISO 9001**

A copy of the certificate is available upon request.

Introduction (Continued)







Tyco Electronics has made great effort to prepare this catalog as accurately as possible. All information contained herein, including illustrations, specifications and dimensions, is believed to be reliable as of the date of publication. However, errors may occur and product information can change quickly. Circumstances may require that adjustments to the information be made after printing. Tyco Electronics reserves the right to make any such adjustments at any time without notice. We apologize for any inconvenience these changes or adjustments may cause.

Current sales drawings and specifications are available upon request. Tyco Electronics makes no claims or warranties, express or implied, as to the application of these products or their suitability or fitness for any particular purpose. Accordingly, it is recommended that each user independently test and evaluate products for their intended use.

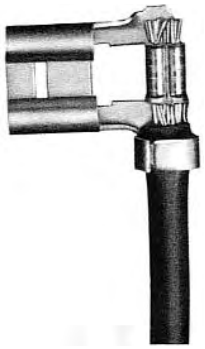
We welcome your comments about the catalog so we can continue to improve the quality of the technical information we provide about our products.

The Products

The AMP family of quick connects provides the right product for most applications. All styles provide features for quality and reliable interconnections. All lines meet the applicable requirements of UL-310. The FASTON product line consists of two mating parts—the receptacle and the tab. Receptacles are available in both straight and flag configurations and come in a variety of sizes. They are designed numerically by a series number that corresponds to the width of the mating tab. There are six series of both straight-on and flag receptacles “312”, “250”, “205”, “187”, “125”, and “110”.

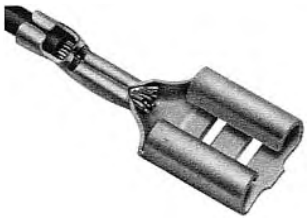
Product Styles

Flag Receptacles



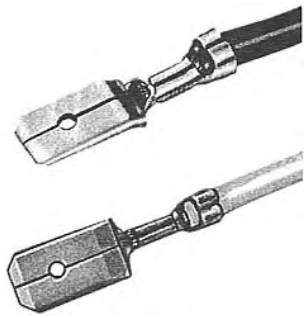
The Flag Receptacle is a reliable termination for those applications where space is a critical factor. Connection with mating tab is at right angle to axis of conductor. Typical installations include bussing switches in back-splashes of ranges or in similar heavy duty applications.

Straight Receptacles



Straight receptacles are made with or without insulation support. Insulation diameters of .040–.230 are accommodated by the insulation support receptacle. Another feature of this type is a step-down insulation support barrel to compensate for insulation thickness to maintain axial alignment of the conductor strands. Over-insertion of shoulderless tabs is prevented by tapering walls at the rear of the receptacle.

Wire Crimp Tabs



The wire crimp tabs are designed for line splices and other special applications. They can be applied to 22-14 AWG wire with “F” crimp with termination and include insulation support. The wire crimp tab is also available with AMPLIVAR connector type serrations for magnet wire applications.

Printed Circuit Board Tabs

These tabs are designed to be inserted into holes in PC Boards, then attached permanently during the soldering operation. They can be hand inserted or machine inserted using Tyco Electronics application equipment.

Board Mount Tabs

Board mount tabs are available in all the series. These tabs are mounted using rivets or screws through stud holes. They are available in single 90 degree configurations, straight and angled versions, dual versions (90, 45 degree and Straight), weld tab versions and special configurations.

Locking Action and Contact Area

Since corrosion and oxidation tend to affect performance by cutting down contact areas and increasing the constriction resistance of connections, maximum contact areas are incorporated in the design of FASTON receptacles and tabs. The design also includes a dimple detent and web section which not only increases contact surfaces but also locks in the tab and receptacles at proper insertion depth for firm retention.

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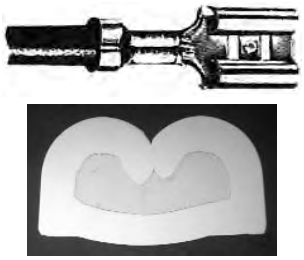
The Products (Continued)

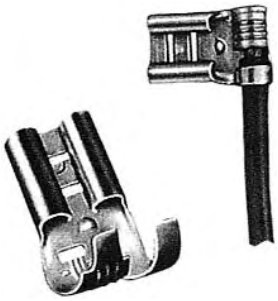
Crimp Styles

The "F" Crimp



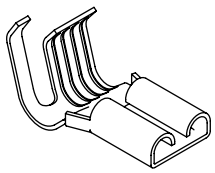
The standard crimp on all straight and certain flag type FASTON Terminals is the "F" crimp. Experience over widespread segments of the industry has proved this crimp the most effective way of providing stable electrical and mechanical performance. Applied with match-mated tooling, the "F" crimp offers the optimum combination of mechanical strength and electrical conductivity. This method of termination also provides maximum resistance to vibration and corrosion.

Tab-Lok Crimp for FASTON Flag Terminals



In making this crimp, a feature of the FASTON Flag Terminal, a tab on the wire barrel, is inserted through a slot in the terminal itself. The crimping action is continued by flattening the tab between two lances which in turn are locked over the tab. The wire connection is locked in to offer reliable electrical and mechanical performance. This receptacle design includes a lance-tab stop at its rear to avoid over-insertion of shoulderless tabs.

The "C" Crimp



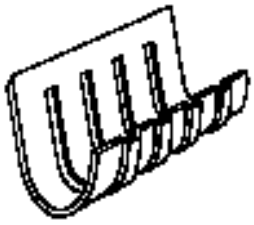
A new style crimp with wrap-around barrel design with the standard, reliable FASTON receptacle. The special barrel design assures a maximum contact area and when applied with the matched tooling, will provide reliable electrical and mechanical performance at a minimum terminal profile.

Available in the 187 series for both .020 and .032 thick tabs, brass or phosphorous bronze base materials in either plain or tin plated.

TETRA-CRIMP

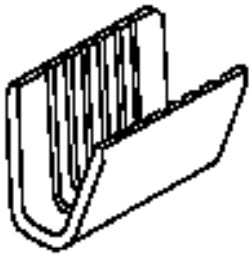
This exceptionally reliable crimp is used on PIDG FASTON Receptacles. The terminals feature nylon insulation fitted over a copper support sleeve. PIDG FASTON Receptacles are of the straight variety only, and are available in strip form or tape mounted for high-speed application with automatic crimping machines, or in loose piece form for application with hand tools.

Corrugated Keystone Barrel Serrations



This special terminal wire barrel design provides maximum contact area between terminal and bare conductor. During the crimping process, bulk deformation forces the conductor into these serration channels creating a scrubbing action on oxide film on the wire. The termination is also extremely resistant to vibration and shock.

AMPLIVAR Terminal Crimp



This crimp is designed for reliable, high-speed connection of magnet wire. The conductor(s) is automatically multiple-ring stripped and forced into sharp serrations with a single precision-controlled solderless crimp. This operation produces a strong, air-tight termination that is as resistant to corrosion and many other environmental effects as the insulated conductor itself.

Receptacle Product Lines

Premier

The receptacle configuration of the Premier line, with its resilient rolls and double slot bottom allows maximum compliancy while retaining the high normal forces necessary to provide good wiping action and highly reliable interface. The basis to the resiliency of the Premier line receptacle is in the *thermal stress relieving* each terminal receives. This extra processing step relieves the residual stresses the stamping process imparts and allows the receptacle to resist the effects of over-stressing, while retaining the normal forces which provide good cleaning action and low, stable resistance under a variety of operating conditions.

Budget

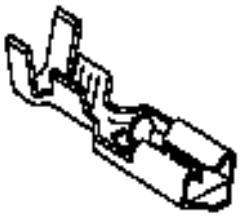
The Budget line receptacles are constructed similar to the Premier line and are easily distinguished by the single slot. The single most important difference between the Budget line and Premier line is that the Budget line does not receive the special processing of the Premier line. In addition, in the .250 series, the Budget line receptacles are constructed of lighter .016 brass.

Economy

The Economy line receptacle is separated from its counterparts by the large lead-in provided by its flared, relatively low, roll construction. This roll construction and lead-in, with tab contact coming on the mill finish of the brass instead of a profiled edge, makes for lower average insertion forces at relatively high normal forces.

Low Insertion Force

The Low Insertion Force (LIF) type receptacle offers lower insertion forces than the other receptacle styles thru the unique design features of a two-stage receptacle and a cantilever mounted locking dimple.



Positive Lock

Positive Lock receptacles are designed with reduced mating forces, and a large locking dimple on a flexible latch. This locking feature acknowledges proper mating with an audible “snap” of the dimple into the mating hole. This enhances safety and reliability of the mated pair for isolated and hard to reach areas. Until the release latch is depressed manually the receptacle cannot be removed.

Hermetic

The Hermetic receptacle is a Premier line receptacle which has been designed to mate with the posted header tabs in hermetic motor applications. This receptacle provides all the features and benefits of the Premier line.

Moldable

The moldable receptacle is available in many of the same configurations shown and is produced without slots or openings in the floor of the receptacle to facilitate over-molding.

Commercial

The commercial receptacles, with their abbreviated roll construction, conserve stock, have generally higher insertion forces and somewhat lower tolerance for general abuse.

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FASTON Specifications

Operating Temperatures of Materials and Finishes

FASTON Terminals are made available in brass and phosphor bronze which can be plated with tin or silver. The line also includes a selection of nickel-plated steel tabs and receptacles. Certain products are available in either pre-tin or tin-plated. Tin plate is the electro-depositing of tin on base metal over the entire surface of the terminal following the fabrication of the terminal. Pre-tin plate is the plating of tin on base metal prior to fabrication which produces exposed base metal in the terminal edge areas after stamping.

Brass

Plain

Allowable Connection Temperature* — 110°C.

Plain brass is used frequently, where applications have optimal environmental conditions.

Tin Plated

Allowable Connection Temperature — 110°C.

Tin plating of receptacle and tab improves operation at higher temperatures, and in addition protects the connection against corrosion.

Silver Plated

Allowable Connection Temperature — 130°C.

Silver plated connections allow the highest operating temperature for brass and a higher current-carrying capacity.

* Allowable Connection Temperature is the ambient temperature plus temperature rise of the terminal at normal operating conditions.

Phosphor Bronze

Plain

Allowable Connection Temperature — 110°C.

Phosphor bronze is used in applications where brass would normally be corroded, for example the various freezing mixtures and ammonias.

Tin Plated

Allowable Connection Temperature — 110°C.

Tin plating of receptacle and tab improves operation at higher temperatures, and in addition protects the connection against corrosion.

Silver Plated

Allowable Connection Temperature — 130°C.

Silver plated connections allow the highest operating temperature for phosphor bronze and higher current-carrying capacity.

Steel

Nickel Plated

Allowable Connection Temperature — 250°C.

This combination allows a reliable connection at high temperatures, for example in stoves, cooking appliances, etc. For optimum performance, these nickel-plated receptacles are used with compatible lead wires and tabs that can be welded to heating units.

Plastics (Insulation)

Material Temperature Rating —

The following list shows various plastics and their application temperatures.

High Temp. Polyamide (Nylon) . . . . . 150°C
Polyamide, (Nylon) . . . 125°C
Polypropylene . . . . . 105°C
Polyester . . . . . 90°C
Polyethylene . . . . . 75°C
A.B.S. . . . . 70°C
PVC . . . . . 60°C

Note: For information related to Glow Wire temperature ratings, contact Tyco Electronics Engineering.

Stress Relieving of Brass or Steel Receptacles

The process of stress relieving is unique to Tyco Electronics quick connects and is most commonly used in the production of those receptacles designated as Premier line, including Ultra-Fast, Ultra-Fast Plus FASTON and PIDG receptacles. Stress is introduced into copper alloy or steel terminals during the stamping process. When metal strip is formed into the receptacle, the material is deformed beyond its yield stress to form it into its new shape. This forming operation leaves a residual stress in the grain structure. The orientations and magnitudes of the forming stresses are complex, but can exist in the same direction as the applied load. Thus, residual stresses can reduce the force necessary to open the receptacle during the tab insertion. Stress relieving the terminal restores the elastic spring properties and improves receptacle performance by reducing the residual stresses. After stress relieving, the receptacle resists opening when a tab is inserted, especially where difficult or awkward mating situations may cause mechanical abuse.

FASTON Test Specifications

Test Specifications

The following information and related charts are taken from the qualification requirements as defined in UL-310, the Safety Standard for Electrical Quick-Connect Terminals. Throughout this catalog, when a reference is made to a part being UL Listed, that part has been qualified to the standards shown in these charts.

Temperature Rise and Millivolt Drop

The temperature rise and millivolt drop characteristics are the lowest in the industry. They comply with safety requirements and exhibit extreme stability during extended time tests.

When using FASTON terminals, the allowable connection temperatures can be adjusted, based on the application, by considering actual current(s) and related temperature rise, time at this temperature, humidity, corrosion environment, vibration, base metal, plating (if any), and other environmental considerations.

Test Parameters for FASTON Terminals (Based on UL-310 Temperature Rise and Current Requirements)

Contact Size	Wire Size (Strand Count)	Continuous Current	Intermittent Current
250 Series	10 (105)	24	48
	12 (65)	20	40
	14 (41)	15	30
205 Series	16 (26)	10	20
	18 (16)	7	14
187 Series	20 (10)	4	8
	22 (7)	3	6
110 Series	16 (26)	5	10
	18 (16)	4	8
	20 (10)	3	6
	22 (7)	2	4

Note: This information applies only to UL listed (UL) terminals. A part with a Component Recognition (cUL) status deviates from the electrical or other requirements defined in the UL-310 safety standard.

This table can be used as a guide for selecting a characteristic such as Contact Size, Wire Size, or Current (either Continuous or Intermittent Operating Current) when the other two are known. This table also identifies the possible receptacle sizes available for a given wire size. The continuous current column highlights the maximum current that should be applied to a given receptacle and wire combination to meet a 30°C maximum temperature rise. Intermittent Current can be defined as a one hour cycle consisting of 45 minutes on and 15 minutes off. The temperature rise of the connector using the intermittent current on the corresponding wire size will be less than 85° C. The wire used in the testing to meet these electrical requirements is tin plated copper with stranding as indicated above in parentheses for terminals intended for internal wiring connections.

Tensile Strength (forces for crimp pull-out)

Maximum tensile strength of the wire to terminal connection does not insure reliable electrical performance. An acceptable compromise between maximum tensile strength and electrical stability is recommended.

Normally the tensile strength is much greater than the force required to disconnect the tab from the receptacle; therefore, no difficulties or hazards are encountered.

Forces for Crimp Pull-out Test (UL-310 Specification)

Wire Size		Minimum Force	
AWG	(mm^2)	pounds	N
22	0.32	8	36
20	0.52	13	58
18	0.82	20	89
16	1.3	30	133
14	2.1	50	223
12	3.3	70	311
10	5.3	80	356

The forces shown for the crimp pull out test represent the minimum force required to separate the wire from the crimped terminal in an axis parallel to the wire exit direction from the contact. This force does not include the holding force of the insulation crimp (if applicable).

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FASTON Test Specifications (Continued)

Insertion and Withdrawal Forces for Engagement-Disengagement

The UL-310 Safety Standard defines a broad range for the insertion and extraction value of each connector series. Many of the FASTON product families (such as Premier line, Budget line, Low Insertion Force type, etc.) have been designed for specific applications and to address forces within the overall range as defined in the chart.

Insertion and Withdrawal Forces for Engagement-Disengagement Test (UL-310 Specification)

Tab Size	Force, pounds (N)					
	First Insertion, Maximum Individual	First withdrawal			Sixth withdrawal	
		Maximum	Minimum		Minimum	
			Average	Individual	Average	Individual
Test Tab and Unplated Connector						
.250 6.30	18 (80)	18 (80)	6 (27)	4 (18)	5 (22)	4 (18)
.205 5.20	15 (67)	20 (89)	5 (22)	3 (13)	3 (13)	2 (9)
.187 4.80						
.125 3.20	12 (53)	14 (62)	3 (13)	2 (9)	2 (9)	1 (4)
.110 2.80						
Test Tab and Tin-plated Connector						
.250 6.30	17 (76)	17 (76)	5 (22)	3 (13)	4 (18)	3 (13)
.205 5.20	15 (67)	20 (89)	5 (22)	3 (13)	3 (13)	2 (9)
.187 4.80						
.125 3.20	12 (53)	14 (62)	3 (13)	2 (9)	2 (9)	1 (4)
.110 2.80						

This chart show the forces required to engage and disengage a connector from a plain brass test tab (tab for mechanical testing as shown in the tab section of this catalog). The force is measured with a testing device capable of holding the reading and providing accurate alignment with slow and steady engagement and disengagement of the connector and test tab.

Vibration Resistance

In applications where conductors are subjected to flexing at termination points, circuit failure is avoided because resistance to vibration is assured through Tyco Electronics insulation support, even on conductors with oversized insulation.

Wire Range

FASTON Receptacles are available in various wire ranges from 26-10 AWG, depending on series size. The chart below is designed to show our recommended two-wire combinations.

Recommended Two-Wire Combinations

Wire Ranges																
8-10	12-10	14-10	14-12	16-12	16-14	18-12	18-14 (2) 16	(2) 18 (2) 16	18-14	18-16	20-14	20-16 (2) 18	20-16	20-18	22-16	22-18
Two-Wire Combinations																
10-22[1]	12-22[1]	14-14	18-16	16-22	18-18	18-18	16-16	16-16	22-18	18-22[1]	20-22	18-18	20-18	20-20	18-22[1]	20-20[1]
10-20	12-20	14-16	18-14	16-20	18-20	18-16	16-22[1]	18-18	20-18	18-20	20-20	18-20	20-20	20-22[1]	18-20	22-22
10-18	12-18	14-18	16-16	16-18	16-22[1]	18-14	16-20	16-18[1]	18-18	18-18	20-18	20-20	22-18[1]	22-22	20-20	
10-16	12-16	14-20	14-22[1]	16-16	16-20	18-20	16-18		20-20	20-20	20-16	22-20	22-22		20-22	
10-14	14-16	14-22	14-20	18-18	18-22	18-18			20-16	18-22	18-22[1]	22-20				
12-14	14-14	16-16		18-20		16-22	18-20		22-16[1]		18-18					
	14-12	16-18		18-14		16-20	18-22				18-16					
		16-12		20-14		16-16	20-20				16-22[1]					
		18-12				14-22[1]	20-22									
		20-12		22-14[1]		14-20										
		22-12[1]														

[1] Min/Max Wire Size Combinations

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FASTON Receptacles

Product Facts

- **Full line of Premier, Budget, LIF, moldable and hermetic uninsulated receptacles**
- **Straight, right-angle and receptacle and tab combinations available**
- **Receptacles available in .312, .250, .205, .187, .125 and .110 sizes**
- **Available in 8-30 AWG wire ranges**
- **Receptacles mate with .032 and .020 thick tabs**
- **Available with or without secondary wire support**
- **Base materials brass, phosphor bronze and steel available**
- **Tin, silver and nickel-plated products available**
- **Products designed and manufactured to meet UL 310 specifications**
- **Products designed and manufactured to meet CSA C22.2 specifications**

Tyco Electronics offers a full line of Uninsulated quick connects. We offer products for a wide variety of applications in almost every market and industry we serve. It is important to choose the correct terminal for each application. The following is a list of application specific characteristics that must be considered when determining the best terminal for each individual application.

Mating Tab
Size (312, 250, 205, 187, 110, etc.)

Wire Type
Magnet or Stranded

Wire Orientation
Straight or Flag

Temperature/Environment
Base metal
Plating requirements

Insulator required
Pre-insulated
Housing required

Agency Approvals
(UL/CSA)

Application
Continuous Strip or
Loose Piece

Special Applications
Moldable
Hermetic
Printed Circuit Board
Piggyback (Straight/Flag)
Reversible Flags
Center Strip
Positive Locking

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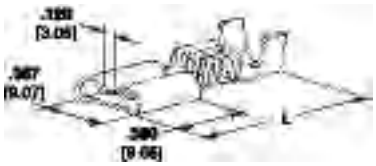
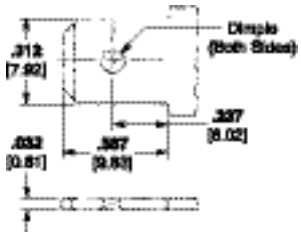
312 Series Receptacles

Straight Receptacles, Insulation Support



A — Premier Line



Mating 312 Series Tab Dimensions
Dimple (Both Sides)

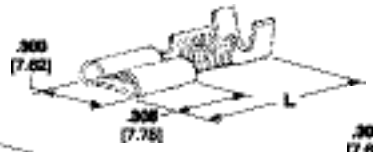
Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	SEMKO	Terminal Part Number
18-14	A	.032 0.81	.090-.120 2.29-3.05	Brass	.016 0.41	.900 22.86	—	X	X	62092-1
16-12	A	.032 0.81	.160 4.06 or (2) .110 2.79	Brass, Tin plated	.016 0.41	.900 22.86	—	X	X	61399-1
		.032 0.81	.160 4.06 or (2) .110 2.79	Brass, Silver Plated	.016 0.41	.900 22.86	—	X	X	63225-2
		.032 0.81	.160 4.06 or (2) .110 2.79	Brass, Tin plated	.016 0.41	.900 22.86	—	X	X	63677-1[1]
		.032 0.81	.160 4.06 or (2) .110 2.79	Brass	.016 0.41	.900 22.86	—	X	X	63677-2[1]
14-10	A	.032 0.81	.150-.200 3.81-5.08	Brass, Silver Plated	.018 0.46	.900 22.86	—	X	X	63820-1

[1] Low Insertion Force

250 Series Receptacles

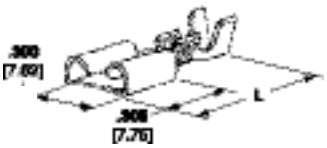
Straight Receptacles, Insulation Support

A — Premier Line



B — Budget Line

C — Economy Line



D — Moldable Line

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	SEMKO	Terminal Part Number
26-22	C	.032 0.81	.040-.060 1.02-1.52	Brass	.016 0.41	.755 19.18	X[1]	—	X[1]	61202-1
24-20	A	.032 0.81	.030-.070 0.76-1.78	Brass, Tin Plated	.016 0.41	.755 19.18	X[2]	—	X[2]	61368-1
22-18	A	.032 0.81	.060-.100 1.52-2.54	Brass	.016 0.41	.755 19.18	X	—	X	42640-1
		.032 0.81	.060-.100 1.52-2.54	Brass, Tin Plated	.016 0.41	.755 19.18	X	—	X	42640-2
		.032 0.81	.090-.130 2.29-3.30	Brass	.016 0.41	.755 19.18	X	—	X	41771
		.032 0.81	.090-.130 2.29-3.30	Brass, Tin Plated	.016 0.41	.755 19.18	X	—	X	41772
	B	.032 0.81	.090-.130 2.29-3.30	Brass	.016 0.41	.755 19.18	X	—	X	42510-1
		.032 0.81	.090-.130 2.29-3.30	Brass, Tin Plated	.016 0.41	.755 19.18	X	—	X	42510-2
	C	.032 0.81	.090-.130 2.29-3.30	Brass	.016 0.41	.755 19.18	X	—	X	42743-1
		.032 0.81	.090-.130 2.29-3.30	Brass, Tin Plated	.016 0.41	.755 19.18	X	—	X	42743-2
	D	.032 0.81	.090-.130 2.29-3.30	Brass, Tin Plated	.016 0.41	.750 19.05	—	—	—	63127-1

[1] UL listed and CSA certified for 22 AWG.
[2] UL listed and CSA certified for 22-20 AWG.
[3] Mates with a .020 [0.51] thick tab.
[4] 9,600 CMA max.
[5] UL/CSA - 10 AWG only.
[6] .012 [.030] stock (multiple circuit housings).
[7] Stress relieved.
[8] Recommended for external use only.
[9] Recommended for internal or external use.

Catalog 82004
Revised 7-06

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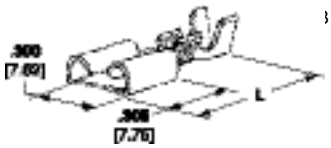
250 Series Receptacles (Continued)

Straight Receptacles, Insulation Support (Continued)

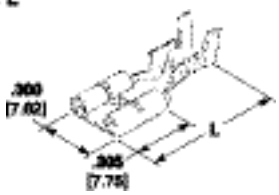
A — Premier Line

B — Budget Line

C — Economy Line



D — Moldable Line



E — Low Insertion Force

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	SEMKO	Terminal Part Number
22-18	E	.032 0.81	.090-.130 2.29-3.30	Brass	.016 0.41	.755 19.18	X	—	X	63693-1[7]
		.032 0.81	.090-.130 2.29-3.30	Brass	.016 0.41	.755 19.18	X	—	X	63609-1
		.032 0.81	.090-.130 2.29-3.30	Brass, Tin Plated	.016 0.41	.755 19.18	X	—	X	63609-2
20-14	B	.032 0.81	.085-.135 2.16-3.43	Brass	.012 0.31	.755 19.18	—	—	—	63648-1[6]
		.032 0.81	.085-.135 2.16-3.43	Brass, Tin Plated	.012 0.31	.755 19.18	—	—	—	63648-2[6]
18-14	A	.020 0.51	.120-.170 3.05-4.32	Brass, Tin Plated	.018 0.46	.755 19.18	X	—	X	63655-1[3]
		.032 0.81	.060-.110 1.52-2.79	Brass, Tin Plated	.018 0.46	.755 19.18	X	—	X	61375-1
		.032 0.81	.060-.110 1.52-2.79	Steel, Nickel Plated	.016 0.41	.755 19.18	—	—	—	63688-1
		.032 0.81	.120-.170 3.05-4.32	Steel, Nickel Plated	.016 0.41	.755 19.18	—	X	X	42219-1
		.032 0.81	.120-.170 3.05-4.32	Brass	.018 0.46	.755 19.18	X	—	X	41202
		.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.018 0.46	.755 19.18	X	—	X	41274
	B	.032 0.81	.120-.160 3.05-4.06	Brass	.012 0.31	.750 19.05	X	—	X	63089-1[6,7]
		.032 0.81	.120-.170 3.05-4.32	Brass	.016 0.41	.750 19.05	X	—	X	42400-1
		.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.016 0.41	.750 19.05	X	—	X	42400-2
		.032 0.81	.120-.170 3.05-4.32	Brass, Silver Plated	.016 0.41	.755 19.18	X	—	X	61107-1[7]
	C	.032 0.81	.120-.170 3.05-4.32	Brass	.016 0.41	.755 19.18	X	—	X	42660-1
		.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.016 0.41	.755 19.18	X	—	X	42660-2
		.032 0.81	.150-.210 3.81-5.33	Brass	.016 0.41	.780 19.81	X	—	X	42692-1
		.032 0.81	.150-.210 3.81-5.33	Brass, Tin Plated	.016 0.41	.780 19.81	X	—	X	42692-2
	D	.032 0.81	.120-.170 3.05-4.32	Brass	.016 0.41	.750 19.05	X	—	X	60650-1
		.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.016 0.41	.750 19.05	X	—	X	60650-2
		.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.018 0.46	.750 19.05	X	—	X	63500-1[7]
	E	.020 0.51	.120-.170 3.05-4.32	Brass, Tin Plated	.018 0.46	.775 19.69	X	—	X	63993-1[3,7]
		.032 0.81	.120-.170 3.05-4.32	Brass	.018 0.46	.755 19.18	X	—	X	63537-1[7]
		.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.018 0.46	.755 19.18	X	—	X	63537-2[7]
		.032 0.81	.120-.170 3.05-4.32	Steel, Nickel Plated	.016 0.41	.755 19.18	—	X	X	63674-1[7]

[1] UL listed and CSA certified for 22 AWG.
[2] UL listed and CSA certified for 22-20 AWG.
[3] Mates with a .020 [0.51] thick tab.
[4] 9,600 CMA max.
[5] UL/CSA - 10 AWG only.
[6] .012 [.030] stock (multiple circuit housings).
[7] Stress relieved.
[8] Recommended for external use only.
[9] Recommended for internal or external use.

Catalog 82004
Revised 7-06

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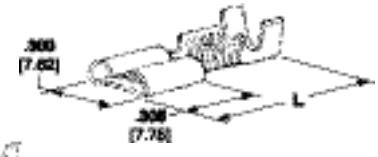
Japan: 81-44-844-8013
UK: 44-208-420-8341

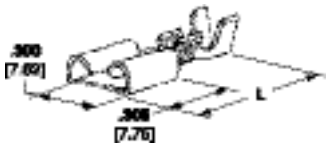
250 Series Receptacles (Continued)

Straight Receptacles, Insulation Support (Continued)

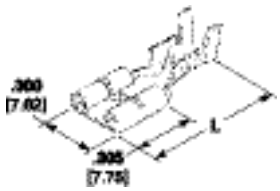
A — Premier Line



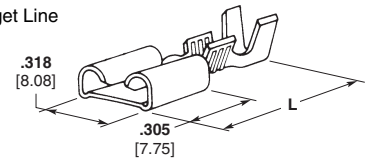
B — Budget Line



D — Moldable Line



E — Low Insertion Force



F — Premier Line for Hermetic Tabs

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	SEV	Terminal Part Number
18-14	E	.032 0.81	.120-.170 3.05-4.32	Brass	.016 0.41	.755 19.18	X	—	X	63306-1
		.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.016 0.41	.755 19.18	X	—	X	63306-2
	F	.032 0.81	.120-.170 3.05-4.32	Brass	.018 0.46	.750 19.05	X	—	X	62500-1[8]
		.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.018 0.46	.750 19.05	X	—	X	62500-2[8]
		.032 0.81	.120-.170 3.05-4.32	Phos Brz, Tin Plated	.018 0.46	.750 19.05	X	—	X	41774[9]
16-12 (2) 16	B	.032 0.81	.160-.210 4.06-5.33 (2) .130 3.30	Brass	.016 0.41	.750 19.05	X	—	X	63896-1
16-12	A	.032 0.81	.210-.265 5.33-6.73	Steel, Nickel Plated	.018 0.46	.830 21.08	—	X	X	42579-1
16-12 (2) 18	A	.032 0.81	.210-.265 5.33-6.73 (2) .120 Max. 3.05	Brass	.018 0.46	.820 20.93	X	—	X	41727
				Brass, Tin Plated	.018 0.46	.820 20.93	X	—	X	41728
	E	.032 0.81	.210-.265 5.33-6.73 (2) .120 Max. 3.05	Brass	.018 0.46	.755 19.18	X	—	X	63757-1
				Steel, Nickel Plated	.018 0.46	.755 19.18	—	X	X	63757-2
14-10	A	.032 0.81	.150-.200 3.81-5.08	Brass	.018 0.46	.770 19.56	X	—	X	41449[4]
		.032 0.81	.150-.200 3.81-5.08	Brass, Tin Plated	.018 0.46	.770 19.56	X	—	X	41450[4]
	B	.032 0.81	.150-.200 3.81-5.08	Brass, Silver Plated	.018 0.46	.750 19.05	X	—	X	61095-1[4]
	E	.032 0.81	.150-.200 3.81-5.08	Brass, Silver Plated	.018 0.46	.755 19.18	X	—	X	63435-1[4,7]
		.032 0.81	.150-.200 3.81-5.08	Brass	.018 0.46	.775 19.69	X	—	X	63365-1[4]
		.032 0.81	.150-.200 3.81-5.08	Brass, Tin Plated	.018 0.46	.775 19.69	X	—	X	63365-2[4]
	F	.032 0.81	.150-.200 3.81-5.08	Brass, Tin Plated	.018 0.46	.770 19.56	X	—	X	42437-2[4,8]
		.032 0.81	.150-.200 3.81-5.08	Phos Brz, Tin Plated	.018 0.46	.770 19.56	X	—	X	42437-5[4,9]
14-10 (2) 14	A	.032 0.81	.225-.275 5.72-6.99 (2) .140 3.56	Brass, Tin Plated	.018 0.46	.775 19.69	X	—	X	60635-1[4]
				Brass, Silver Plated	.018 0.46	.775 19.69	X	—	X	60635-2[4]
				Brass	.018 0.46	.775 19.69	X	—	X	60635-3[4]
	D	.032 0.81	.225-.275 5.72-6.99 (2) .140 3.56	Brass, Tin Plated	.018 0.46	.750 19.05	—	—	—	63419-1[4,7]

[1] UL listed and CSA certified for 22 AWG.
[2] UL listed and CSA certified for 22-20 AWG.
[3] Mates with a .020 [0.51] thick tab.
[4] 9,600 CMA max.
[5] UL/CSA - 10 AWG only.
[6] .012 [.030] stock (multiple circuit housings).
[7] Stress relieved.
[8] Recommended for external use only.
[9] Recommended for internal or external use.

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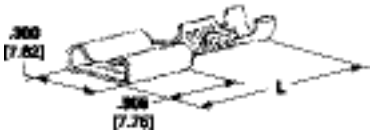
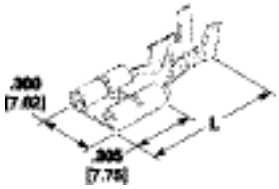
250 Series Receptacles (Continued)

Straight Receptacles, Insulation Support (Continued)



A — Premier Line

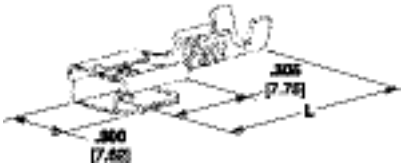


E —
Low Insertion Force

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	SA	Terminal Part Number
14-10 (2) 14	E	.032 0.81	.225-.275 5.72-6.99 (2) .140 3.56	Brass, Tin Plated	.018 0.46	.755 19.18	X	—	X	63539-1[4,7]
12-10	A	.032 0.81	.150-.220 3.81-5.59	Brass, Tin Plated	.018 0.46	.775 19.69	X	—	X	62428-2
		.032 0.81	.150-.220 3.81-5.59	Phos Brz, Tin Plated	.018 0.46	.775 19.69	X	—	X	62428-3
10-8	A	.032 0.81	.230-.280 5.84-7.11 or (2) .160 4.06	Brass, Tin Plated	.018 0.46	.775 19.69	X	—	X	62998-2[5]

[1] UL listed and CSA certified for 22 AWG.
[2] UL listed and CSA certified for 22-20 AWG.
[3] Mates with a .020 [0.51] thick tab.
[4] 9,600 CMA max.
[5] UL/CSA - 10 AWG only.
[6] .012 [.030] stock (multiple circuit housings).
[7] Stress relieved.
[8] Recommended for external use only.
[9] Recommended for internal or external use.

Receptacle and Tab Combinations



A — Economy Line

B — Economy Line
Non-Insulation Support

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	SA	Terminal Part Number
22-18	A	.032 0.81	.060-.100 1.52-2.79	Brass	.015 0.38	.770 19.56	X	—	X	61988-1
		.032 0.81	.060-.100 1.52-2.79	Brass, Tin Plated	.015 0.38	.770 19.56	X	—	X	61988-2
		.032 0.81	.060-.100 1.52-2.79	Brass, Tin Plated	.015 0.38	.770 19.56	X	—	X	61988-3[2]
18-14	A	.032 0.81	.120-.170 3.05-4.32	Brass	.015 0.38	.770 19.56	X	—	X	61944-1
		.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.015 0.38	.770 19.56	X	—	X	61944-2
		.032 0.81	.120-.170 3.05-4.32	Brass	.032-.016 0.81-0.41	.770 19.56	X	—	X	62109-1[1]
		.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.032-.016 0.81-0.41	.770 19.56	X	—	X	62109-2[1]
		.032 0.81	.120-.170 3.05-4.32	Brass	.015 0.38	.770 19.56	X	—	X	62223-1[2]
		.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.015 0.38	.770 19.56	X	—	X	62223-2[2]
	B	.032 0.81	—	Pre-Tin Brass	.015 0.38	.610 15.49	X	—	X	62276-1
14-10	A	.032 0.81	.150-.200 3.81-5.08	Brass	.015 0.38	.770 19.56	X	—	X	62253-1[3]
		.032 0.81	.150-.200 3.81-5.08	Brass, Tin Plated	.015 0.38	.770 19.56	X	—	X	62253-2[3]
		.032 0.81	.150-.200 3.81-5.08	Brass, Tin Plated	.032-.016 0.81-0.41	.770 19.56	X	—	X	1217043-1[1,3]
	B	.032 0.81	—	Pre-Tin Brass	.015 0.38	.610 15.49	X	—	X	62068-1[3]

[1] Dual Thickness.
[2] Stress relieved.
[3] 9600 CMA Max.

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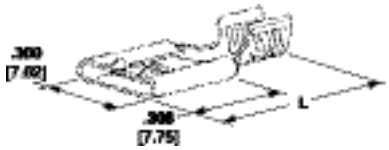
UK: 44-208-420-8341

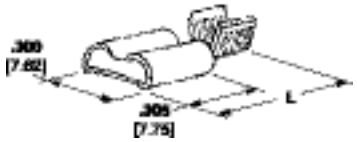
250 Series Receptacles (Continued)

Straight Receptacles, Non-Insulation Support

A — Premier Line



B — Economy Line



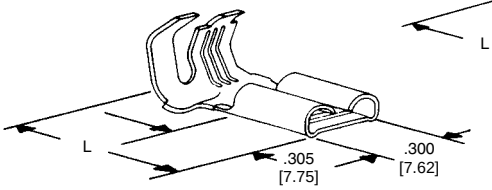
C — Moldable Line

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part Number
18-14	A	.032 0.81	—	Brass, Tin Plated	.018 0.46	.655 16.64	X	—	X	41194
		.032 0.81	—	Steel, Nickel Plated	.018 0.46	.655 16.64	—	X	X	41143-1
	B	.032 0.81	—	Brass	.016 0.41	.595 15.11	X	—	X	42845-1
		.032 0.81	—	Brass, Tin Plated	.016 0.41	.595 15.11	X	—	X	42845-2
	C	.032 0.81	—	Brass	.016 0.41	.655 16.64	X	—	X	60938-1
		.032 0.81	—	Brass, Tin Plated	.016 0.41	.655 16.64	X	—	X	60938-2
		.032 0.81	—	Brass, Tin Plated	.016 0.41	.655 16.64	—	—	—	63981-1[1]

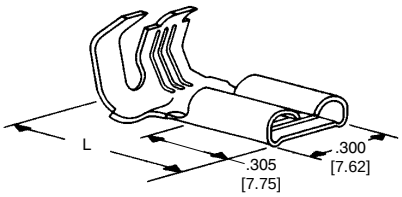
[1] 9600 CMA Max.

250 Series Tab-Lok Flags

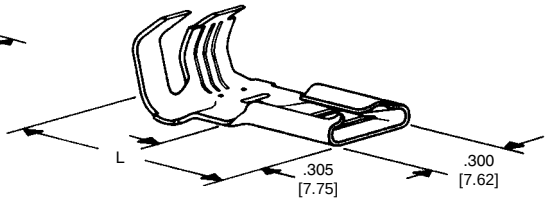
Flag Receptacles, Insulation Support



A — Premier Line



B — Budget Line

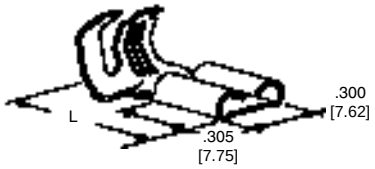


C — Economy Line

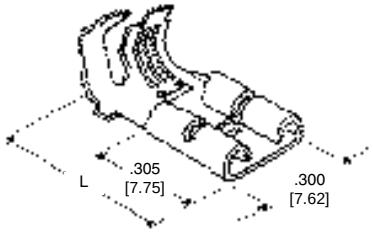
Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part Number
22-16	C	.032 0.81	.070- .130 1.78-3.30	Brass	.016 0.41	.670 17.02	X	—	X	63577-1
18-12	A	.032 0.81	.110-.210 2.79-5.33	Brass	.018 0.46	.670 17.02	X	—	X	41531
		.032 0.81	.110-.210 2.79-5.33	Brass, Tin Plated	.018 0.46	.670 17.02	X	—	X	41532
		.032 0.81	.110-.210 2.79-5.33	Brass, Silver Plated	.018 0.46	.670 17.02	X	—	X	61156-1
		.032 0.81	.110-.210 2.79-5.33	Steel, Nickel Plated	.018 0.46	.670 17.02	—	X	X	41531-1
		.032 0.81	.110-.210 2.79-5.33	Steel, Nickel Plated	.016 0.41	.670 17.02	—	X	X	42404-1
	B	.032 0.81	.110-.210 2.79-5.33	Brass	.016 0.41	.670 17.02	X	—	X	42511-1
		.032 0.81	.110-.210 2.79-5.33	Brass, Tin Plated	.016 0.41	.670 17.02	X	—	X	42511-2
	C	.032 0.81	.110-.210 2.79-5.33	Brass	.016 0.41	.670 17.02	X	—	X	42742-1
		.032 0.81	.110-.210 2.79-5.33	Brass, Tin Plated	.016 0.41	.670 17.02	X	—	X	42742-2

250 Series Tab-Lok Flags (Continued)

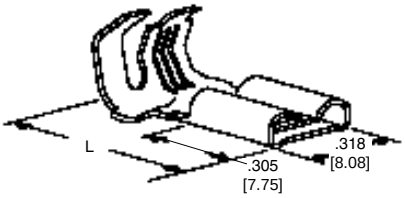
Flag Receptacles, Insulation Support (Continued)



D — Moldable Line



E — Low Insertion Force (LIF)



F — Premier Line for Hermetic Tabs

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	VDE	Terminal Part Number
18-12	D	.032 0.81	.110-.210 2.79-5.33	Brass	.018 0.46	.670 17.02	X	—	X	60645-1[2]
		.032 0.81	.110-.210 2.79-5.33	Brass	.016 0.41	.670 17.02	X	—	X	60641-1
	E	.032 0.81	.110-.210 2.79-5.33	Brass	.016 0.41	.670 17.02	X	—	X	63445-1
		.032 0.81	.110-.210 2.79-5.33	Brass, Tin Plated	.016 0.41	.670 17.02	X	—	X	63445-2
		.032 0.81	.110-.210 2.79-5.33	Brass, Tin Plated	.016 0.41	.670 17.02	X	—	X	63445-4[2]
		.032 0.81	.110-.210 2.79-5.33	Steel, Nickel Plated	.016 0.41	.670 17.02	—	X[1]	X[1]	63604-1[2]
		.032 0.81	.110-.210 2.79-5.33	Brass	.018 0.46	.670 17.02	X	—	X	63555-1[2]
		.032 0.81	.110-.210 2.79-5.33	Brass, Tin Plated	.018 0.46	.670 17.02	X	—	X	63555-2[2]
	F	.032 0.81	.110-.210 2.79-5.33	Phos Bronze, Tin Plated	.018 0.46	.670 17.02	X	—	X	41800[4]
		.032 0.81	.110-.210 2.79-5.33	Brass	.018 0.46	.670 17.02	X	—	X	41801[3]
		.032 0.81	.110-.210 2.79-5.33	Brass, Tin Plated	.018 0.46	.670 17.02	X	—	X	41802[3]
		.032 0.81	.110-.210 2.79-5.33	Phos Bronze, Silver Plated	.018 0.46	.670 17.02	X	—	X	42041[4]
		.032 0.81	.110-.210 2.79-5.33	Phos Bronze, Tin Plated	.018 0.46	.670 17.02	X	—	X	60274-2[4,5]
		.032 0.81	.110-.210 2.79-5.33	Phos Bronze, Tin Plated	.018 0.46	.670 17.02	X	—	X	63651-1[4,6]
12-10	F	.032 0.81	.110-.210 2.79-5.33	Brass, Tin Plated	.018 0.46	.670 17.02	X	—	X	60851-1[3]
		.032 0.81	.110-.210 2.79-5.33	Brass, Silver Plated	.018 0.46	.670 17.02	X	—	X	60851-2
		.032 0.81	.110-.210 2.79-5.33	Phos Bronze, Silver Plated	.018 0.46	.670 17.02	X	—	X	42563-6[4]
		.032 0.81	.110-.210 2.79-5.33	Steel, Nickel Plated	.018 0.46	.670 17.02	—	—	—	42563-9
		.032 0.81	.110-.210 2.79-5.33	Phos Bronze, Tin Plated	.018 0.46	.670 17.02	X	—	X	42563-8[4]
		.032 0.81	.110-.265 2.79-6.73	Brass	.018 0.46	.670 17.02	X	—	X	63617-1[6]

[1] 18 Gage only.
[2] Stress relieved.
[3] Recommended for external use only.
[4] For internal or external use.
[5] Left handed flag.
[6] Non-stress relieved.

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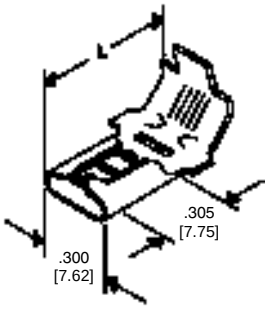
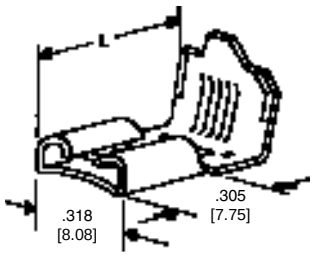
Japan: 81-44-844-8013
UK: 44-208-420-8341

250 Series Tab-Lok Flags (Continued)

Flag Receptacles, Non-Insulation Support



A — Economy Line



B — Premier Line
for Hermetic Tabs

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part Number
18-12	A	.032 0.81	—	Brass, Pre-Tin Plated	.016 0.41	.600 15.24	X	—	X	61177-2[3]
		.032 0.81	—	Brass, Pre-Tin Plated	.016 0.41	.600 15.24	X	—	X	61177-3[4]
		.032 0.81	—	Brass	.016 0.41	.600 15.24	X	—	X	62091-1[5]
		.032 0.81	—	Brass, Pre-Tin Plated	.016 0.41	.600 15.24	X	—	X	62091-2[5]
	B	.032 0.81	—	Pho. Brz, Silver Plated	.018 0.46	.610 15.49	X	—	X	62021-1[5]
		.032 0.81	—	Brass, Tin Plated	.018 0.46	.610 15.49	X	—	X	62021-3[5]
		.032 0.81	—	Pho. Brz, Silver Plated	.018 0.46	.600 15.24	X	—	X	62056-1[1,3]
		.032 0.81	—	Pho. Brz, Silver Plated	.018 0.46	.600 15.24	X	—	X	62056-2[1,2,4]
		.032 0.81	—	Pho. Brz, Tin Plated	.018 0.46	.600 15.24	X	—	X	62056-6[2,3]
		.032 0.81	—	Pho. Brz, Tin Plated	.018 0.46	.600 15.24	X	—	X	62056-7[1,2,4]
		.032 0.81	—	Brass, Tin Plated	.018 0.46	.600 15.24	X	—	X	62056-3[2,3]
		.032 0.81	—	Brass, Tin Plated	.018 0.46	.600 15.24	X	—	X	62056-4[4]
12-10 or (2) 14	A	.032 0.81	—	Brass	.016 0.41	.670 17.02	X	—	X	62011-1[5]
		.032 0.81	—	Brass, Pre-Tin Plated	.016 0.41	.670 17.02	X	—	X	62011-2[5]
12-10	B	.032 0.81	—	Pho. Brz, Silver Plated	.018 0.46	.670 17.02	X	—	X	62057-1[1,3]
		.032 0.81	—	Brass, Tin Plated	.018 0.46	.670 17.02	X	—	X	62057-3[3]
		.032 0.81	—	Brass, Tin Plated	.018 0.46	.670 17.02	X	—	X	62057-4[4]
		.032 0.81	—	Pho. Brz, Silver Plated	.018 0.46	.670 17.02	X	—	X	62057-7[4]
		.032 0.81	—	Pho. Brz, Silver Plated	.018 0.46	.670 17.02	X	—	X	62022-1[5]
		.032 0.81	—	Brass, Tin Plated	.018 0.46	.670 17.02	X	—	X	62022-2[5]

[1] For internal or external use.
[2] Reverse reel.
[3] Right handed flag.
[4] Left handed flag.
[5] Right or left handed. Carrier out front for thru splicing.

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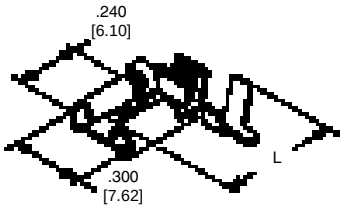
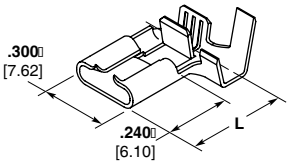
250 Series F-Crimp Flags

Flag Receptacles

A — Premier Line, Insulation Support (Right Hand)



B — Budget Line, Insulation Support (Left Hand)



C — Economy Line, Insulation Support

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part Number
22-18	A	.032 0.81	.060 -.110 1.52-2.79	Brass	.016 0.41	.540 13.72	X	—	X	62813-1[2]
		.032 0.81	.060 -.110 1.52-2.79	Brass, Tin Plated	.016 0.41	.540 13.72	X	—	X	62813-2[2]
		.032 0.81	.060 -.110 1.52-2.79	Brass	.016 0.41	.540 13.72	X	—	X	62814-1[3]
		.032 0.81	.060 -.110 1.52-2.79	Brass, Tin Plated	.016 0.41	.540 13.72	X	—	X	62814-2[3]
	B	.032 0.81	.060 -.110 1.52-2.79	Brass	.016 0.41	.540 13.72	X	—	X	62718-1[3]
		.032 0.81	.060 -.110 1.52-2.79	Brass, Tin Plated	.016 0.41	.540 13.72	X	—	X	62718-2[3]
18-14 or (2)18	A	.032 0.81	.110-.160 2.79-4.06	Brass, Tin Plated	.016 0.41	.540 13.72	X	—	X	63901-1[1,3]
		.032 0.81	.110-.160 2.79-4.06	Brass	.016 0.41	.540 13.72	X	—	X	63901-2[1,2]
		.032 0.81	.110-.200 2.79-5.08	Brass	.016 0.41	.540 13.72	X	—	X	63538-1[1,2]
		.032 0.81	.110-.200 2.79-5.08	Steel, Nickel Plated	.016 0.41	.540 13.72	—	X	X	63963-1[2]
18-14	A	.032 0.81	.110 -.160 2.79-4.06	Brass	.016 0.41	.540 13.72	X	—	X	63011-1[2]
		.032 0.81	.110 -.160 2.79-4.06	Brass, Tin Plated	.016 0.41	.540 13.72	X	—	X	63011-2[2]
		.032 0.81	.110 -.160 2.79-4.06	Brass	.016 0.41	.540 13.72	X	—	X	63012-1[3]
		.032 0.81	.110 -.160 2.79-4.06	Brass, Tin Plated	.016 0.41	.540 13.72	X	—	X	63012-2[3]
	B	.032 0.81	.110 -.160 2.79-4.06	Brass	.016 0.41	.540 13.72	X	—	X	63009-1[2]
		.032 0.81	.110 -.160 2.79-4.06	Brass, Tin Plated	.016 0.41	.540 13.72	X	—	X	63009-2[2]
		.032 0.81	.110 -.160 2.79-4.06	Brass	.016 0.41	.540 13.72	X	—	X	63010-1[3]
		.032 0.81	.110 -.160 2.79-4.06	Brass, Tin Plated	.016 0.41	.540 13.72	X	—	X	63010-2[3]
	C	.032 0.81	—	Brass	.016 0.41	.430 10.92	X	—	X	63508-1[4]
		.032 0.81	.110 -.160 2.79-4.06	Brass	.016 0.41	.540 13.72	X	—	X	63096-1[2]
		.032 0.81	.110 -.160 2.79-4.06	Brass, Tin Plated	.016 0.41	.540 13.72	X	—	X	63096-2[2]

[1] Low Insertion Force.
[2] Left Handed Flag.
[3] Right Handed Flag.
[4] No insulation support.

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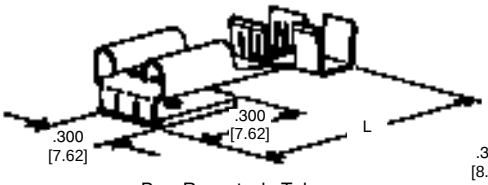
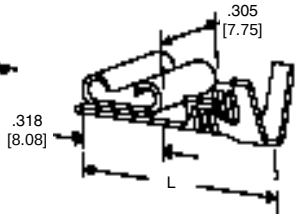
250 Series F-Crimp Flags (Continued)

Flag Receptacles (Continued)

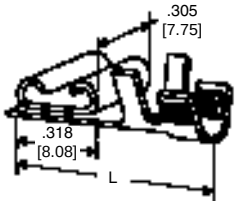
A — Center Strip, F-Crimp



B — Receptacle Tab Combination, F-Crimp



C — Reversible Flag, Straight End Feed



D — Reversible Flag for Hermetic Tabs, Side Feed

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part Number
20-16	D	.032 0.81	.085-.150 2.16-3.81	Phos Brz, Tin Plated	.018 0.46	.640 16.26	X	—	X	63137-1
18-14	A	.032 0.81	—	Brass	.016 0.41	.430 10.92	X	—	X	63315-1[3]
		.032 0.81	—	Brass, Tin Plated	.016 0.41	.430 10.92	X	—	X	63315-2[3]
		.032 0.81	.110-.160 2.79-4.06	Brass	.016 0.41	.540 13.72	X	—	X	63314-1
		.032 0.81	.110-.160 2.79-4.06	Brass, Tin Plated	.016 0.41	.540 13.72	X	—	X	63314-2
	B	.032 0.81	.120-.170 3.05-4.32	Brass, Tin Plated	.016 0.41	.630 16.00	X	—	X	151321-4
	C	.032 0.81	.090-.130 2.29-3.30	Brass	.016 0.41	.710 18.03	X	—	X	62048-1
		.032 0.81	.090-.130 2.29-3.30	Brass, Tin Plated	.016 0.41	.710 18.03	X	—	X	62048-2
		.032 0.81	.170-.220 4.32-5.59	Brass, Tin Plated	.016 0.41	.710 18.03	X	—	X	60764-2
	D	.032 0.81	—	Brass	.018 0.46	.640 16.26	—	—	—	63647-1[1,3]
		.032 0.81	—	Phos Brz, Tin Plated	.018 0.46	.640 16.26	—	—	—	63647-2[1,3]
		.032 0.81	—	Brass, Tin Plated	.018 0.46	.640 16.26	—	—	—	63647-3[1,3]
16-12	D	.032 0.81	.130-.170 3.30-4.32	Phos Brz, Tin Plated	.018 0.46	.640 16.26	X	—	X	61188-1[2]
12-10	D	.032 0.81	.130-.170 3.30-4.32	Phos Brz, Tin Plated	.018 0.46	.640 16.26	X	—	X	61187-1[2]
		.032 0.81	.130-.170 3.30-4.32	Phos Brz, Silver Plated	.018 0.46	.640 16.26	X	—	X	61187-2[2]

[1] No Dimple.
[2] Bends terminal 90°. For 180° bend use applicator 687616-2 with Press 694234-7.
[3] No insulation support.

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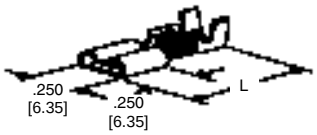
UK: 44-208-420-8341

205 Series Receptacles

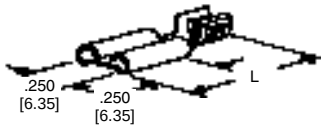
Straight Receptacles



A — Premier Line,
Insulation Support

B — Economy Line,
Insulation Support

C — Premier line
Non-Insulation Support

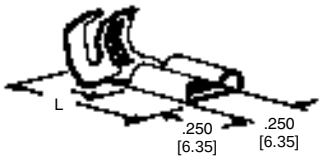


D — Economy Line,
Non-Insulation Support

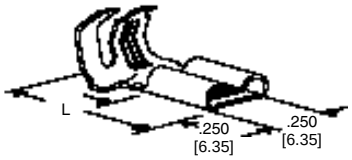
Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	SEV	Terminal Part Number
26-22	A	.020 0.51	.050-.070 1.27-1.78	Brass, Tin Plated	.012 0.31	.620 15.75	X	—	X	60674-1[1]
22-18	A	.020 0.51	.085-.125 2.16-3.18	Brass	.012 0.31	.615 15.62	X	—	X	42198-1
		.020 0.51	.085-.125 2.16-3.18	Brass, Tin Plated	.012 0.31	.615 15.62	X	—	X	42198-2
		.032 0.81	.085-.125 2.16-3.18	Brass, Tin Plated	.012 0.31	.615 15.62	X	—	X	42299-2
	B	.020 0.51	.085-.125 2.16-3.18	Brass	.012 0.31	.615 15.62	X	—	X	42710-1
		.020 0.51	.085-.125 2.16-3.18	Brass, Tin Plated	.012 0.31	.615 15.62	X	—	X	42710-2
		.032 0.81	.085-.125 2.16-3.18	Brass, Tin Plated	.012 0.31	.615 15.62	X	—	X	60904-2
	C	.020 0.51	—	Brass, Tin Plated	.012 0.31	.470 11.94	X	—	X	42197-2[2]
18-14	A	.032 0.81	.130-.180 3.30-4.57	Brass, Tin Plated	.016 0.41	.615 15.62	X	—	X	42233-2
		.032 0.81	.130-.180 3.30-4.57	Phos Brz, Tin Plated	.016 0.41	.615 15.62	X	—	X	42233-7
	B	.020 0.51	.130-.180 3.30-4.57	Brass, Tin Plated	.012 0.31	.615 15.62	X	—	X	42713-2
		.020 0.51	.130-.180 3.30-4.57	Brass, Tin Plated	.016 0.41	.615 15.62	X	—	X	42781-2
	C	.032 0.81	—	Phos Brz, Tin Plated	.016 0.41	.470 11.94	X	—	X	42239-4
	D	.020 0.51	—	Brass, Tin Plated	.012 0.31	.470 11.94	X	—	X	42712-2[2]

[1] UL listed and CSA certified for 22 AWG.
[2] Moldable.

Flag Receptacles



E — Premier Line,
Tab-Lok Flag



F — Economy Line,
Tab-Lok Flag

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	SEV	Terminal Part Number
20-16	E	.020 0.51	.110-.170 2.79-4.32	Brass	.012 0.31	.530 13.46	X	—	X	42199-1
		.020 0.51	.110-.170 2.79-4.32	Brass, Tin Plated	.012 0.31	.530 13.46	X	—	X	42199-2
20-14	E	.020 0.51	.110-.170 2.79-4.32	Brass, Tin Plated	.016 0.41	.530 13.46	X	—	X	62354-1
		.032 0.81	.110-.170 2.79-4.32	Brass, Tin Plated	.016 0.41	.530 13.46	X	—	X	42234-2
	F	.032 0.81	.110-.170 2.79-4.32	Brass	.016 0.41	.530 13.46	X	—	X	60195-1[1]
		.032 0.81	.110-.170 2.79-4.32	Brass, Tin Plated	.016 0.41	.530 13.46	X	—	X	60195-2[1]

[1] Moldable.

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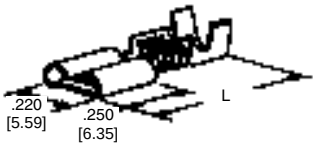
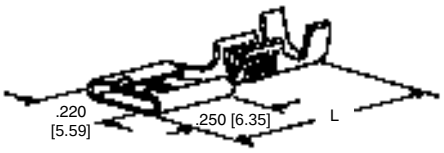
187 Series Receptacles

Straight Receptacles

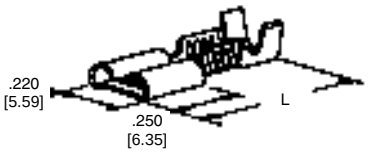
A — Premier Line



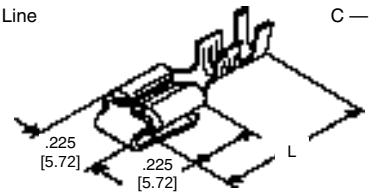
B — Budget Line



C — Economy Line



E — Moldable Line



F — Commercial Line
Receptacle & Tab Combination

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	TÜV	Terminal Part Number
24-20	A	.020 0.51	.040-.070 1.02-1.78	Brass, Tin Plated	.012 0.31	.590 14.99	2X2	—	2X2	60573-1
		.020 0.51	.040-.070 1.02-1.78	Brass	.012 0.31	.590 14.99	2X2	—	2X2	60573-2
		.020 0.51	.040-.070 1.02-1.78	Phos Brz, Tin Plated	.012 0.31	.590 14.99	X	—	X	62187-2
		.020 0.51	.060-.110 1.52-2.79	Brass, Tin Plated	.012 0.31	.585 14.86	2X2	—	2X2	62138-1
		.020 0.51	.060-.110 1.52-2.79	Brass	.012 0.31	.585 14.86	2X2	—	2X2	62138-2
		.021 0.53	.060-.110 1.52-2.79	Brass, Tin Plated	.012 0.31	.590 14.99	—	—	—	1217129-1
		.032 0.81	.040-.070 1.02-1.78	Brass, Tin Plated	.012 0.31	.590 14.99	2X2	—	2X2	62181-1
22-18	B	.032 0.81	.090-.150 2.29-3.81	Brass, Tin Plated	.012 0.31	.585 14.86	X	—	X	63931-1
	C	.020 0.51	.090-.130 2.29-3.30	Brass	.012 0.31	.590 14.99	X	—	X	63347-1
	E	.020 0.51	.090-.130 2.29-3.30	Brass	.012 0.31	.585 14.86	X	—	X	63905-1
	F	.020 0.51	.060-.100 1.52-2.54	Brass, Tin Plated	.014 0.36	.615 15.62	X	—	X	63873-1[5]
		.020 0.51	.090-.130 2.29-3.30	Brass, Tin Plated	.014 0.36	.615 15.62	X	—	X	1217084-1[5]
20-16	A	.015 0.38	—	Brass, Tin Plated	.012 0.31	.470 11.94	—	—	—	42374-2[1]
		.015 0.38	.090-.130 2.29-3.30	Brass, Tin Plated	.012 0.31	.590 14.99	—	—	—	42453-2
		.017 0.43	.090-.130 2.29-3.30	Phos Brz, Silver Plated	.012 0.31	.585 14.86	—	—	—	61084-1
		.020 0.51	—	Brass, Tin Plated	.012 0.31	.470 11.94	X	—	X	42373-2[1]
		.020 0.51	—	Steel, Nickel Plated	.012 0.31	.470 11.94	—	X	X	42373-3[1]
		.020 0.51	.060-.110 1.52-2.79	Brass	.012 0.31	.585 14.86	X	—	X	62137-1
		.020 0.51	.060-.110 1.52-2.79	Brass, Tin Plated	.012 0.31	.585 14.86	X	—	X	62137-2
		.020 0.51	.090-.130 2.29-3.30	Brass	.012 0.31	.590 14.99	X	—	X	42452-1
		.020 0.51	.090-.130 2.29-3.30	Brass, Tin Plated	.012 0.31	.590 14.99	X	—	X	42452-2
		.020 0.51	.090-.130 2.29-3.30	Phos Brz, Tin Plated	.012 0.31	.590 14.99	X	—	X	42452-5
		.020 0.51	.090-.130 2.29-3.30	Steel, Nickel Plated	.012 0.31	.590 14.99	—	X	X	60621-1

[1] No Insulation support.
[2] UL listed and CSA certified for 22- 20 AWG.
[3] Also capable of accepting (2) 20 AWG wires.
[4] Stress relieved.
[5] Tab stock thickness .020 [0.51].

Catalog 82004
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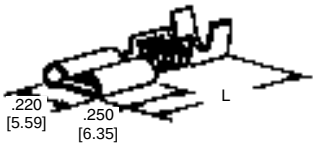
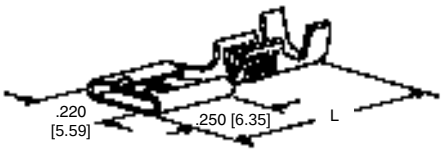
187 Series Receptacles (Continued)

Straight Receptacles (Continued)

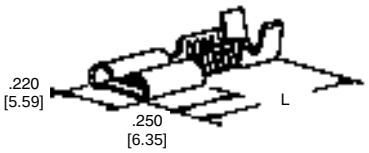
A — Premier Line



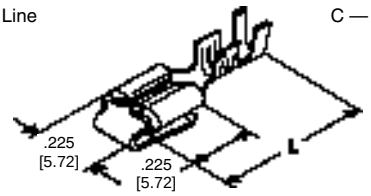
B — Budget Line



C — Economy Line



E — Moldable Line



F — Commercial Line
Receptacle & Tab Combination

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	CSA	Terminal Part Number
20-16	A	.032 0.81	.090-.130 2.29-3.30	Steel, Nickel Plated	.012 0.31	.590 14.99	—	X	X	63850-1
		.032 0.81	.090-.130 2.29-3.30	Brass	.012 0.31	.585 14.86	X	—	X	61758-1
		.032 0.81	.090-.130 2.29-3.30	Brass, Tin Plated	.012 0.31	.585 14.86	X	—	X	61758-2
	B	.020 0.51	.090-.130 2.29-3.30	Brass	.012 0.31	.585 14.86	X	—	X	42617-1
		.020 0.51	.090-.130 2.29-3.30	Steel, Nickel Plated	.012 0.31	.585 14.86	—	X	X	63959-1
		.020 0.51	.090-.130 2.29-3.30	Brass, Tin Plated	.012 0.31	.585 14.86	X	—	X	42617-2
		.032 0.81	—	Brass	.012 0.31	.475 12.07	X	—	X	63785-1[1]
		.032 0.81	.090-.130 2.29-3.30	Brass	.012 0.31	.585 14.86	X	—	X	63477-1
		.032 0.81	.090-.130 2.29-3.30	Brass, Tin Plated	.012 0.31	.585 14.86	X	—	X	63477-2
	C	.020 0.51	—	Brass	.012 0.31	.475 12.07	X	—	X	42799-1[1]
		.020 0.51	—	Brass, Tin Plated	.012 0.31	.475 12.07	X	—	X	42799-2[1]
		.020 0.51	.090-.130 2.29-3.30	Brass	.012 0.31	.590 14.99	X	—	X	42801-1
		.020 0.51	.090-.130 2.29-3.30	Brass, Tin Plated	.012 0.31	.590 14.99	X	—	X	42801-2
		.020 0.51	.090-.130 or (2) .090 2.29-3.30 or (2) 2.29	Brass	.012 0.31	.590 14.99	X	—	X	61892-1[3]
		.032 0.81	—	Brass, Tin Plated	.012 0.31	.475 12.07	X	—	X	61969-1[1]
		.032 0.81	.090-.130 2.29-3.30	Brass	.012 0.31	.590 14.99	X	—	X	60196-1
		.032 0.81	.090-.130 2.29-3.30	Brass, Tin Plated	.012 0.31	.590 14.99	X	—	X	60196-2
		.039 0.99	.090-.130 2.29-3.30	Brass, Tin Plated	.012 0.31	.590 14.99	—	—	—	63751-1
	E	.020 0.51	.090-.130 2.29-3.30	Brass	.012 0.31	.585 14.86	X	—	X	60214-1
		.020 0.51	.090-.130 2.29-3.30	Brass, Tin Plated	.012 0.31	.585 14.86	X	—	X	60214-2
	F	.020 0.51	.060-.110 1.52-2.79	Brass, Tin Plated	.014 0.36	.615 15.62	X	—	X	62139-1[5]
		.020 0.51	.090-.130 2.29-3.30	Brass, Tin Plated	.014 0.36	.615 15.62	X	—	X	62026-1[5]
		.020 0.51	.090-.130 2.29-3.30	Brass	.014 0.36	.615 15.62	X	—	X	62026-2[5]
		.032 0.81	.090-.130 2.29-3.30	Brass	.014 0.36	.615 15.62	X	—	X	63646-1[5]
		.032 0.81	.090-.130 2.29-3.30	Brass, Tin Plated	.014 0.36	.615 15.62	X	—	X	63646-2[5]

[1] No Insulation support.
[2] UL listed and CSA certified for 22- 20 AWG.
[3] Also capable of accepting (2) 20 AWG wires.
[4] Stress relieved.
[5] Tab stock thickness .020 [0.51].

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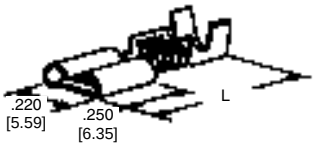
187 Series Receptacles (Continued)

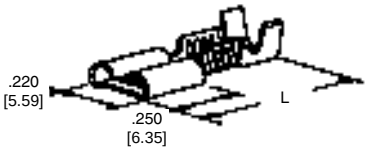
Straight Receptacles (Continued)

A — Premier Line

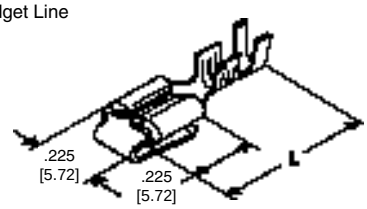


B — Budget Line

D — Commercial Line



E — Moldable Line



F — Commercial Line
Receptacle & Tab Combination

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	CSA	Terminal Part Number
18-16 or (2) 18	A	.020 0.51	.105-.210 2.67-5.33 (2) .105 2.67 Max.	Brass, Tin Plated	.012 0.31	.590 14.99	X	—	X	60487-2
			.105-.210 2.67-5.33 (2) .105 2.67 Max.	Brass	.012 0.31	.590 14.99	X	—	X	60487-1
		.032 0.81	.105-.210 2.67-5.33 (2) .105 2.67 Max.	Brass, Tin Plated	.012 0.31	.590 14.99	X	—	X	61945-1
			.105-.210 2.67-5.33 (2) .105 2.67 Max.	Steel, Nickel Plated	.012 0.31	.590 14.99	—	X	X	61945-2
	B	.032 0.81	.090-.130 2.29-3.30	Brass	.012 0.31	.585 14.86	X	—	X	63769-1
	E	.020 0.51	.090-.130 2.29-3.30	Brass	.012 0.31	.615 15.62	X	—	X	63470-1
18-14 or (2) 16	D	.020 0.51	.180-.230 4.57-5.84 or (2) .110 2.79 Max.	Brass	.014 0.36	.640 16.26	X	—	X	60742-1
				Brass, Tin Plated	.014 0.36	.640 16.26	X	—	X	60742-2
				Brass, Tin Plated	.014 0.36	.640 16.26	X	—	X	63749-2[4]
		.025 0.64	.180-.230 4.57-5.84 or (2) .110 2.79 Max.	Brass	.014 0.36	.640 16.26	—	—	—	63832-1
				Brass, Tin Plated	.014 0.36	.640 16.26	—	—	—	63832-2
		.032 0.81	.180-.230 4.57-5.84 or (2) .110 2.79 Max.	Brass	.014 0.36	.640 16.26	X	—	X	63596-1
				Brass, Pre-Tin	.014 0.36	.640 16.26	X	—	X	63596-2
18-14	A	.020 0.51	.110-.160 2.79-4.06	Brass, Tin Plated	.012 0.31	.590 14.99	X	—	X	1217149-1
	D		.150-.190 3.81-4.83	Brass	.014 0.36	.640 16.26	X	—	X	62016-1
			.150-.190 3.81-4.83	Brass, Tin Plated	.014 0.36	.640 16.26	X	—	X	62016-2
		.032 0.81	.150-.190 3.81-4.83	Brass, Pre-Tin	.014 0.36	.640 16.26	X	—	X	63697-1
	F	.020 0.51	.110-.160 2.79-4.06	Brass, Tin Plated	.014 0.36	.615 15.62	—	—	—	1217151-1[5]

[1] No Insulation support.
[2] UL listed and CSA certified for 22- 20 AWG.
[3] Also capable of accepting (2) 20 AWG wires.
[4] Stress relieved.
[5] Tab stock thickness .020 [0.51].

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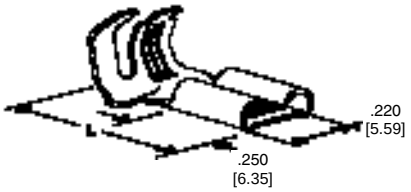
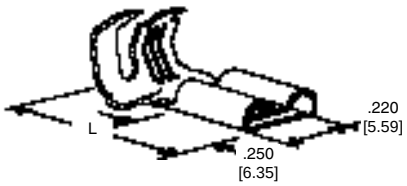
187 Series Tab-Lok Flags

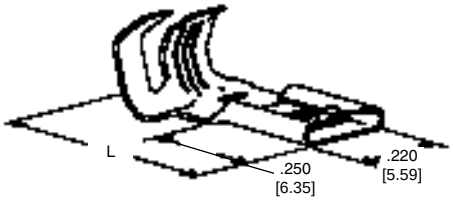
Flag Receptacles, Insulation Support



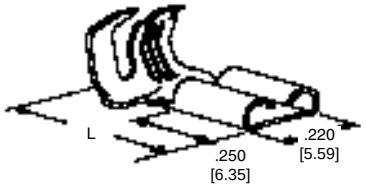
A — Premier Line



B — Budget Line



C — Economy Line



D — Moldable Line

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part Number
20-16	A	.020 0.51	.110-.170 2.79-4.32	Brass	.012 0.31	.530 13.46	X	—	X	42486-1
		.020 0.51	.110-.170 2.79-4.32	Brass, Tin Plated	.012 0.31	.530 13.46	X	—	X	42486-2
		.020 0.51	.110-.170 2.79-4.32	Steel, Nickel Plated	.012 0.31	.530 13.46	—	X	X	42486-3
		.020 0.51	.110-.170 2.79-4.32	Brass, Silver Plated	.012 0.31	.530 13.46	X	—	X	42486-4
		.032 0.81	.110-.170 2.79-4.32	Brass, Tin Plated	.012 0.31	.530 13.46	X	—	X	62591-1
		.032 0.81	.110-.170 2.79-4.32	Steel, Nickel Plated	.012 0.31	.530 13.46	—	X	X	63696-1
	B	.020 0.51	.110-.170 2.79-4.32	Brass	.012 0.31	.530 13.46	X	—	X	42618-1
		.020 0.51	.110-.170 2.79-4.32	Brass, Tin Plated	.012 0.31	.530 13.46	X	—	X	42618-2
		.020 0.51	.170-.225 4.32-5.72	Brass	.012 0.31	.575 14.61	X	—	X	62817-1
		.032 0.81	.110-.170 2.79-4.32	Brass	.012 0.31	.530 13.46	X	—	X	63748-1
	C	.020 0.51	.110-.170 2.79-4.32	Brass	.012 0.31	.530 13.46	X	—	X	42800-1
		.020 0.51	.110-.170 2.79-4.32	Brass, Tin Plated	.012 0.31	.530 13.46	X	—	X	42800-2
		.032 0.81	.110-.170 2.79-4.32	Brass	.012 0.31	.530 13.46	X	—	X	60529-1
		.032 0.81	.110-.170 2.79-4.32	Brass, Tin Plated	.012 0.31	.530 13.46	X	—	X	60529-2
	D	.020 0.51	.110-.170 2.79-4.32	Brass	.012 0.31	.530 13.46	X	—	X	61029-1
		.020 0.51	.110-.170 2.79-4.32	Brass, Tin Plated	.012 0.31	.530 13.46	X	—	X	61029-2
18-14 (2)18	B	.032	.110-.190 2.79-4.83 (2) .105 2.67 Max.	Brass, Tin Plated	.014 0.36	.530 14.36	—	X	X	1217027-1

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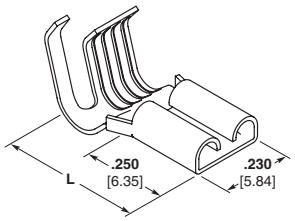
Japan: 81-44-844-8013
UK: 44-208-420-8341

187 Series C-Crimp Flag Receptacles

C-Crimp Line

A — 187 Series C-Crimp Flag Receptacles

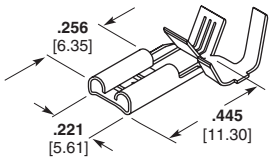


Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	SA	Terminal Part Number
20-16	A	.020 0.51	.090-.130 2.29-3.30	Brass	.014 0.36	.522 13.26	X	—	X	1217009-1
		.020 0.51	.090-.130 2.29-3.30	Brass, Tin Plated	.014 0.36	.522 13.26	X	—	X	1217009-2
		.032 0.81	.090-.130 2.29-3.30	Brass	.014 0.36	.522 13.26	X	—	X	1217010-1
		.032 0.81	.090-.130 2.29-3.30	Brass, Tin Plated	.014 0.36	.522 13.26	X	—	X	1217010-2
18-14	A	.032 0.81	.100-.155 2.54-3.94	Brass	.016 0.41	.535 13.59	X[1]	—	X[1]	1217244-1
		.032 0.81	.100-.155 2.54-3.94	Brass, Tin Plated	.016 0.41	.535 13.59	X	—	X	1217244-2
		.032 0.81	.100-.155 2.54-3.94	Phos. Bronze	.016 0.41	.535 13.59	X[1]	—	X[1]	1217527-1
		.032 0.81	.100-.155 2.54-3.94	Phos. Bronze, Tin Plated	.016 0.41	.535 13.59	X	—	X	1217527-2

[1] 16 & 18 AWG only.

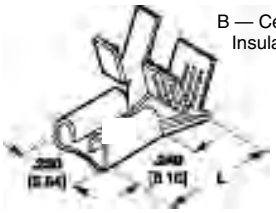
187 Series F-Crimp Flags

F-Crimp Line



A — End of Wire with Insulation Support

B — Center Strip with Insulation Support



C — Center Strip with No Insulation Support

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	SA	Terminal Part Number
22-18	A	.020 0.51	.060-.110 1.52-2.79	Brass	0.012 0.31	0.445 11.30	X	—	X	1742086-1
		.020 0.51	.060-.110 1.52-2.79	Brass, Tin Plated	0.012 0.31	0.445 11.30	X	—	X	1742086-2
		.032 0.81	.060-.110 1.52-2.79	Brass	0.012 0.31	0.445 11.30	X	—	X	1742087-1
		.032 0.81	.060-.110 1.52-2.79	Brass, Tin Plated	0.012 0.31	0.445 11.30	X	—	X	1742087-2
20-16	B	.020 0.51	.090-.130 2.29-3.30	Brass	.012 0.31	.596 15.14	—	—	—	626412-1
18-14	B	.020 0.51	.060-.150 1.52-3.81	Brass	.016 0.41	.430 10.92	X	—	X	63512-1
		.032 0.81	.060-.150 1.52-3.81	Brass	.016 0.41	.430 10.92	X	—	X	63316-1
		.032 0.81	.060-.150 1.52-3.81	Brass, Tin Plated	.016 0.41	.430 10.92	X	—	X	63316-2
		.032 0.81	.060-.150 1.52-3.81	Steel, Nickel Plated	.016 0.41	.430 10.92	—	X	X	63316-3
	C	.032 0.81	—	Brass	.016 0.41	.430 10.92	X	—	X	63317-1
18-14 or (2) 18	A	.020 0.51	.110-.150 or 2-.110 2.79-3.81 or 2-2.79 max	Brass	0.012 0.31	0.445 11.30	X[1]	—	X[1]	1742088-1
		.020 0.51	.110-.150 or 2-.110 2.79-3.81 or 2-2.79 max	Brass, Tin Plated	0.012 0.31	0.445 11.30	X[1]	—	X[1]	1742088-2
		.032 0.81	.110-.150 or 2-.110 2.79-3.81 or 2-2.79 max	Brass	0.012 0.31	0.445 11.30	X[1]	—	X[1]	1742089-1
		.032 0.81	.110-.150 or 2-.110 2.79-3.81 or 2-2.79 max	Brass, Tin Plated	0.012 0.31	0.445 11.30	X[1]	—	X[1]	1742089-2
18 or (2) 18	A	.020 0.51	.110-.150 or 2-.110 2.79-3.81 or 2-2.79 max	Steel, Nickel Plated	0.012 0.31	0.445 11.30	—	X[1]	—	1742312-1
		.032 0.81	.110-.150 or 2-.110 2.79-3.81 or 2-2.79 max	Steel, Nickel Plated	0.012 0.31	0.445 11.30	—	X[1]	—	1742049-1

[1] UL/CSA Approved for 18 & 16 AWG only

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125 Series Receptacles

Insulation Support

A- Receptacle with Insulation Support

Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part Number
22-18	A	.020 0.51	.090-.110 2.29-2.79	Brass	.010 0.25	.635 16.13	—	—	—	63705-1

110 Series Receptacles

Straight Receptacles

A — FASTON Receptacles with Insulation Support

B — FASTON Receptacles with No Insulation Support

C — Commercial Line Receptacle and Tab Combination

Wire Range AWG	Style	Fits Tab Type[7]	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part Number
30-28	A	1	.020 0.51	.020-.040 0.51-1.02	Brass, Pre-Tin	.010 0.25	.560 14.22	—	—	—	62585-1
26-22	B	—	.020 0.51	—	Brass, Tin Plated	.010 0.25	.327 8.31	—	—	—	63837-1
		—	.016 0.41	—	Brass	.010 0.25	.327 8.31	—	—	—	61818-1
24-22	A	1	.016 0.41	.040-.060 1.02-1.52	Brass, Pre-Tin	.010 0.25	.635 16.13	—	—	—	42415-1
		1	.020 0.51	.040-.060 1.02-1.52	Brass, Pre-Tin	.010 0.25	.635 16.13	X[1]	—	X	42067-1
		1	.020 0.51	.040-.060 1.02-1.52	Brass, Pre-Tin	.010 0.25	.510 12.95	X	—	X	60089-2
		1	.032 0.81	.040-.060 1.02-1.52	Brass, Pre-Tin	.010 0.25	.635 16.13	X[1]	—	X	63634-1
22-20	A	2	.020 0.51	.060-.100 1.52-2.54	Brass, Pre-Tin	.010 0.25	.635 16.13	X	—	X	42236-1
22-18	A	1	.012 0.31	.060-.100 1.52-2.54	Brass, Pre-Tin	.010 0.25	.635 16.13	—	—	—	60415-1
		1	.016 0.41	.060-.100 1.52-2.54	Brass, Pre-Tin	.010 0.25	.635 16.13	—	—	—	60118-1
		2	.016 0.41	.090-.130 1.52-2.54	Brass, Pre-Tin	.010 0.25	.635 16.13	—	—	—	62523-1
		1	.020 0.51	.060-.100 1.52-2.54	Brass	.010 0.25	.635 16.13	X	—	X	42068
		1	.020 0.51	.060-.100 1.52-2.54	Brass, Pre-Tin	.010 0.25	.635 16.13	X	—	X	42068-1
		1	.020 0.51	.090-.130 1.52-2.54	Brass, Pre-Tin	.010 0.25	.635 16.13	X	—	X	62094-1
		1	.020 0.51	.090-.130 1.52-2.54	Brass	.010 0.25	.635 16.13	X	—	X	62094-2
		2	.020 0.51	.120-.140 3.05-3.56	Brass, Pre-Tin	.010 0.25	.635 16.13	—	—	X	60729-1
		2	.025 0.51	.120-.140 3.05-3.56	Brass, Pre-Tin	.010 0.25	.635 16.13	—	—	—	63568-1
		1	.025 0.51	.120-.140 3.05-3.56	Brass, Pre-Tin	.010 0.25	.635 16.13	—	—	—	61158-1
		1	.032 0.81	.060-.100 1.52-2.54	Brass, Pre-Tin	.010 0.25	.635 16.13	X	—	X	60197-1
		3	.032 0.81	.060-.100 1.52-2.54	Brass, Pre-Tin	.010 0.25	.635 16.13	—	—	X	60577-1

[1] UL listed 22 AWG wire only.
[2] No Dimple.
[3] Dimple at special location.
[4] Side feed.
[5] Tab Thickness .020 [0.51].
[6] Tab Thickness .032 [0.81].
[7] Stress relieved.
[8] See page 29 for Mating Tab Designs.

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110 Series Receptacles (Continued)

Straight Receptacles (Continued)

A — FASTON Receptacles with Insulation Support

B — FASTON Receptacles with No Insulation Support

C — Commercial Line Receptacle and Tab Combination

Wire Range AWG	Style	Fits Tab Type[8]	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part Number
22-18	A	1	.032 0.81	.120-.140 3.05-3.56	Brass, Pre-Tin	.010 0.25	.635 16.13	X	X	63954-1
	C	1	.018 0.46	.080-.120 2.03-3.05	Brass	.010 0.25	.630 16.00	—	—	63242-1[5]
		1	.020 0.51	.060-.100 1.52-2.54	Brass	.010 0.25	.630 16.00	X	X	62003-1[5]
		1	.020 0.51	.060-.100 1.52-2.54	Brass, Tin Plated	.010 0.25	.630 16.00	X	X	62003-2[5]
		1	.032 0.81	.080-.120 2.03-3.05	Brass, Tin Plated	.010 0.25	.630 16.00	X	X	63961-1[5]
		1	.032 0.81	.080-.120 2.03-3.05	Brass, Tin Plated	.010 0.25	.630 16.00	—	—	1217145-1[6]
20-18 (2) 20	B	1	.016 0.41	—	Brass, Pre-Tin	.010 0.25	.475 12.07	—	—	42398-1
		2	.016 0.41	—	Brass, Pre-Tin	.010 0.25	.475 12.07	X	X	60967-1
		1	.020 0.51	—	Brass, Pre-Tin	.010 0.25	.475 12.07	X	X	42399-1
		1	.020 0.51	—	Brass	.010 0.25	.475 12.07	X	X	42399-2
		1	.025 0.64	—	Brass, Pre-Tin	.010 0.25	.475 12.07	—	—	62345-1
		1	.032 0.81	—	Brass, Pre-Tin	.010 0.25	.475 12.07	X	X	60601-1
20-18	B	—	.020 0.51	—	Brass, Pre-Tin	.010 0.25	.380 9.65	X	X	62850-1[2]
		—	.020 0.51	—	Brass, Tin Plated	.010 0.25	.380 9.65	X	X	62850-2[2]
20-16	A	1	.010 0.25	.060-.100 1.52-2.54	Brass, Pre-Tin	.010 0.25	.625 15.88	—	—	62968-1
		1	.020 0.51	.060-.100 1.52-2.54	Brass, Pre-Tin	.010 0.25	.635 16.13	X	X	61408-1
		1	.020 0.51	.060-.100 1.52-2.54	Steel, Nickel Plated	.010 0.25	.635 16.13	—	X	1217102-1
		1	.020 0.51	.120-.140 3.05-3.56	Brass, Pre-Tin	.010 0.25	.635 16.13	X	X	61400-1
		1	.020 0.51	.150-.170 3.81-4.32	Brass, Tin Plated	.010 0.25	.635 16.13	X	X	62191-1
		1	.032 0.81	.120-.140 3.05-3.56	Brass, Pre-Tin	.010 0.25	.635 16.13	X	X	62050-1
		1	.032 0.81	.120-.140 3.05-3.56	Steel, Nickel Plated	.010 0.25	.635 16.13	—	X	62050-2
		2	.032 0.81	.120-.140 3.05-3.56	Brass, Pre-Tin	.010 0.25	.635 16.13	X	X	63703-1
	B	1	.016 0.41	—	Brass, Pre-Tin	.010 0.25	.537 13.64	—	—	61457-1
		2	.020 0.51	—	Brass, Pre-Tin	.010 0.25	.537 13.64	X	X	63471-1
		1	.032 0.81	—	Brass, Pre-Tin	.010 0.25	.415 10.54	X	X	63560-1
18-14	A	3	.032 0.81	.110-.190 2.79-4.83	Brass, Tin Plated	.010 0.25	.625 15.88	—	—	63092-1[7]
		—	.032 0.81	.110-.190 2.79-4.83	Brass, Tin Plated	.012 0.30	.625 15.88	—	—	63093-1[2, 7]
	B	—	.020 0.51	—	Brass, Tin Plated	.010 0.25	.475 12.07	X	X	62474-1[3,4]
		1	.020 0.51	—	Brass, Pre-Tin	.010 0.25	.475 12.07	X	X	62852-1[4]

[1] UL listed 22 AWG wire only.
[2] No Dimple.
[3] Dimple at special location.
[4] Side feed.
[5] Tab Thickness .020 [0.51].
[6] Tab Thickness .032 [0.81].
[7] Stress relieved.
[8] See page 29 for Mating Tab Designs.

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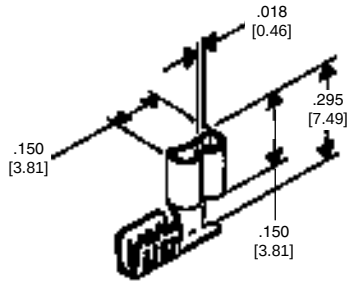
110 Series F-Crimp Flags

Flag Receptacles

A — FASTON Flag Receptacle with Insulation Support

B — FASTON Flag Receptacle with Insulation Support

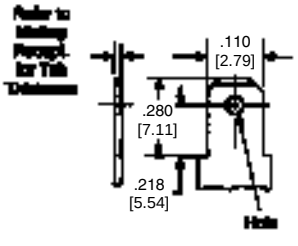


C — FASTON Flag Receptacle with No Insulation Support

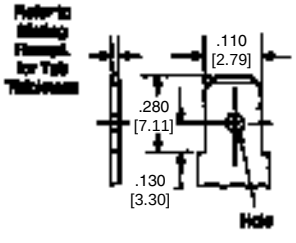
Wire Range AWG	Style	Fits Tab Type[2]	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	SEMKO	Terminal Part Number
26-22	B	*	.020 0.51	.040-.080 1.02-2.03	Brass, Pre-Tin	.010 0.25	.430 10.92	X[3]	—	X[3]	1742219-1
22-18	A	*	.016 0.41	.065-.100 1.65-2.54	Brass, Pre-Tin	.010 0.25	.460 11.68	—	—	—	61459-1
		*	.020 0.51	.065-.100 1.65-2.54	Brass, Pre-Tin	.010 0.25	.460 11.68	X	—	X	61372-1
		*	.020 0.51	.065-.100 1.65-2.54	Brass, Tin Plated	.012 0.30	.460 11.68	X	—	X	60605-1
		*	.025 0.64	.065-.100 1.65-2.54	Brass, Pre-Tin	.010 0.25	.460 11.68	—	—	—	61530-1
		*	.025 0.64	.065-.100 1.65-2.54	Brass, Tin Plated	.012 0.30	.460 11.68	—	—	—	63592-1
		*	.032 0.81	.065-.100 1.65-2.54	Brass, Pre-Tin	.010 0.25	.460 11.68	X	—	X	61971-1
	B	*	.020 0.51	.060-.100 1.52-2.54	Brass, Pre-Tin	.010 0.25	.430 10.92	X	—	X	61481-1
		*	.020 0.51	.060-.100 1.52-2.54	Brass, Tin Plated	.012 0.30	.430 10.92	X	—	X	61070-1
		*	.020 0.51	.060-.100 1.52-2.54	Brass	.012 0.30	.430 10.92	X	—	X	61070-2
		*	.025 0.64	.060-.100 1.52-2.54	Brass, Pre-Tin	.010 0.25	.430 10.92	—	—	—	1217138-1
		*	.032 0.81	.060-.100 1.52-2.54	Brass, Pre-Tin	.010 0.25	.430 10.92	X	—	X	62336-1
		*	.032 0.81	.060-.100 1.52-2.54	Steel, Nickel Plated	.010 0.25	.430 10.92	—	—	—	62336-2
22-16	C	—	.015 0.38	—	Brass, Pre-Tin	.010 0.25	.295 7.49	—	—	—	63990-1
		—	.020 0.51	—	Brass	.012 0.30	.295 7.49	X[1]	—	X	60991-1
		—	.020 0.51	—	Brass, Pre-Tin	.010 0.25	.295 7.49	X[1]	—	X	61549-1
		1	.020 0.51	—	Brass, Pre-Tin	.010 0.25	.295 7.49	X[1]	—	X	62321-1

* No Tab Type
[1] UL listed and CSA certified for 22-18 AWG.
[2] See below for Mating Tab Designs.
[3] UL listed and CSA certified for 22 AWG wire only.

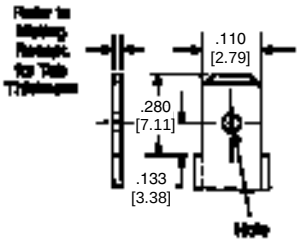
Mating 110 Series Tab Designs



Mating 110 Series Tab Dimension Type 1



Mating 110 Series Tab Dimensions Type 2



Mating 110 Series Tab Dimensions Type 3

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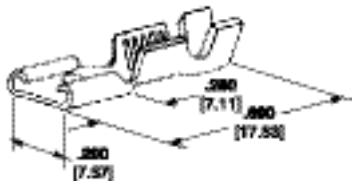
Japan: 81-44-844-8013
UK: 44-208-420-8341

250 Series FASTON Receptacles

Stock Thickness — .016 [0.41]

AMPLIVAR Receptacles



Magnet Wire Range CMA	Magnet Wire Range mm² Dia.	Insulation Diameter	Mating Tab Thk.	Material	Material Thickness	Part Number	Applicator No.
24-19	0.51-0.98	.050-.080 1.30-2.00	.020 0.51	Brass Tin Plated Brass	.016 0.41	63623-1[1] 63623-2[1]	567451-2[2]
23-19 or (2) 24 or (2) 26	0.60-0.98 or (2) 0.57 or (2) 0.45	.050-.100 1.30-2.55	.025 0.64	Brass	.016 0.41	62069-1[3]	567343-2[2]
20-16 or (2) 23 or (2) 20	0.85-1.37 or (2) 0.63 or (2) 0.88	.100-.140 2.55-3.55 or (2) .060 1.52 Max.	.032 [0.81]	Brass Tin Plated Brass	.016 0.41	60384-1 60384-2	466010-1[2]
20-16	0.85-1.37	.100-.140 2.55-3.55	.020 0.51	Brass	.016 0.41	62080-1	466010-1[2]
18-14 or (2) 17	1.02-1.71	.120-.170 3.05-4.30 or (2) .060 1.52 Max.	.032 [0.81]	Tin Plated Brass	.016 0.41	60385-2	466816-1[2]
18-14 or (2) 19	1.02-1.71	.120-.170 3.05-4.30	.020 0.51	Brass	.016 0.41	63622-1[1]	466816-1[2]
18-14 or (2) 19	1.02-1.71	.120-.170 3.05-4.30	.020 0.51	Brass	.016 0.41	1217835-1	466816-1[2]

[1] Low insertion force
[2] Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.
[3] Mates to .025 [0.64] thick tab.

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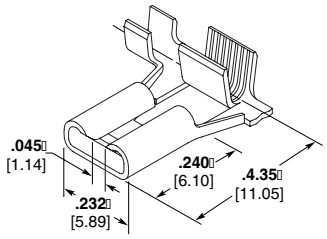
AMPLIVAR Receptacles (Continued)

187 Series FASTON Flag Receptacles

Stock Thickness — .016 [0.41]

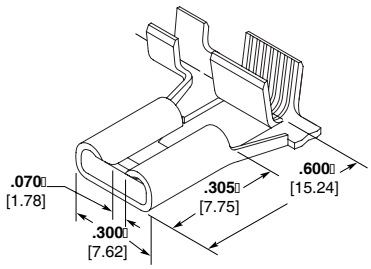


Magnet Wire Range		Insulation Diameter	Mating Tab Thk.	Material	Material Thickness	Part Number	Applicator No.
CMA	mm² Dia.						
500-1200	0.56-0.79	.020-.040 0.51-1.02	.020 0.51	Tin Plated Brass	.016 0.41	63942-1	566411-1[1]
24-20 AWG	0.51-0.81	.020-.040 0.51-1.02	.032 0.81	Tin Plated Brass	.016 0.41	1217624-1	566411-1[1]
1200-2350	0.99-1.22	.020-.040 0.51-1.02	.020 0.51	Tin Plated Brass	.016 0.41	63941-1	566410-1[1]
2000-4000	1.14-1.61	.020-.040 0.51-1.02	.032 0.81	Tin Plated Brass	0.016 0.41	1217955-1	566429-1
2000-4050	1.14-1.63	.020-.040 0.51-1.02	.020 0.51	Tin Plated Brass	.016 0.41	63940-1	680353-3[2]
2000-4050	1.14-1.63	.020-.040 0.51-1.02	.032 0.81	Tin Plated Brass	.016 0.41	1217417-1	680353-3[2]
3000-6000	1.39-1.97	.020-.040 0.51-1.02	.020 0.51	Tin Plated Brass	.016 0.41	1217899-1	566426-1

[1] Standard Applicator for “G” Splice Terminator No. 356462-2.
[2] Quick-Change Applicator for “G” Splice Terminator No. 356462-1.

250 Series FASTON Flag Receptacles

Stock Thickness — .018 [0.45]



Magnet Wire Range		Insulation Diameter	Mating Tab Thk.	Material	Material Thickness	Part Number	Applicator No.
CMA	mm² Dia.						
16-12	1.29-2.13	.120-.170 3.05-4.32	.032 0.81	Tin Plated Phos Bronze	.018 0.45	63944-1	680421-3[1]

[1] Quick-Change Applicator for ”G” Splice Terminator No. 356462-1.

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UK: 44-208-420-8341

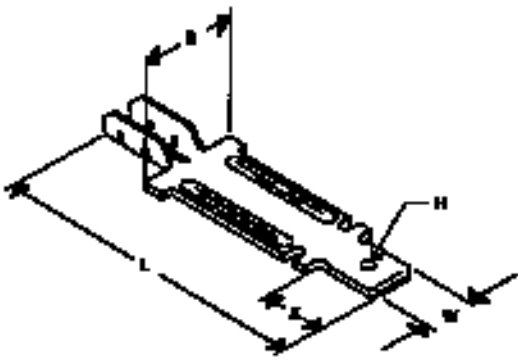
FASTON Tabs

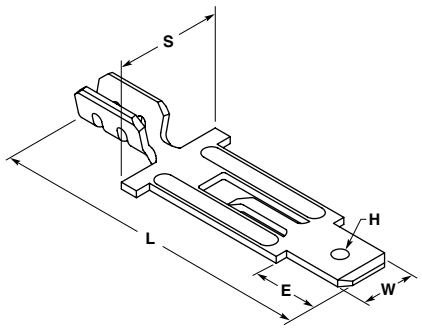
312 and 250 Series (High Temperature [343° C to 371° C])

Tyco Electronics offers a variety of FASTON tabs in an assortment of configurations. The product line includes various weld type tabs, stud mounted tabs and wire crimp tabs. Also included in the product offering are high temperature tabs and test tabs.

Tyco Electronics' high-temperature tab is designed to crimp to heating element wire. The tab end protrudes through a ceramic/high-temperature housing for mating with either a standard 250 or 312 FASTON receptacle.

Stock Thickness — .032 [0.81]

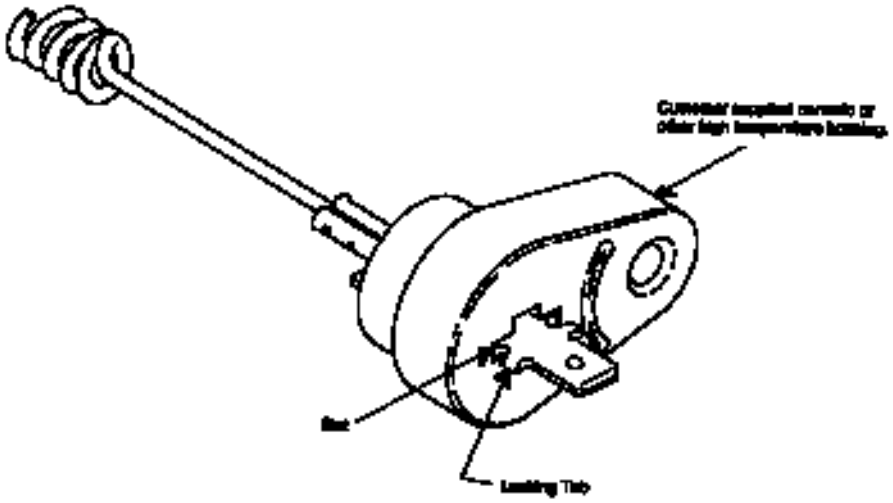


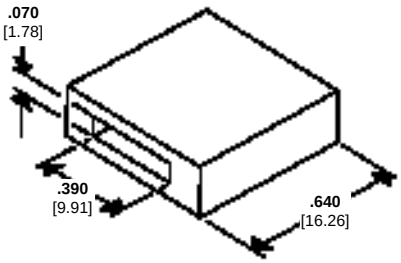


Style A

Style	Series	Solid Wire Range AWG	Tab Thickness	Dimensions L	W	E	S	H	Material and Finish	Terminal Part No.[1]
A	312	22-15	**.032** 0.81	**1.570** 39.88	**.312** 7.92	**.387** 9.83	**.500** 12.70	Hole	Nickel Plated Steel	63300-1
			.032 0.81	**1.570** 39.88	**.312** 7.92	**.387** 9.83	**.375** 9.53	Hole	Nickel Plated Steel	63390-1
	250	22-15	**.032** 0.81	**1.500** 38.10	**.250** 6.35	**.312** 7.92	**.500** 12.70	Dimple	Nickel Plated Steel	63301-1
		20-15	**.032** 0.81	**1.500** 38.10	**.250** 6.35	**.312** 7.92	**.500** 12.70	Hole	Nickel Plated Steel	63522-1
B	250	20-15	**.032** 0.81	**1.500** 38.10	**.250** 6.35	**.312** 7.92	**.500** 12.70	Dimple	Nickel Plated Steel	63104-1
		22-15	**.032** 0.81	**1.500** 38.10	**.250** 6.35	**.312** 7.92	**.370** 9.40	Dimple	Nickel Plated Steel	1217006-1

[1] Contact Technical Support for Tooling Application.





Recommended Housing

Catalog 82004
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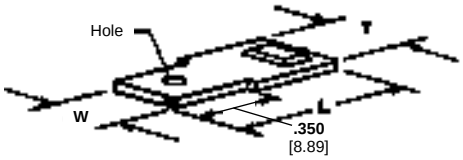
FASTON Tabs (Continued)

312 Series and 250 Series FASTON Tabs

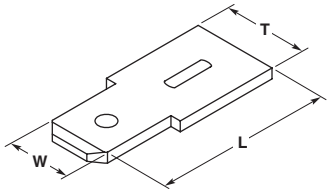
(Mates with all "312" and "250" Series FASTON Receptacles)

312 and 250 Series Weld Type Tabs

Stock Thickness — .032 [0.81]



A



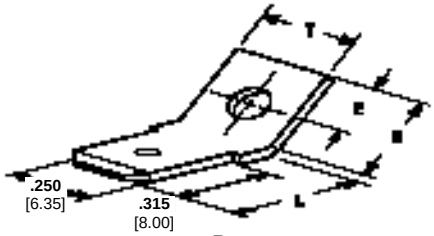
B

Style	Dimensions			Material and Finish	Terminal Part No.
	W	L	T		
A	**.312** 7.92	**.550** 13.97	**.375** 9.53	Nickel Plated Steel	63770-1
B	**.250** 6.35	**.825** 20.96	**.375** 9.53	Nickel Plated Steel	1217002-1

250 Series Stud Mount Type Tabs

Stock Thickness — .032 [0.81]
Dimple (Both Sides)

A



B

Style	Stud Diameter	Dimensions				Material and Finish	Terminal Part No.	UL	CSA
		B	L	E	T				
A	**.177** 4.50	—	**.715** 18.16	**.170** 4.32	**.295** 7.49	Brass	63038-2	X	—
			.715 18.16	**.170** 4.32	**.295** 7.49	Tin Plated Brass	63038-1	X	X
	—	—	**.635** 16.13	—	**.295** 7.49	Nickel Plated Steel	42559-1	X	X
	.171 4.34	—	**.940** 23.88	**.125** 3.18	**.280** 7.11	Brass	1217558-1	—	—
			.940 23.88	**.125** 3.18	**.280** 7.11	Tin Plated Brass	1217558-2	—	—
B	**.130** 3.30	**.300** 7.62	**.400** 10.16	**.170** 4.32	**.295** 7.49	Tin Plated Brass	42822-2	X	X
	.145 3.68	**.300** 7.62	**.400** 10.16	**.170** 4.32	**.295** 7.49	Tin Plated Brass	42822-4	X	X
	.171 4.34	**.330** 8.38	**.375** 9.53	**.170** 4.32	**.295** 7.49	Brass	60465-1	X	X
						Tin Plated Brass	60465-2	X	X
	.203 5.16	**.330** 8.38	**.375** 9.53	**.170** 4.32	**.295** 7.49	Tin Plated Brass	61365-1	X	X
	.197 5.00	**.330** 8.38	**.375** 9.53	**.170** 4.32	**.295** 7.49	Tin Plated Brass	61499-1	X	X

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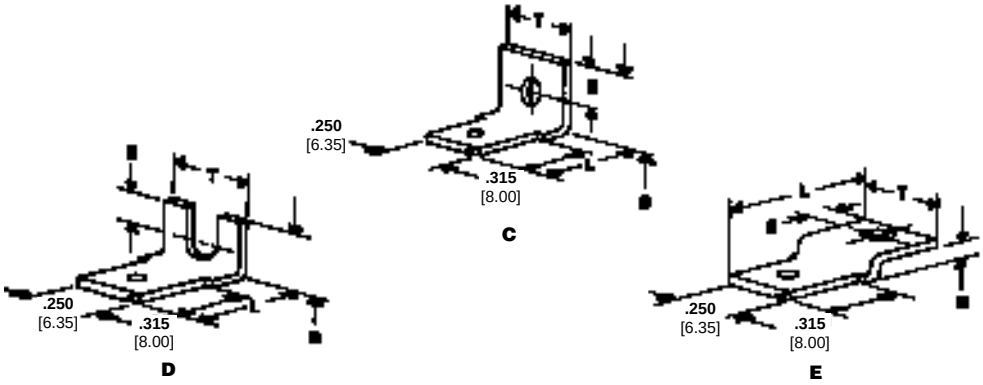
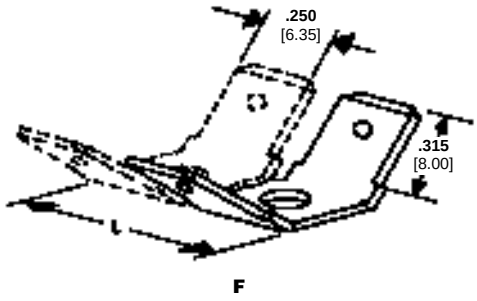
250 Series
Stud Mount Type Tabs
(Continued)

Stock Thickness — .032 [0.81]
Dimple (Both Sides)

FASTON Tabs (Continued)



Style	Stud Diameter	Dimensions B	L	E	T	Material and Finish	Terminal Part No.	UL	CSA
C	.097 2.46	.250 6.35	.440 11.18	.093 2.36	.295 7.49	Brass	41339	X	X
	.130 3.30	.330 8.38	.440 11.18	.170 4.32	.295 7.49	Tin Plated Brass	42095-1	X	X
		.270 6.86	.440 11.18	.110 2.79	.295 7.49	Tin Plated Brass	42117-2	X	X
	.171 4.34	.330 8.38	.440 11.18	.170 4.32	.295 7.49	Brass	42214-1	X	X
						Tin Plated Brass	42214-2	X	X
		.313 7.95	.656 16.67	.125 3.18	.250 6.35	Tin Plated Brass	62314-2	X	X
	.203 5.16	.472 11.99	.394 10.00	—	.295 7.49	Tin Brass	63971-1	—	—
D	.125 3.18	.235 5.97	.440 11.18	.125 3.18	.295 7.49	Brass	41398	X	X
	.171 4.34	.330 8.38	.440 11.18	.120 3.05	.205 5.20	Brass	62166-1	X	X
E	.130 3.30	.068 1.73	.615 15.62	.093 2.36	.295 7.49	Tin Plated Brass	42506-2	X	X



Style	Pairs	Stud Diameter	Dim. L	Material and Finish	Terminal Part No.	UL	CSA
F	2	.130 3.30	.690 17.53	Tin Plated Brass	41478	X	X
		.171 4.34	.690 17.53	Brass	41617	X	X
	4	.130 3.30	1.455 36.96	Tin Plated Brass	41484	X	X

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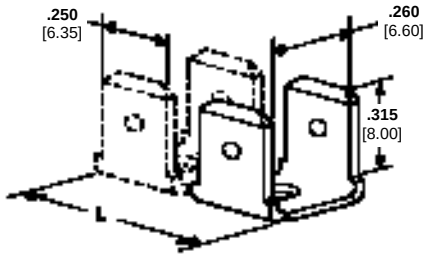
FASTON Tabs (Continued)

250 Series
Stud Mount Type Tabs
(Continued)

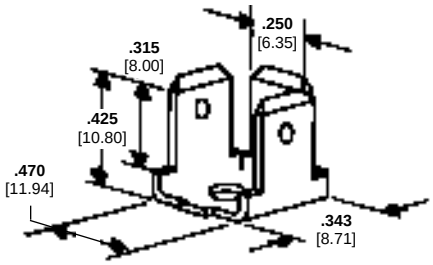
Stock Thickness — .032 [0.81]
Dimple (Both Sides)



G

Style	Pairs	Stud Diameter	Dim. L	Material and Finish	Terminal Part No.	UL	CSA
G	1	**.130** 3.30	**.315** 8.00	Brass	41290	X	X
	2	**.130** 3.30	**.690** 17.53	Brass	41291	X	X
	3	**.130** 3.30	**1.065** 27.05	Brass	41292	X	X
	4	**.130** 3.30	**1.440** 36.58	Brass	41370	X	X
	1	**.130** 3.30	**.315** 8.00	Tin Plated Brass	41480	X	X
	2	**.130** 3.30	**.690** 17.53	Tin Plated Brass	41481	X	X
	3	**.130** 3.30	**1.065** 27.05	Tin Plated Brass	41482	X	X
	—	**.130** 3.30	—	Tin Plated Brass	42115-4[1]	X	X
				Brass	42115-6[1]	X	X
	1	**.171** 4.34	**.315** 8.00	Brass	41619	X	X
				Tin Plated Brass	42802-1	X	X
		.097 2.46	**.315** 8.00	Tin Plated Brass	60080-2	X	X

[1] In continuous strip-form.

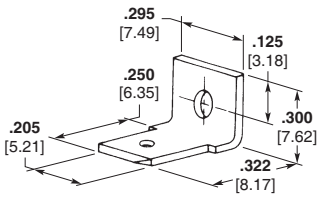


H

Style	Stud Diameter	Material and Finish	Terminal Part No.	UL	CSA
H	**.130** 3.30	Brass	62261-1	X	X

205 Series
Stud Mount Type Tabs

Tab Thickness — .032 [0.81]



Stud Diameter	Material and Finish	Terminal Part No.	UL	CSA
.145 3.68	Brass	62168-1	X	X
.130 3.30	Brass	61836-1	X	X

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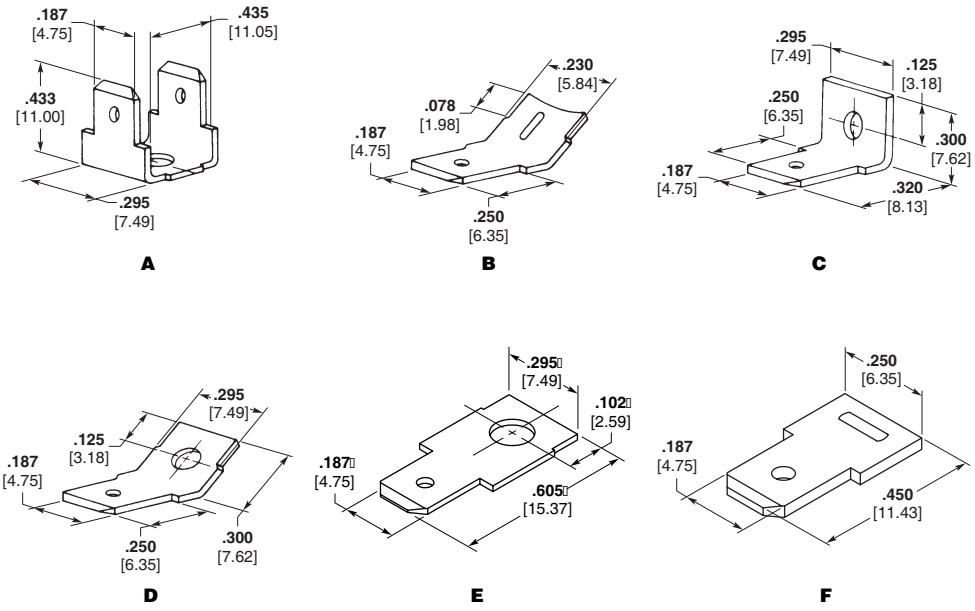
FASTON Tabs (Continued)

187 Series
Stud Mount Type Tabs —
Hole in Tab



Style	Stud Diameter	Stock Thickness	Material and Finish	Terminal Part No.	UL	CSA
A	**.130** 3.30	**.020** 0.51	Tin Plated Brass	61951-1	X	X
	.197 5.00	**.020** 0.51	Tin Plated Brass	61914-1	X	X
B	—	**.020** 0.51	Nickel Plated Steel	61960-1[1,2]	X	X
C	**.145** 3.68	**.020** 0.51	Tin Plated Brass	61407-3	X	X
D	**.130** 3.30	**.020** 0.51	Tin Plated Brass	61761-2[2]	X	X
	.145 3.68	**.020** 0.51	Brass	62576-1[2]	X	X
	.171 4.34	**.020** 0.51	Tin Plated Brass	61664-1[2]	X	X
E	**.130** 3.30	**.020** 0.51	Tin Plated Brass	63946-1	—	—
	.145 3.68	**.020** 0.51	Tin Plated Brass	1742041-1	—	—
F	—	**.032** 0.81	Nickel Plated Steel	63771-1[1]	—	—

[1] Weld tab.
[2] Bent 45°.

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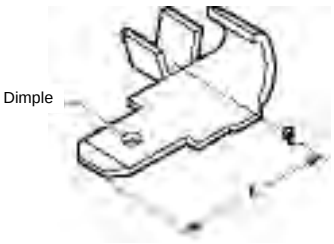
FASTON Tabs (Continued)

250 Series Wire Crimp Tabs



A — 250 Series Flag FASTON Tab

B — 250 Series Wire Crimp Tab

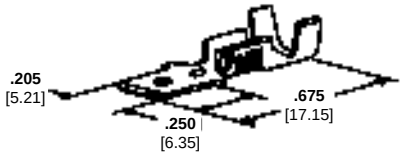
C — 250 Series Wire Crimp Tab

Wire Range AWG	Style	Tab Thickness	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part No.
22-18	B	**.032** 0.81	**.080-.120** 2.03-3.05	Brass	**.015** 0.38	**.815** 20.70	—	X	X	42475-3
		.032 0.81	**.080-.120** 2.03-3.05	Brass, Tin Plated	**.015** 0.38	**.815** 20.70	—	X	X	42475-4
18-14	A	**.032** 0.81	**.080-.120** 2.03-3.05	Brass, Tin Plated	**.032** 0.81	**.500** 12.70	X	—	X	42770-2
	B	**.032** 0.81	**.110-.150** 2.79-3.81	Brass	**.015** 0.38	**.810** 20.57	—	X	X	42474-3
		.032 0.81	**.110-.150** 2.79-3.81	Brass, Tin Plated	**.015** 0.38	**.810** 20.57	—	X	X	42474-4
	C	**.032** 0.81	**.120-.170** 3.05-4.32	Brass	**.032** 0.81	**.775** 19.69	X	—	X	41411
		.032 0.81	**.120-.170** 3.05-4.32	Brass, Tin Plated	**.032** 0.81	**.775** 19.69	X	—	X	41412
		.032 0.81	**.120-.170** 3.05-4.32	Brass	**.032** 0.81	**.775** 19.69	X	—	X	63761-1[1]
14-12	B	**.032** 0.81	**.110-.170** 2.79-4.32	Brass, Tin Plated	**.015** 0.38	**.810** 20.57	—	X	X	61281-3
		.032 0.81	**.110-.170** 2.79-4.32	Brass, Silver Plated	**.015** 0.38	**.810** 20.57	—	X	X	61362-2

[1] Hole.

205 Series Wire Crimp Tabs

Stock Thickness — .020 [0.51]



A — 205 Series Wire Crimp

Wire Range AWG	Style	Tab Thickness	Insulation Diameter	Material and Finish	UL	CSA	Terminal Part No.
18-14	A	**.020** 0.51	**.120-.150** 3.05-3.81	Brass, Tin Plated	X	—	X	62531-1
		.020 0.51	**.120-.150** 3.05-3.81	Brass, Tin Plated	X	—	X	63223-1[1]

[1] No hole.

Catalog 82004
Revised 7-06

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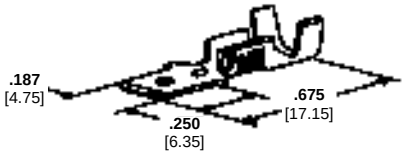
FASTON Tabs (Continued)

187 Series Wire Crimp Tabs



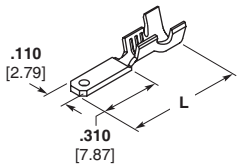
A — 187 Series Wire Crimp

Wire Range AWG	Style	Tab Thickness	Insulation Diameter	Material and Finish	Stock Thickness	UL	CSA	Terminal Part No.
22-18	A	**.020** 0.51	**.080-.120** 2.03-3.05	Brass, Tin Plated	**.020** 0.51	X	X	42490-3
		.020 0.51	**.080-.120** 2.03-3.05	Brass	**.020** 0.51	X	X	42490-4
18-14	A	**.020** 0.51	**.120-.150** 3.05-3.81	Brass	**.020** 0.51	X	X	60850-1
		.020 0.51	**.120-.150** 3.05-3.81	Brass, Tin Plated	**.020** 0.51	X	X	60850-2
		.032 0.81	**.120-.150** 3.05-3.81	Brass, Tin Plated	**.032** 0.81	X	X	61687-2[1]

[1] Premilled dual stock thickness, Tab .032 [0.81], body .016 [0.41].

110 Series Wire Crimp Tabs

A - 110 Series Wire Crimp



B — 110 Series Wire Crimp Tab with Insulation Support

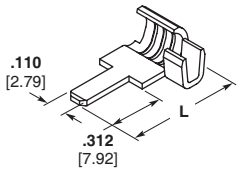
Wire Range AWG	Style	Tab Thickness	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part No.
26-22	A	**.020** 0.51	—	Brass, Tin Plated	**.020** 0.51	**.490** 12.45	X	X	62887-1
		.020 0.51	—	Brass, Copper over Tin Plated	**.020** 0.51	**.490** 12.45	X	X	62887-2
22-18	A	**.032** 0.81	—	Brass, Tin Plated	**.020** 0.51	**.490** 12.45	X	X	63932-1
		.020 0.51	—	Brass, Pre-Tin Plated	**.020** 0.51	**.485** 12.32	X	X	62122-1
		.020 0.51	—	Brass, Pre-Tin Plated	**.020** 0.51	**.570** 14.48	X	X	62384-1
	B	**.032** 0.81	**.070-.130** 1.78-3.30	Brass, Tin Plated	**.032** 0.81	**.625** 15.88	X	X	63138-1
20-16	A	**.020** 0.51	—	Brass, Pre-Tin Plated	**.020** 0.51	**.570** 14.48	—	—	1217118-1[1]

[1] .052 [1.32] Dia. Hole.

.060 Series Wire Crimp Tabs

Stock Thickness — .032 [0.81]

A - .060 Series Wire Crimp



B — .060 Series Wire Crimp Tab with Insulation Support

Wire Range AWG	Style	Tab Thickness	Insulation Diameter	Material and Finish	L (Overall Length)	UL	CSA	Terminal Part No.
23-19	A	**.032** 0.81	—	Brass, Tin Plated	**.740** 18.80	X	X	63497-1[1]
22-16	A	**.032** 0.81	—	Brass, Tin Plated	**.740** 18.80	X	X	63893-1
		.032 0.81	—	Brass, Tin Plated	**.740** 18.80	X	X	63753-1[1]
18-14	B	**.032** 0.81	**.080-.120** 2.03-3.05	Brass, Tin Plated	**.500** 12.70	—	—	1217591-1

[1] AMPLIVAR Connector Type Serrations for Magnet Wire.

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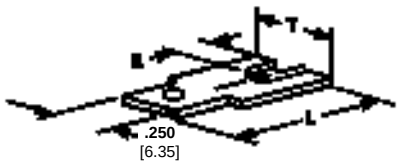
FASTON Tabs (Continued)

250 Series Test Tabs

(Mate with all "250" Series FASTON Receptacles)

The mechanical tab is mounted onto AMP gauge 100505 for testing of receptacle insertion/ extraction requirements. Double-ended test tabs are also available for electrical and temperature rise testing. Tyco Electronics has readily available a variety of UL 310 constructed tabs for mechanical testing of FASTON, Ultra-Fast FASTON and Positive Lock receptacles. These tabs are designed for electrical test setups as outlined in UL 310 (See instruction sheet 408–7432 for recommended procedure mechanical test).



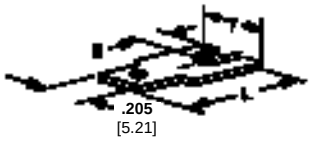
Mechanical
A

Electrical
B

Style	Stud Diameter	Stock Thickness	Dimensions L	Dimensions E	Dimensions T	Material and Finish	UL	CSA	Terminal Part No.
A	.125 3.18	.032 0.81	.625 15.88	.125 3.18	.295 7.49	Brass	X	X	60447-1[1,3]
		.020 0.51	.635 16.13	.125 3.18	.295 7.49	Brass	—	—	63633-1[2]
		.032 0.81	.625 15.88	.125 3.18	.295 7.49	Brass	—	—	63274-1[2]
B	.145 3.68	.032 0.81	1.010 25.65	—	—	Tin Plated Steel	—	—	62627-1[3]
						Brass	—	—	62627-2[3]
						Brass	—	—	62627-3[2]

[1] Mechanical test tab for use with AMP gauge number 100505.
[2] Test tab with hole for Positive Lock.
[3] Dimple.

205 Series Test Tabs



Mechanical
A

Electrical
B

Style	Hole Diameter	Stock Thickness	Dimensions B	Dimensions L	Dimensions E	Dimensions T	Material and Finish	UL	CSA	Terminal Part No.
A	.125 3.18	.020 0.51	—	.605 15.37	.090 2.29	.295 7.49	Brass	X	X	60613-1[1]
		.032 0.81	—	.605 15.37	.090 2.29	.295 7.49	Brass	X	X	60613-2[1]
B	.145 3.68	.020 0.51	—	1.276 32.41	—	—	Tin Plated Steel	—	—	60921-4
		.032 0.81	—	1.276 32.41	—	—	Brass	—	—	60922-1
		.020 0.51	—	1.276 32.41	—	—	Brass	—	—	60921-1
		.032 0.81	—	1.276 32.41	—	—	Tin Plated Steel	—	—	60922-5

[1] Mechanical test tab for use with AMP gauge number 100505.

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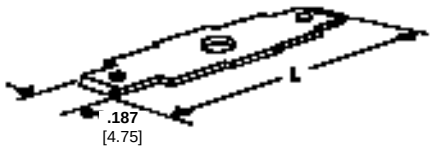
FASTON Tabs (Continued)

187 Series Test Tabs

(Mates with all "187" Series Receptacles)

Mechanical
A



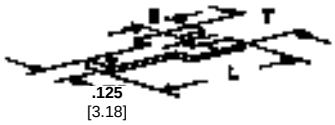
Electrical
B

Style	Pairs	Stud Diameter	Stock Thickness	Dimensions L	Dimensions E	Dimensions T	Material and Finish	UL	CSA	Terminal Part No.
A	—	.125 3.18	.020 0.51	.605 15.37	.090 2.29	.295 7.49	Brass	X	X	60443-1[1]
							Tin Plated Brass	—	—	60443-5[1]
							Brass	—	—	63248-1[1]
			.032 0.81	.605 15.37	.090 2.29	.295 7.49	Brass	X	X	60443-2[1]
							Tin Plated Brass	X	X	60443-6
							Brass	—	—	63248-2
B	1	.145 3.68	.020 0.51	1.276 32.41	—	—	Tin Plated Steel	X	X	60920-4
							Tin Plated Brass	—	—	60920-5
			.032 0.81	1.276 32.41	—	—	Brass	X	X	62298-1
							Tin Plated Steel	X	X	62298-2

[1] Test Tab with Hole.

125 Series Test Tabs

(Mates with all "125" Series Receptacles)

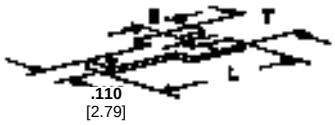


Mechanical
A

Style	Pairs	Stud Diameter	Stock Thickness	Dimensions L	Dimensions E	Dimensions T	Material and Finish	UL	CSA	Terminal Part No.
A	—	.125 3.18	.020 0.51	.570 14.48	.090 2.29	.295 7.49	Brass	—	—	63747-1

110 Series Test Tabs

(Mates with all "110" Series Receptacles)



Mechanical
A

Electrical
B

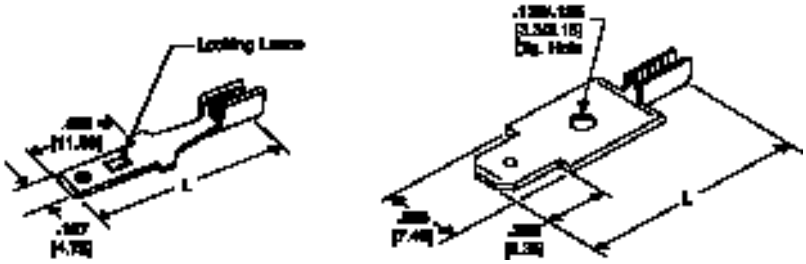
Style	Stud Diameter	Stock Thickness	Dimensions L	Dimensions E	Dimensions T	Material and Finish	UL	CSA	Terminal Part No.
A	.125 3.18	.020 0.51	.570 14.48	.090 2.29	.295 7.49	Brass	X	X	62061-1
		.032 0.81	.570 14.48	.090 2.29	.295 7.49	Brass	—	—	62061-2
		.016 0.41	.570 14.48	.090 2.29	.295 7.49	Brass	—	—	62061-3
B	.145 3.68	.020 0.51	1.151 29.24	—	—	Tin Plated Steel	X	X	62628-1
		.020 0.51	1.151 29.24	—	—	Brass	X	X	62628-2

AMPLIVAR Terminals

187 Series FASTON Tabs

Board Thickness —
A = .062–.072 [1.57–1.83]

Stock Thickness —
A = .020 [0.51]
B = .032 [0.81]



A B

Style	Wire Range AWG	Wire Range mm²	Material	Dim. L			Part Number
B	27-23	0.1-0.2	Tin Plated Brass	**.935** 23.75	—	—	63484-1[2]
A	22-16	0.3-1.4	Tin Plated Brass	**1.015** 25.78	—	—	62447-1
	15-12	1.6-3.0	Tin Plated Brass	**1.015** 25.78	—	—	62445-1

[2] Varnish resist coating.

250 Series FASTON Tabs

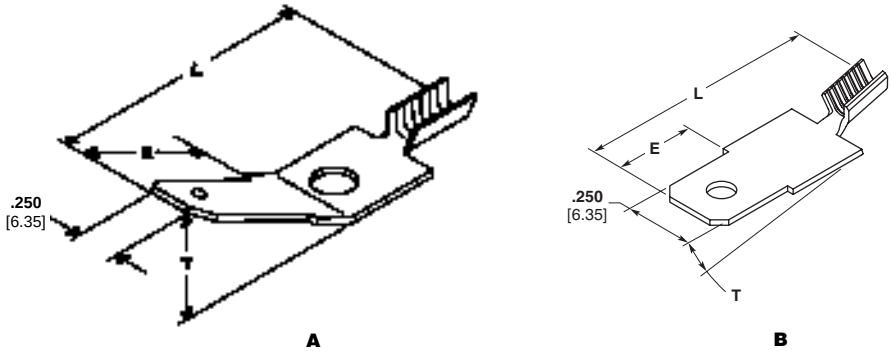
Stock Thickness — .032 [0.81]

Wire Range AWG	Wire Range mm²	Material			Part Number	Quick-Change Applicator[3]
16-12	1.3-3.0	Tin Plated Brass	—	—	62922-1[2]	466510-1

[2] Varnish resist coating.
[3] Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5. For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

250 Series FASTON Tabs
(Continued)

Stock Thickness — .032 [0.81]



A B

Style	Wire Range CMA	Wire Range AWG	Wire Range mm²	Material	Dimensions L	Dimensions E	Dimensions T			Part Number
A	200-566	27.5-23	—	Tin Plated Brass	**.580** 14.73	**.342** 8.69	45°	—	—	63136-1
	400-1,360	25-19.5	—	Tin Plated Brass	**.650** 16.51	**.450** 11.43	30°	—	—	63140-1
B	—	23-19	0.2-0.6	Tin Plated Brass	**.225** 5.72	**.583** 14.81	15°	—	—	63165-1

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FASTON Printed Circuit Board Tabs and Receptacles

Product Facts

- **Full line of PCB tabs and receptacles**
- **Straight and right angle tabs available in .250, .187 and .110 series**
- **Receptacles produced in .250/.205 x .032 or .025. Standard or low insertion force receptacles available.**
- **Strip product for automatic insertion**
- **Compatible with industry insertion equipment or full line of equipment available from Tyco Electronics**

Tyco Electronics now offers a complete line of Printed Circuit Board tabs and receptacles. Tyco Electronics PCB product can be found in switches and on control boards around the world. Our product offering includes .250, .187 and .110 series vertical tabs, .250 and .187 right angle tabs and .250/.205 vertical receptacles. Product is available in loose piece and strip form. In a short time, our product offering has grown from a handful of part numbers to over four dozen salable parts. We continue to add to our product family as design changes, innovation and customers' requirements expand.

Insertion equipment is available for our entire strip product. The semi-automatic, air-powered Modular Insertion System (MIS) Bench machine is available for customers with moderate insertion requirements. The compact, fully automatic Comp-U-Sertor II machine is available for applications where larger volumes will be inserted and where programmable, microprocessor controlled equipment is desired. Insertion heads for both pieces of equipment are interchangeable, requiring less equipment investment. Tyco Electronics will also custom build a complete "pass through" system for high-end customer applications.

The Tyco Electronics product has been designed to be compatible with industry insertion equipment. In many cases, this product will work as a "drop in" replacement for existing product. In some cases, slight modifications or minor tooling changes are necessary. Please consult Technical Support or the Global Applications Tooling Group for more details.

Tyco Electronics is one of the only companies that offers printed circuit board tabs and receptacles as well as the crimp to wire receptacles and tabs that offer a complete solution for your packaging needs.

FASTON Printed Circuit Board Tabs and Receptacles (Continued)

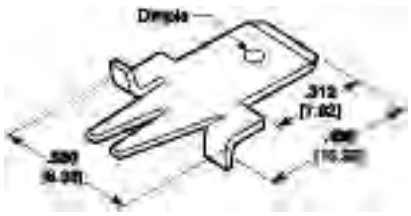
250 Series Printed Circuit Board Tabs

Stock Thickness — .032 [0.81]
Board Hole Size —
.055 ± .002 [1.40 ± 0.05] Dia.

Dimensions				Material and Finish	UL	CSA	Terminal Part No.	
W Piece[1]	L	K	E				Strip[2]	Loos
.312 7.92	**.502** 12.75	**.125** 3.18	**.312** 7.92	Tin Plated Brass	X	X	63839-1[3]	—
	.547 13.89	**.157** 3.99	**.312** 7.92	Tin Plated Brass	X	X	63986-1	—
	.552 14.02	**.150** 3.81	**.312** 7.92	Tin Plated Brass	—	—	1217566-1	—
.295 7.49	**.622** 15.80	**.125** 3.18	**.312** 7.92	Tin Plated Brass	X	X	—	62409-1[3]
					—	—	—	1217056-1
.280 7.11	**.487** 12.37	**.125** 3.18	**.312** 7.92	Tin Plated Brass	X	X	62650-1[3]	—
	.532 13.51	**.175** 4.45	**.312** 7.92	Tin Plated Brass	X	X	63650-1[3]	—
	.622 15.80	**.125** 3.18	**.452** 11.48	Tin Plated Brass	X	X	—	63900-1
					—	—	63755-1[3]	—

[1] Board Hole Size:.060/.053 [1.52/1.35] Dia.
[2] Insertion equipment available.

Stock Thickness — .032 [0.81]
Board Hole Size —
.100 ± .002 [2.54 ± 0.05] Dia.



Material and Finish	UL	CSA	Terminal Part No.	
			Strip[1]	Loose Piece
Tin Plated Brass	X	X	63066-1	63067-1

[1] Insertion equipment available.

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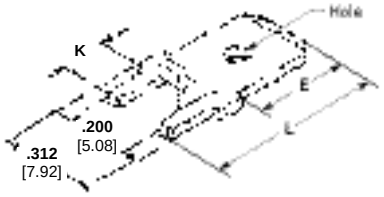
FASTON Printed Circuit Board Tabs and Receptacles (Continued)

250 Series Printed Circuit Board Tabs (Continued)

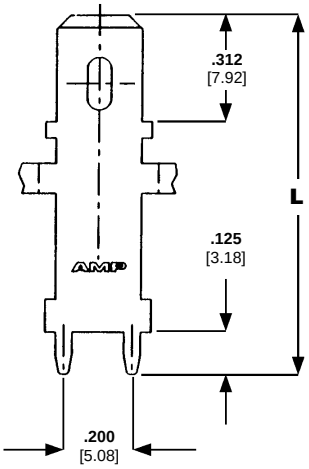
Stock Thickness — .032 [0.81]
Board Hole Size —
.055 ± .002 [1.40 ± 0.05] Dia.



Dimensions			Material and Finish			Terminal Part No.	
L	K	E				Strip[1]	Loose Piece
.552 14.02	**.150** 3.81	**.312** 7.92	Tin Plated Brass	X	X	63862-1[2]	—
				X	X	63824-1	63849-1
.582 14.78	**.180** 4.57	**.312** 7.92	Tin Plated Brass	X	X	1217136-1	—
				—	—	—	1217421-1
.650 16.51	**.150** 3.81	**.410** 10.41	Tin Plated Brass	X	X	1217126-1[2]	—
.710 18.03	**.150** 3.81	**.470** 11.94	Tin Plated Brass	—	—	1217125-1	1217169-1
.780 26.18	**.150** 3.81	**.540** 13.72	Tin Plated Brass	—	—	1217127-1	—
				X	X	—	1217167-1

[1] Insertion equipment available.
[2] Dimple.

Stock Thickness — .032 [0.81]
Board Hole Size —
.055 ± .002 [1.40 ± 0.05] Dia.



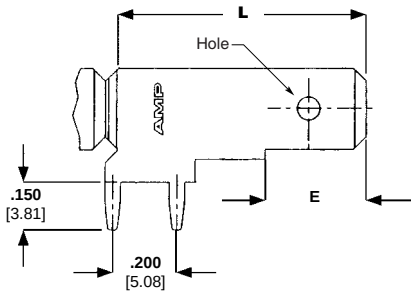
Dimension L	Material and Finish			Terminal Part No.
1.062 26.97	Tin Plated Brass	X	X	63949-1
1.207 30.66	Tin Plated Brass	X	X	63950-1

FASTON Printed Circuit Board Tabs and Receptacles (Continued)

250 Series Printed Circuit Board Tabs (Continued)

Right Angle Printed Circuit Board Tab

Stock Thickness — .032 [0.81]
Board Hole Size —
.055 ± .002 [1.40 ± 0.05] Dia.

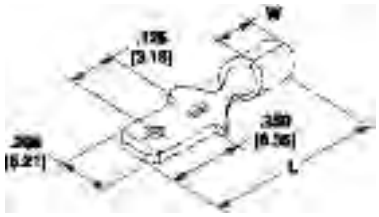


Dimensions		Material and Finish	UL	CSA	Terminal Part No.	
E	L				Strip[1]	Loose Piece
.312 7.92	**.800** 20.32	Tin Plated Brass	X	X	63951-1	1217754-1
.358 9.09	**.630** 16.00	Tin Plated Brass	—	—	928814-1	—
.738 18.74	**1.00** 25.40	Tin Plated Brass	—	—	63952-1	—

[1] Insertion equipment available.

205 Series Printed Circuit Board Only

Stock Thickness — .020 [0.51]
Board Hole Size —
.100 – .095 [2.54 – 2.41] Dia.

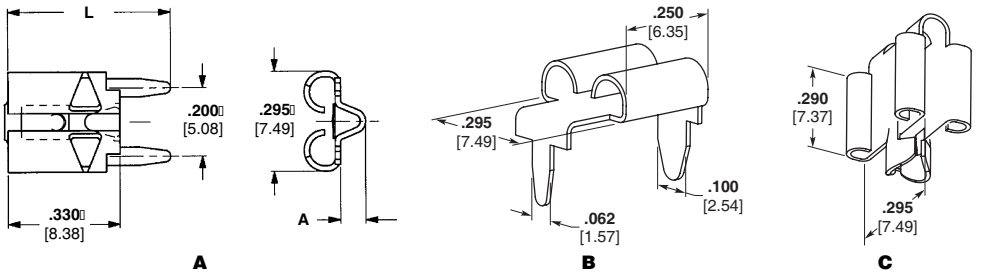


Dimensions		Material and Finish	UL	CSA	Terminal Part No.
L	W				
.525 13.34	**.070** 1.78	Tin Plated Brass	X	X	62411-1[1]
.545 13.84	**.160** 4.06	Tin Plated Brass	X	X	60284-2[1]

[1] Loose piece only.

.250/.205 Printed Circuit Board Receptacle

Stock Thickness — .016 [0.41]



Style	Fits Tab	Dimensions A	Dimensions L	Material and Finish	UL	CSA	Part No. Strip	Part No. Loose Piece
A	**.032** 0.81 (LIF)	**.075** 1.91	**.480** 12.19	Tin Plated Brass	—	—	63968-1	—
	.032 0.81	**.075** 1.91	**.480** 12.19	Tin Plated Brass	—	—	63969-1	1217080-1
	.025 0.64 (LIF)	**.075** 1.91	**.480** 12.19	Tin Plated Brass	—	—	63994-1	—
	.025 0.64	**.075** 1.91	**.510** 12.95	Tin Plated Brass	—	—	1217137-1[2]	—
			.480 12.19	Tin Plated Brass	—	—	1217180-1	—
B	**.020** 0.51	—	—	Tin Plated Phos Bronze	—	—	1217107-1[1]	—
C	**.250 x .016** 6.35 x 0.41 Spade	—	—	Tin Plated Brass	—	—	62751-1	62806-1

[1] Horizontal mount.
[2] .180 [4.57] length — solder legs.

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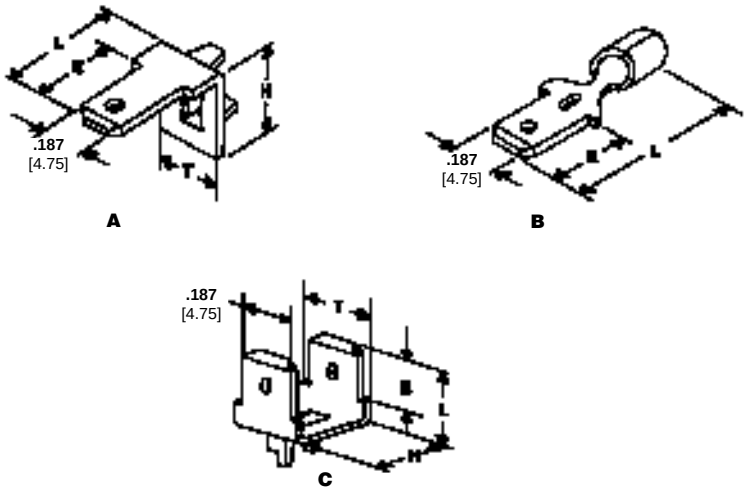
Japan: 81-44-844-8013
UK: 44-208-420-8341

187 Series
Printed Circuit Board Tabs

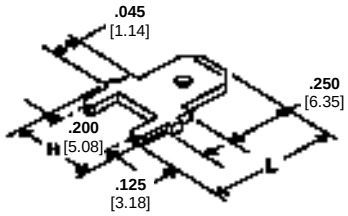
Stock Thickness — .020 [0.51]

FASTON Printed Circuit Board Tabs and Receptacles (Continued)



Type	Board Thickness	Dimensions T	L	E	H	Material and Finish	UL	CSA	Terminal Part No.
A	**.055** 1.38	**.250** 6.35	**.332** 8.43	**.250** 6.35	**.283** 7.19	Pre-Tin Brass	X	X	61543-1[2]
	.062 1.57	**.250** 6.35	**.332** 8.43	**.250** 6.35	**.283** 7.19	Pre-Tin Brass	X	X	62403-1[2]
B	**.062** 1.57	—	**.545** 13.84	**.250** 6.35	—	Tin-Plated Brass	X	X	61907-1[1]
C	**.062** 1.57	**.250** 6.35	**.332** 8.43	**.250** 6.35	**.303** 7.70	Pre-Tin Brass	X	X	62221-1[2]

[1] Loose piece only.
[2] Insertion equipment available.

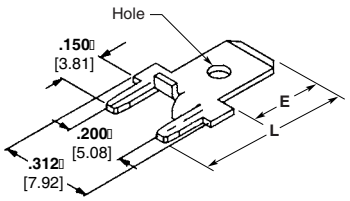


Tab Part No. Thickness	Board Hole Size	Dimensions L	H	Material and Finish	UL	CSA	Terminal Strip[2]	Terminal Loose Piece
.032 0.81	**.053-.057** 1.35-1.45	**.487** 12.37	**.280** 7.11	Tin Plated Brass	X	X	63525-1[1]	1217057-1[1]
.020 0.51	**.050-.054** 1.27-1.37	**.487** 12.37	**.285** 7.24	Tin Plated Brass	X	X	63603-1	1217131-1
		.440 11.18	**.312** 7.92	Tin Plated Brass	X	X	63838-1	—

[1] Dimple.
[2] Insertion equipment available.

FASTON Printed Circuit Board Tabs and Receptacles (Continued)

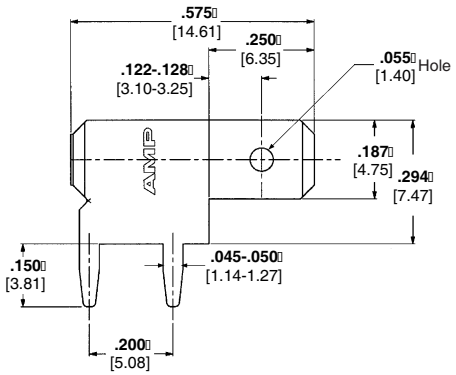
187 Series Printed Circuit Board Tabs (Continued)



Tab Thickness	Dimensions L	Dimensions E	Material and Finish	UL	CSA	Terminal Part No. Strip[3]	Terminal Part No. Loose Piece
.032 0.81	.490 12.45	.250 6.35	Tin Plated Brass	X	X	63860-1[1]	—
				—	—	1217133-1	—
	.710 18.03	.470 11.94	Tin Plated Brass	X	X	1217124-1	—
	.635 16.13	.395 10.03	Tin Plated Brass	—	—	—	1217332-1[2]
.020 0.51	.490 12.45	.250 6.35	Tin Plated Brass	X	X	63823-1	63982-1

[1] Dimple.
[2] No hole or dimple.
[3] Insertion equipment available.

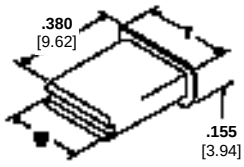
Right Angle Printed Circuit Board Tab



Stock Thickness	Board Hole Size	Material and Finish	UL	CSA	Terminal Part No.
.032 0.81	.053-.057 1.35-1.45	Tin Plated Brass	X	X	1217061-1
			—	—	1217756-1[1]
.020 0.51	.050-.054 1.27-1.37	Tin Plated Brass	X	X	1217062-1
			—	—	1217156-1[1]

[1] Loose piece.

Tab Caps 187 and 250 Series



Tab Size	Material	UL 94[1]	Color	Dimensions T	Dimensions W	Insulator Part No.
"187" Series .020 [0.51] Thick	Nylon	V2	Natural	.320 8.13	.260 6.60	360041-1
"250" Series .032 [0.81] Thick	Nylon	V2	Natural	.380 9.65	.320 8.13	360042-1

[1] Flammability rating.

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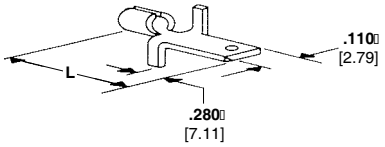
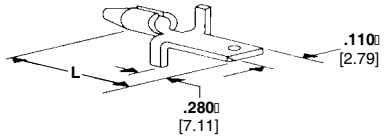
FASTON Printed Circuit Board Tabs and Receptacles (Continued)

.110 Series Printed Circuit Board

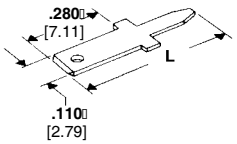
Stock Thickness — .020 [0.51]



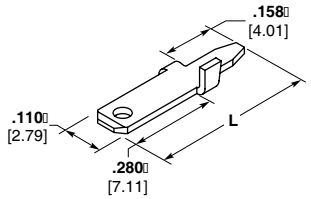
A



B



C

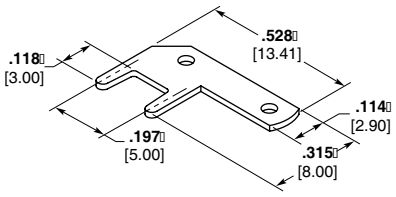


D

Style	Mating Hole Diameter	Dim. L	Material and Finish	UL	CSA	Terminal Part No.
A	**.060-.055** 1.52-1.40	**.490** 12.45	Tin Brass	X	X	61134-3[1]
B	**.067-.063** 1.70-1.60	**.485** 12.32	Tin Brass	X	X	61968-1[2]
				X	X	62437-1[1]
C	**.044-.048** 1.12-1.22	**.490** 12.45	Tin Brass	X	X	62395-1[2]
		.622 15.80	Tin Brass	X	X	63756-1[2,3]
		.910 23.11	Tin Brass	—	—	63794-1[4]
		.550 13.97	Tin/Lead	—	—	1217121-1[1]
		.622 15.80	Tin Brass	—	—	1217514-1
	.067-.073 1.70-1.85	**.490** 12.45	Pre-tin/ Pre-copper	X	X	62669-1[2]
D	**.062-.068** 1.57-1.73	**.545** 13.84	Tin Brass	—	—	1217577-1[2]

[1] Loose piece only.
[2] Insertion machine available.
[3] .032 [0.81] Stock.
[4] .060 [1.52] Tab width.

Right Angle Printed Circuit Board Tabs



Tab Thickness	PCB Hole Dia. +0/-.01 [+0/-.03]	Material and Finish	UL	CSA	Terminal Part No.
.032 0.81	**.055** 1.40	Tin Plated Brass	—	—	725963-2
.020 0.51	**.051** 1.30	Tin Plated Brass	—	—	725996-2

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FASTON Printed Circuit Board Tabs and Receptacles (Continued)

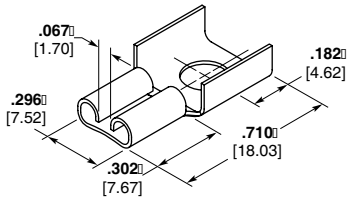
250 Series

FASTON Tab Adapters

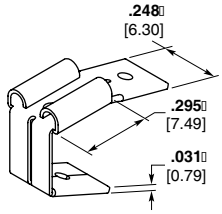
Fits Tab — .032 [0.81]

A

B



C



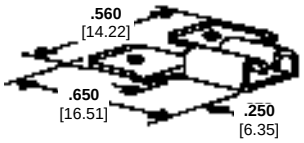
D

Style	Stock Thickness	Dimensions W	Dimensions L	Dimensions E	Material and Finish	UL	CSA	Terminal Part No.
A	.018 0.46 Recpt. / .032 0.81 Tabs	.650 16.51	.770 19.56	.305 7.75	Brass	X	X	61765-1
					Tin Plated Brass	X	X	61765-2[1]
						—	—	1217033-1
B	.018 0.46	.300 7.62	.700 11.78	—	Tin Plated Brass	X	X	61810-2
						X	X	63918-1[2]
C	.016 0.41	—	—	—	Nickel Plated Steel	—	—	151302-2
	.016 0.41	—	—	—	Brass (90°)	—	—	152422-1
D	.016 0.41 Recpt. / .032 0.81 Tabs	—	—	—	Brass	—	—	726308-1

[1] No tab stop on receptacle.
[2] Fits .025 [0.64] thick tab.

187 Series

FASTON Tab Adapters



A

Style	Stock Thickness	Receptacle Fits Tab	Material and Finish	UL	CSA	Terminal Part No.
A	.013 0.33 Recpt. / .020 0.51 Tabs	.020 0.51	Tin Plated Brass	X	X	61045-2
	.013 0.33 Recpt. / .032 0.81 Tabs	.032 0.81	Tin Plated Brass	X	X	63699-1

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FASTON Printed Circuit Board Tabs and Receptacles (Continued)

Tab Receptacles

A

B

C

D

E

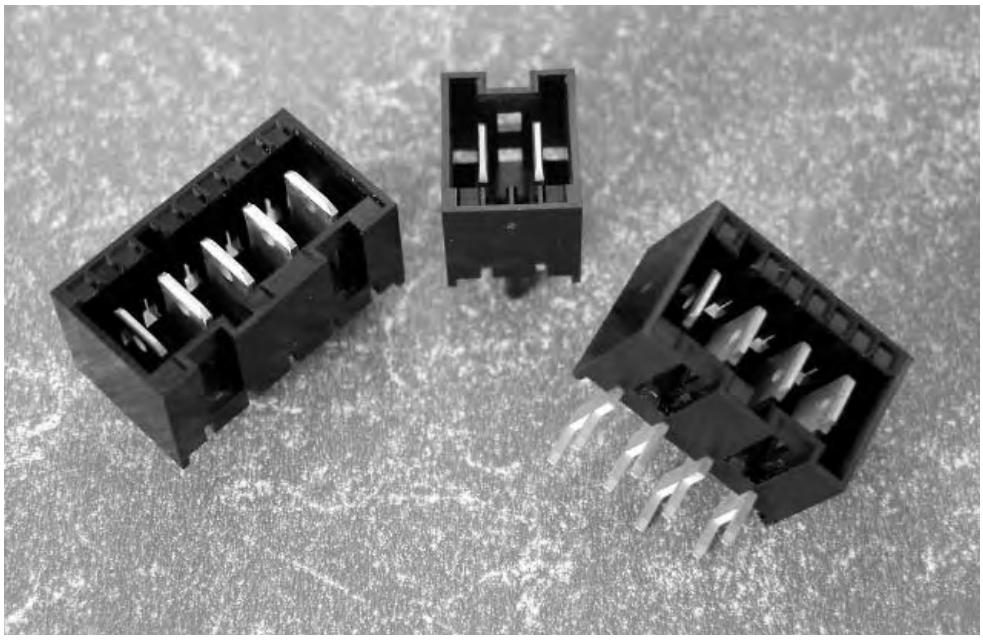
F

Wire Range AWG	Wire Range mm²	Type	Insul. Dia. Range	Stock Thk.	Material and Finish	Fits Tab	Dimensions E	Dimensions L	Dimensions W	Part No.
26-22	0.12-0.4	B	**.035-.065** 0.89-1.65	**.010** .025	Pre-Tin Brass	**.031 x .093** 0.79 x 2.36	**.190** 4.83	**.475** 12.06	**.120** 3.05	61813-1[5]
24-20	0.2-0.6	A	**.040-.080** 1.02-2.03	**.010** 0.25	Brass	**.045 x .045** 1.14 x 1.14	**.130** 3.3	**.372** 9.45	**.095** 2.41	60524-1
					Tin Plated Beryllium Copper	**.045 x .045** 1.14 x 1.14	**.130** 3.3	**.372** 9.45	**.095** 2.41	60524-5
		B	**.040-.080** 1.02-2.03	**.010** 0.25	Tin Plated Brass	**.031 x .062** 0.79 x 1.57	**.187** 4.75	**.462** 11.73	**.090** 2.29	60900-1[1]
					Gold Plated Brass	**.031 x .062** 0.79 x 1.57	**.187** 4.75	**.462** 11.73	**.090** 2.29	60900-2
					Tin Plated Brass	**.031 x .062** 0.79 x 1.57	**.187** 4.75	**.462** 11.73	**.090** 2.29	60900-4[2]
					Gold Plated Brass	**.031 x .062** 0.79 x 1.57	**.187** 4.75	**.462** 11.73	**.090** 2.29	60900-5[7]
					Tin Plated Brass	**.031-.062** 0.79-1.57	**.187** 4.75	**.462** 11.73	**.090** 2.29	63887-1
		F	—	**.010** 0.25	Tin Plated Brass	**.015 x .050** 0.38 x 1.27	**.145** 3.68	**.310** 7.87	**.070** 1.78	62352-1
22-20	0.3-0.6	E	—	**.010** 0.25	Tin Plated Brass	**.037 x .125** 0.94 x 3.18	**.190** 4.83	**.425** 10.8	**.160** 4.06	41989
22-18	0.3-0.9	A	**.060-.110** 1.52-2.79	**.010** 0.25	Tin Plated Brass	**.031 x .062** 0.79 x 1.57	**.130** 3.3	**.372** 9.45	**.090** 2.29	61489-1
					Gold Plated Brass	**.031 x .062** 0.79 x 1.57	**.130** 3.3	**.372** 9.45	**.090** 2.29	61616-1
		B	**.050-.085** 1.27-2.16	**.010** 0.25	Pre-Tin Brass	**.010 x .093** 0.25 x 2.36	**.190** 4.83	**.480** 12.19	**.120** 3.05	63391-1[3,4]
					Pre-Tin Brass	**.010 x .093** 0.25 x 2.36	**.190** 4.83	**.480** 12.19	**.120** 3.05	63391-2[4]
20-18	0.5-0.9	B	**.080-.120** 2.03-3.05	**.010** 0.25	Pre-Tin Brass	**.032 x .103** 0.81 x 2.62	**.200** 5.08	**.480** 12.19	**.126** 3.2	60252-1[6]
					Pre-Tin Brass	**.020 x .103** 0.51 x 2.62	**.200** 5.08	**.480** 12.19	**.126** 3.2	60432-1[6]
					Tin Plated Brass	**.020 x .156** 0.51 x 3.96	**.200** 5.08	**.480** 12.19	**.179** 4.55	62399-1
		D	—	**.010** 0.25	Brass	**.010 x .110** 0.25 x 2.79	**.200** 5.08	**.380** 9.65	**.148** 3.76	62589-1
18-14	0.8-2.0	C	—	**.025** 0.64	Brass	**.060 x .250** 1.52 x 6.35	**.520** 13.2	**.985** 25.02	**.250** 6.35	60312-1

[1] Available in loose piece form, order Part No. 61454-1.
[2] Reverse reel of 60900-1.
[3] Loose piece form, of Part No. 63391-2.
[4] Compliant base.
[5] No dimple.
[6] Dimple.
[7] Reverse reel of 60900-2.

FASTON Printed Circuit Board Tabs and Receptacles (Continued)

FASTON RAST 5 Tab Header Assembly, 250 Series



Product Facts

- **.250 x .032 [6.3 x 0.8] FASTON Tabs built on 5 mm centerlines**
- **Shrouded Header Assembly that conforms to the European RAST 5 Standard**
- **Mating Tyco Electronics Connector Families include AMP Positive Lock RAST 5 Connector System, AMP Standard Timer RAST 5, AMP multifitting, AMP multifitting MKII, AMP MONO-SHAPE TAB MKI, and AMP MONO-SHAPE MKII**
- **Vertical and Right-Angle Versions available in 2 through 8 positions**
- **Tin Plated Brass Tabs are Standard, Silver Plated Tab Versions are available upon Request**
- **Lead Free Design is RoHS and ELV Compliant**
- **UL 94 V-0 Housing meets Glow Wire IEC 60695-1 Section 30.2.3 – 750° NO FLAME**
- **Agency approvals will include UL, CSA, TUV, and VDE**

The AMP FASTON RAST 5 Tab Header Assembly system is designed to provide a RAST 5 interface to a Printed Circuit Board. The RAST 5 Standard defines and standardizes the connector mating interface. 250 Series Tabs are placed on 5mm center lines with a plastic shroud that has keying, polarization, and locking features that help prevent mismating of the corresponding RAST 5 Female Receptacle Housing. The Header Assembly is designed to accept any RAST 5 compliant Female receptacle system or individual Quick Connects.

The most common application for this product is for Household Appliance Controls where OEM's want to minimize the possibility of crossed wires. It is also suited for other applications such as Gaming, Vending, and Exercise Equipment controls as well as Residential, Commercial and Industrial HVAC and light industrial equipment.

The system comes fully assembled and is easily press fit into the board for the soldering operation. Preassembly of the tabs into the Header ensures tab perpendicularity to the board. The solder leg PCB layout is based on the Industry Standard for similar systems available on the market. To further ensure correct placement onto the board, the vertical system includes a plastic post which allows Header placement to be polarized.

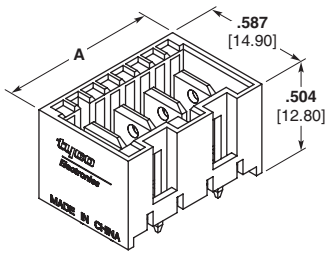
Material

UL 94 V-0, 6/6 Nylon

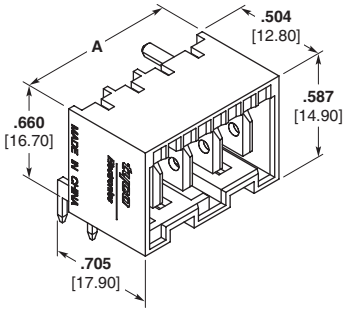
See Tyco Electronics Catalogs 296599, 889803, 1308197, 1308209 for the complete line of RAST products.

FASTON Printed Circuit Board Tabs and Receptacles (Continued)

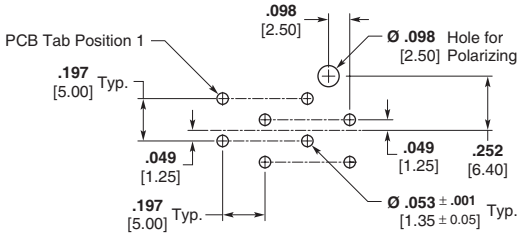
FASTON RAST 5 Tab Header Assembly, 250 Series
(Continued)



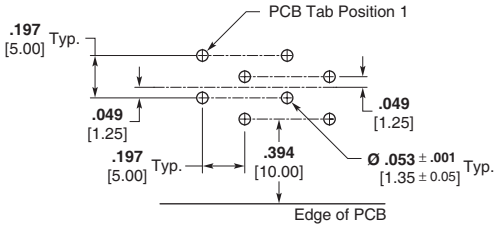
Vertical Orientation



Right Angle Orientation



Vertical Orientation PCB Layout (Ref.) from Component Side



Right Angle Orientation PCB Layout (Ref.) from Component Side

No. of Positions	RAST 5 Configuration	Dim. A	Part Numbers	
			Vertical	Right Angle
2	02-A	.484 [12.30]	521382-2	521384-2
	02-B	.484 [12.30]	1-521382-2	1-521384-2
	02-C	.484 [12.30]	2-521382-2	2-521384-2
	02-E	.484 [12.30]	3-521382-2	3-521384-2
	02-G	.484 [12.30]	4-521382-2	4-521384-2
	02-I	.484 [12.30]	5-521382-2	5-521384-2
	02-P	.484 [12.30]	6-521382-2	6-521384-2
3	03-A	.681 [17.30]	521382-3	521384-3
	03-B	.681 [17.30]	1-521382-3	1-521384-3
	03-D	.681 [17.30]	2-521382-3	2-521384-3
	—	.681 [17.30]	3-521382-3	3-521384-3
4	04-A	.878 [22.30]	521382-4	521384-4
	04-B	.878 [22.30]	1-521382-4	1-521384-4
	04-C	.878 [22.30]	2-521382-4	2-521384-4
	04-F	.878 [22.30]	3-521382-4	3-521384-4
	04-G	.878 [22.30]	4-521382-4	4-521384-4
	—	.878 [22.30]	5-521382-4	5-521384-4
5	05-B	1.075 [27.30]	521382-5	521384-5
	—	1.075 [27.30]	1-521382-5	1-521384-5
	—	1.075 [27.30]	2-521382-5	2-521384-5
	—	1.075 [27.30]	3-521382-5	3-521384-5
6	06-A	1.272 [32.30]	521382-6	521384-6
	06-D	1.272 [32.30]	1-521382-6	1-521384-6
7	07-C	1.469 [37.30]	521382-7	521384-7
	—	1.469 [37.30]	1-521382-7	1-521384-7
	—	1.469 [37.30]	2-521382-7	2-521384-7
	—	1.469 [37.30]	3-521382-7	3-521384-7
8	08-D	1.665 [42.30]	521382-8	521384-8
	—	1.665 [42.30]	1-521382-8	1-521384-8
	08-C	1.665 [42.30]	2-521382-8	2-521384-8

Refer to the Tyco Electronics Customer Drawing for additional details.
For more information related to the RAST 5 Standard, see Tyco Electronics Literature Distribution no. 1308243.

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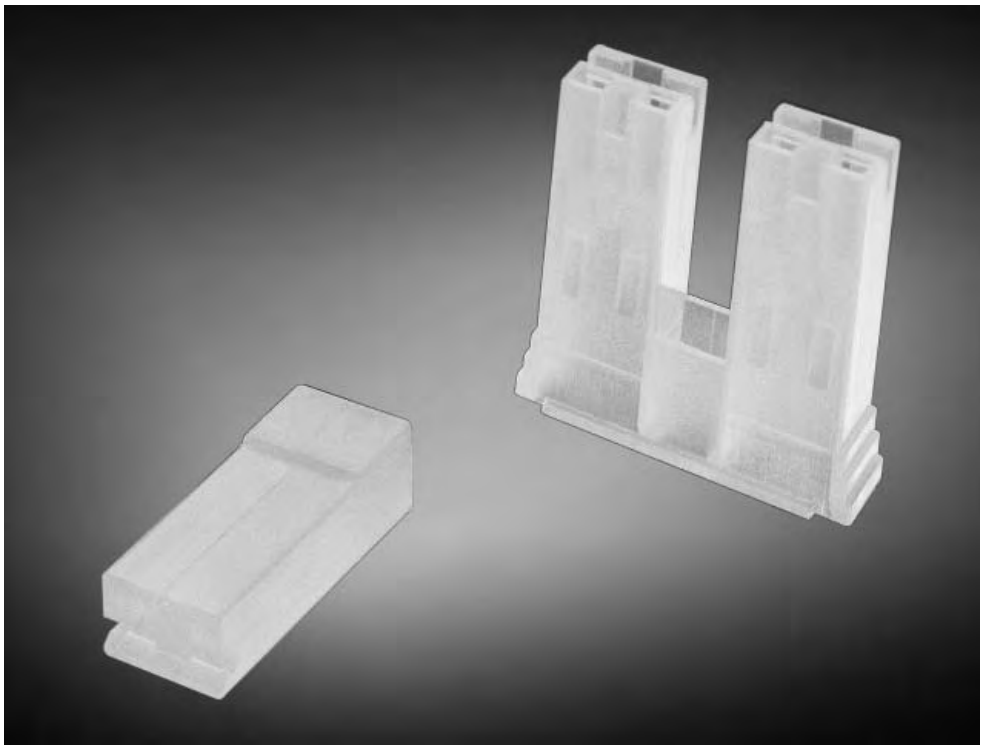
UK: 44-208-420-8341

FASTON Housings

Product Facts

- **Straight, right angle, multiple position and special application housings available**
- **Various materials and temperature ratings available**
- **Accept FASTON receptacles**
- **Special application housings include Microswitch, gas valve and water valve housings**
- **Available in .250, .205, .187 and .110 Series**
- **Translucent plastic insulating sleeves in both straight and flag configurations**



FASTON housings are designed to be used with the FASTON terminal line. They come in sizes ranging from .250, .205, .187 and .110 and are available in multiple positions and configurations. Included in this line are special connectors, including water valve connectors, Microswitch connectors, gas valve connectors, and various other special application connectors. Many of these housings are available in both V-2 and V-0 rated materials. Translucent plastic insulating sleeves are available for use with FASTON receptacles and flags.

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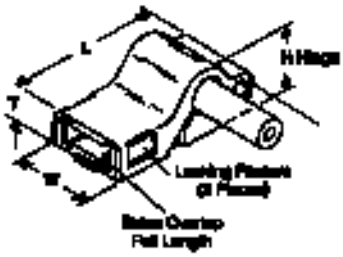
FASTON Housings (Continued)

AMPIP Post-Insulation Pods

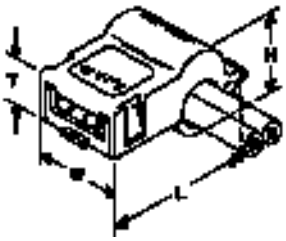
Flag Style Receptacle Housings

A
.250 Series



B
.250 Series

C
.250 Series

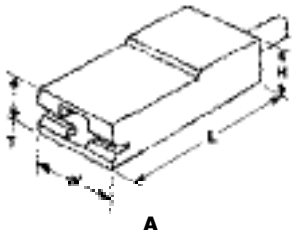


D
.187 Series

Style	Material	UL 94[1]	Color	Insulation Dia. Max.	Dimensions L	T	W	H	Part Number	Type	Accepts Terminal		
A	Nylon	V2	Natural	.210 5.33	.787 19.99	.266 6.76	.448 11.38	.360 9.14	1-480298-0 1-480307-1	Continuous Strip	"250" Series Flag FASTON Tab-Lok Receptacles 41531, 41532, 42511, 61156, 63445	X	X
		V0	Natural	.210 5.33	.787 19.99	.266 6.76	.448 11.38	.360 9.14	1-480307-7				
		V2	Nat. 150°	.210 5.33	.787 19.99	.266 6.76	.448 11.38	.360 9.14	1-480307-6	Loose Piece			
B	Nylon	V2	Natural	.140 3.56 or (2) .110 2.79	.732 18.59	.180 4.57	.460 11.68	.315 8.00	1-480296-0	Continuous Strip	"250" Series Flag FASTON Commercial Receptacle 60290, 60736, 62418	X	X
									1-480306-1	Loose Piece			
C	Vinyl	HB	Blue	.150 3.81	.710 18.03	.210 5.33	.380 9.65	.400 10.16	480019-6	Loose Piece	"250" Series F-Crimp Flag FASTON	—	—
D	Nylon	V2	Natural	.175 4.45	.699 17.75	.230 5.84	.430 10.92	.320 8.13	1-480487-2	Loose Piece	"187" Series Tab-Lok Flag FASTON[2]	X	—

[1] Flammability rating of plastic material.
[2] Does not accept commercial series.

Straight Style Receptacle Housing



A
.250 Series

Style	Type	Material	UL 94[1]	Color	Insulation Dia. Max.	Dimensions L	T	W	H	Part Number	Accepts Terminal		
A	Loose Piece	Nylon	V2	Natural	.260 6.60	.961 24.40	.181 4.60	.358 9.10	.314 8.00	171706-1	"250" Series FASTON Receptacles	X	X
			V2	Natural	.224 5.69	1.03 26.20	.225 6.70	.490 12.40	.285 7.20	521053-1		—	—
			V2	Natural	.200 5.08	.920 23.37	.280 6.60	.390 9.91	.298 7.57	1-480416-0		X	X
			V0	Natural	.200 5.08	.920 23.37	.280 6.60	.390 9.91	.298 7.57	1-480416-7			
			V2	Natural 150°	.200 5.08	.920 23.37	.280 6.60	.390 9.91	.298 7.57	1-480416-8			
				Black	.200 5.08	.920 23.37	.280 6.60	.390 9.91	.298 7.57	1-480416-1			
			V2	Natural	.187 4.75	.995 25.30	.193 4.90	.354 9.00	.252 6.40	280232		—	—
			V0	Natural	.187 4.75	.995 25.30	.193 4.90	.354 9.00	.252 6.40	280232-6		—	—
			V2	Natural	.169 4.30	.960 24.40	.181 4.60	.366 9.30	.209 5.30	336369-1		X	—
		Polypropylene	V2	Clear	.161 4.10	.960 24.40	.181 4.60	.362 9.20	.209 5.30	735075		X	—

[1] Flammability rating of plastic material.

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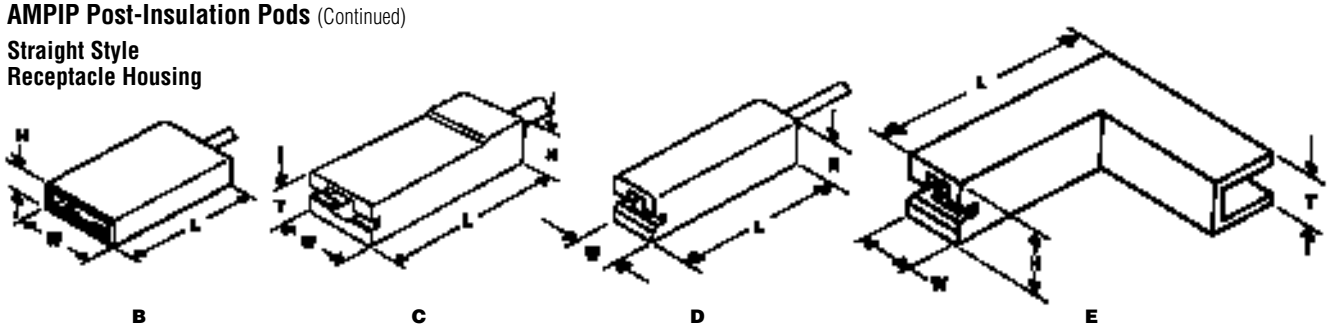
FASTON Housings (Continued)

AMPIP Post-Insulation Pods (Continued)

Straight Style
Receptacle Housing



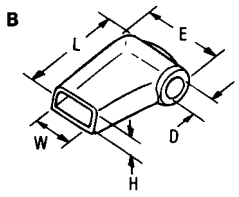
B .250 Series | **C** .205/.187 Series | **D** .110 Series | **E** .110 Series

Style	Type	Material	UL 94[1]	Color	Insulation Dia. Max.	Dimensions L	T	W	H	Part Number	Accepts Terminal		
B	Loose Piece	Nylon	V2	Natural	**.125** 3.18	**.955** 24.26	—	**.570** 14.48	**.190** 4.83	1-480458-0	"250" Series FASTON Economy Receptacles 42660, 42743, 42845, 61202	X	X
C	Loose Piece	Nylon	V2	Natural	**.180** 4.57	**.775** 19.69	**.225** 5.72	**.338** 8.59	**.245** 6.22	1-480418-0	"205" Series FASTON Receptacles 42197, 42198, 42710, 42712, 42713, 60904	X	X
				Natural	**.170** 4.32	**.775** 19.69	**.215** 5.46	**.308** 7.82	**.235** 5.97	1-480435-0	"187" Series FASTON Receptacles 42373, 42374, 42452, 42453, 42617, 60487, 60573, 62137, 62138, 62187, 63475, 63477	X	X
D	Loose Piece	Nylon	V2	Natural	**.150** 3.81	**.790** 20.07	—	**.235** 5.97	**.240** 6.10	1-480417-0	"110" Series FASTON Receptacles 42067, 42068, 42236, 42398, 42399, 42415, 60118, 60197, 60577, 60601, 60729, 61158, 61400, 61457, 61818, 62050, 62094, 62191, 62345	X	X
				Black	**.150** 3.81	**.790** 20.07	—	**.235** 5.97	**.240** 6.10	1-480417-1		X	X
E	Loose Piece	Nylon	V2	Natural	—	**.550** 13.97	**.205** 5.21	**.225** 5.72	**.200** 5.08	360040-1	"110" Series FASTON 61070, 61481, 62336	X	X

[1] Flammability rating of plastic material.

Insulation Sleeves For FASTON Receptacle

Material — Soft Vinyl Chloride Cloudy



Style	FASTON Series	Dimensions D	E	L	W	H	Part Number
A	250	**.079** 2.00	**.748** 19.00	**.945** 24.00	**.315** 8.00	**.138** 3.50	170823-3
		.098 2.50					170823-2
		.126 3.20	**.866** 22.00	**1.06** 27.00	**.315** 8.00	**.138** 3.50	1-170823-8
		.138 3.50	**.787** 20.00	**.984** 25.00	**.315** 8.00	**.138** 3.50	1-170823-5
			1.18 30.00	**1.38** 35.00			1-170823-9
			1.38 35.00	**1.57** 40.00			2-170823-0
		.189 4.80	**.787** 20.00	**.984** 25.00	**.315** 8.00	**.138** 3.50	170823-6
	205	**.098** 2.50	**.709** 18.00	**.906** 23.00	**.256** 6.50	**.118** 3.00	4-170823-1
	187	**.087** 2.20	**.709** 18.00	**.906** 23.00	**.228** 5.80	**.087** 2.20	1-170823-3
		.098 2.50	**.591** 15.00	**.787** 20.00	**.228** 5.80		1-170823-4
	110	**.071** 1.80	**.300** 16.00	**.827** 21.00	**.157** 4.00	**.083** 2.10	170823-9
		.098 2.50					170823-1
B	250	**.126** 3.20	**.571** 14.50	**.728** 18.50	**.335** 8.50	**.177** 4.50	170891-1
		.189 4.80					170891-2
	187	**.126** 3.20	**.488** 12.40	**.587** 14.90	**.256** 6.50	**.118** 3.00	3-170823-8

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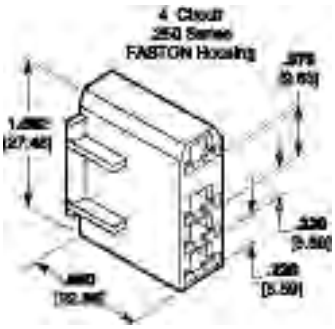
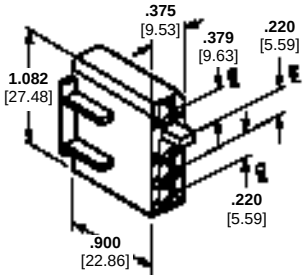
FASTON Housings (Continued)

Multi-Position Housings

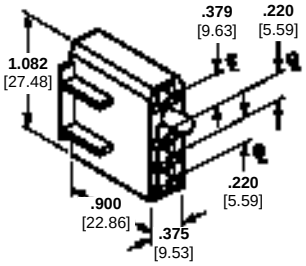
.250 [6.35] Series



A



B



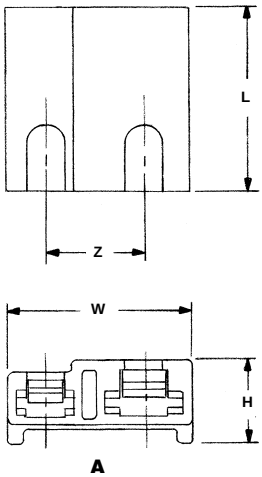
C

Style	Material	UL 94[1]	Color	Part Number	Accepts Terminals		
A	Nylon	V2	Black	520987-1	.250 Low Insertion Terminals	X	X
			Natural	520987-2			
		V0	Black	520987-4			
B	Nylon	V2	Black	521065-1	.250 Low Insertion Terminals	X	X
C	Nylon	V2	Black	521066-1	.250 Low Insertion Terminals	X	X

[1] Flammability rating of plastic material.

Multi-Position Housings

.187 [4.75]/.250 [6.35] Series



A

Style	Material	UL 94[1]	Color	Dimensions Z	Dimensions W	Dimensions H	Dimensions L	Part Number	Accepts Terminal		
A	Nylon	V2	Natural	.400 10.16	.732 18.59	.340 8.64	.715 18.16	520171-1[2]	63306, 63365, 63475, 63477, 63609, 63648	X	X
			Black	.400 10.16	.732 18.59	.340 8.64	.715 18.16	520171-2[2]			
			Yellow	.400 10.16	.732 18.59	.340 8.64	.715 18.16	520171-3[2]			

[1] Flammability rating of plastic material.
[2] Accepts (1) .187 [4.75] and (1) .250 [6.35] receptacle.

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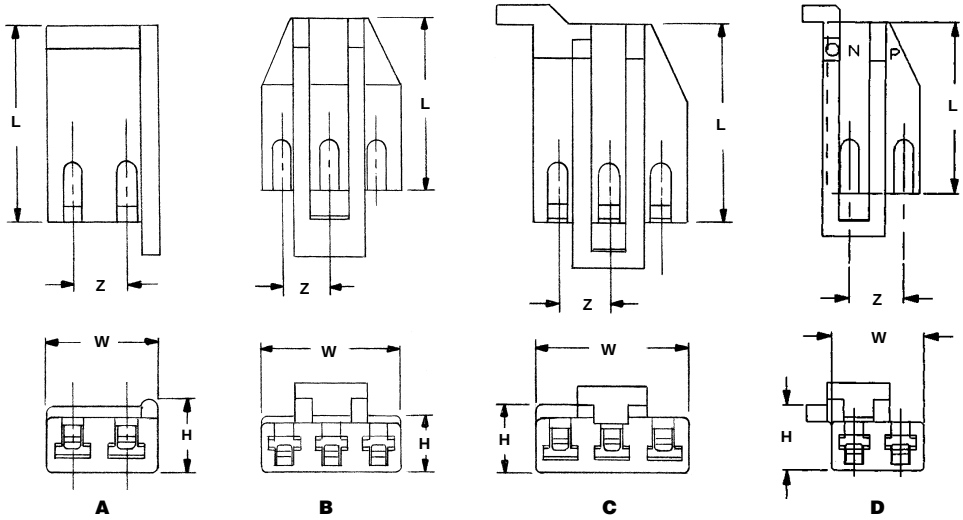
FASTON Housings (Continued)

Multi-Position Housings

.110 [2.79] Series

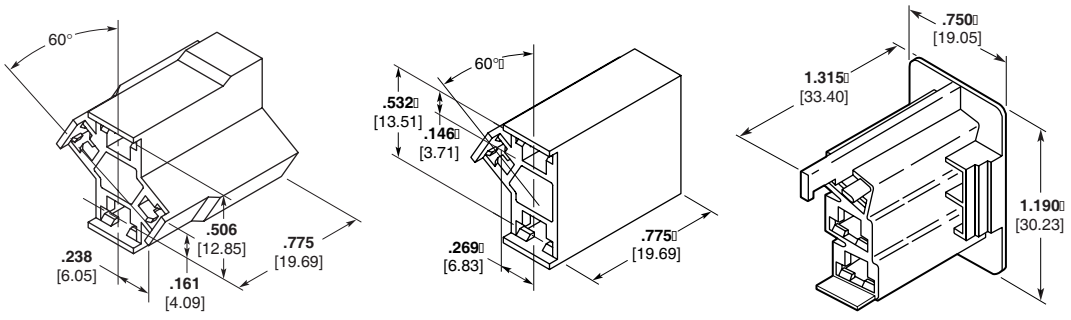


Style	Material	UL 94[1]	Color	Dimensions Z	Dimensions W	Dimensions H	Dimensions L	Part Number	Accepts Terminal[2]		
A	Nylon	V2	Black	.224 5.69	.470 11.94	.305 7.75	.825 20.96	520206-2	62942, 63021, 63093	X	X
			Yellow					520206-3			
D	Nylon	V2	Black	.224 5.69	.444 11.28	.315 8.00	.827 21.01	520217-2	62942, 63021, 63093	X	X
			Yellow					520217-3			
	Polyester	HB	Natural					520217-4			
B	Nylon	V2	Natural	.224 5.69	.668 16.97	.235 5.97	.825 20.96	520219-1	62942, 63021, 63093	X	X
			Black					520219-2			
	Polyester	HB	Black	.224 5.69	.668 16.97	.235 5.97	.825 20.96	520219-4			
C	Nylon	V2	Black	.224 5.69	.444 11.28	.315 8.00	.866 22.00	520220-2	63093	X	X

[1] Flammability rating of plastic material.
[2] For dimensions see Tyco Electronics customer drawing.

Housings for Special Applications

Appliance Connectors



A

B

C
Eaton Dryer Timer Connector

Style	Material	UL 94[1]	Color	Part Number	Accepts Terminals		
A	Nylon	V2	Natural 150°C	521251-1	110/187	X	—
B	Nylon	V2	Natural	520978-1	110/187	X	X
			Natural 150°C	520978-2	110/187	X	X
C	Nylon	V2	Natural	521004-1	187 LIF	X	X

[1] Flammability rating of plastic material.

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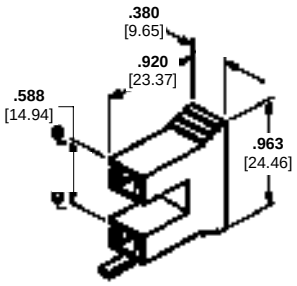
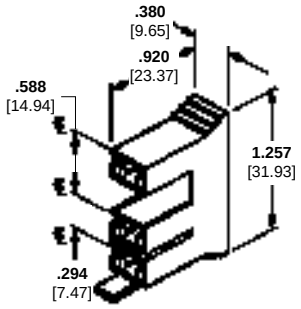
FASTON Housings (Continued)

Housings for Special Applications (Continued)

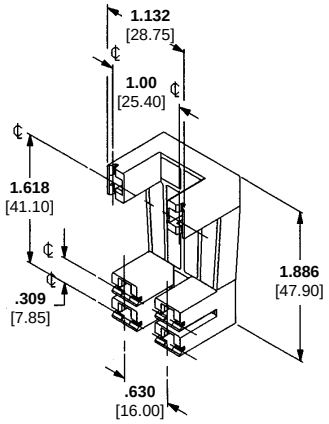
Appliance Connectors (Continued)



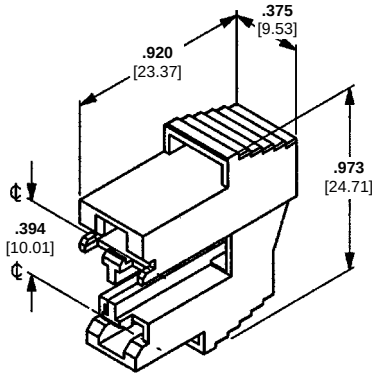
A
T-Motor Connector



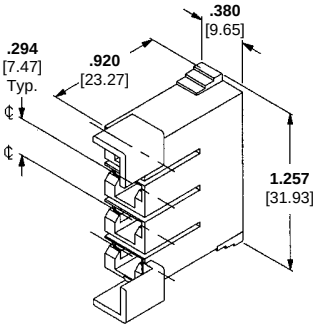
B
T-Motor Connector



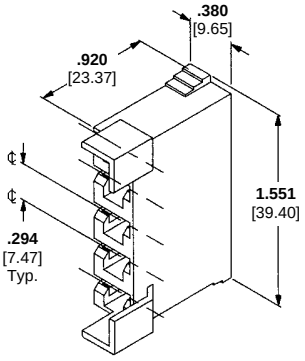
C
Potter & Brumfield Relay



D



E
T-Motor Connector



F
T-Motor Connector

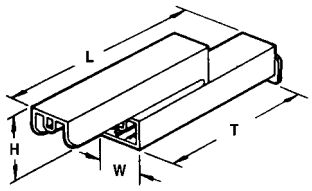
Style	Material	UL 94[1]	Color	Part Number	Accepts Terminals		
A	Nylon	V2	Natural	521069-1	250 LIF	X	X
B	Nylon	V2	Black	521070-1	250 LIF	X	X
C	Nylon	V2	Black	521140-1	63981-1	X	X
D	Nylon	V2	Black	521148-1	187 LIF/ 250 LIF	X	X
E	Nylon	V2	Natural	521123-1	250 LIF	X	X
F	Nylon	V2	Natural	521124-1	250 LIF	X	X

[1] Flammability rating of plastic material.

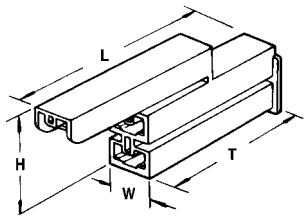
FASTON Housings (Continued)

Housings for Special Applications (Continued)

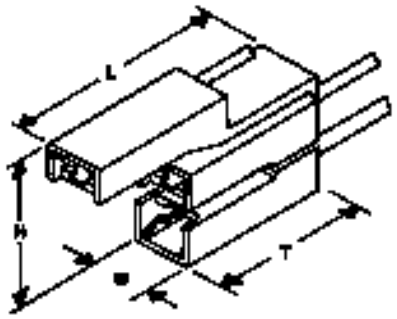
Microswitch Connectors



A



B

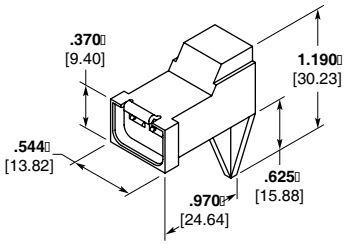


C
.187 Series

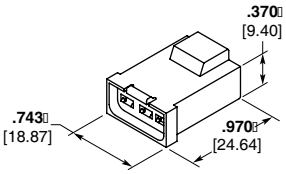
Style	Type	Material	UL 94[1]	Color	Insulation Dia. Max.	Dimensions L	T	W	H	Part Number	Accepts Terminal		
A	Loose Piece	Nylon	V2	Natural	.157 4.00	1.720 43.70	1.035 26.30	.307 7.80	.520 13.20	174712-1	170324, 170325, 170326	X	X
			V0	Natural	.157 4.00	1.720 43.70	1.035 26.30	.307 7.80	.520 13.20	1-174712-1			
B	Loose Piece	Nylon	V2	Natural	.157 4.00	1.720 43.70	1.035 26.30	.307 7.80	.770 19.50	172075-1	170324, 170325, 170326	X	X
			V0	Natural	.157 4.00	1.720 43.70	1.035 26.30	.307 7.80	.770 19.50	1-172075-1			
C	Loose Piece	Nylon	V2	Natural	.170 4.32	1.655 42.04	.845 21.46	.317 8.05	.875 22.23	520212-1	"187" Series FASTON Receptacles 42373, 42374, 42452, 42453, 42617, 60487, 60573, 62137, 62187	X	X
				Red						520212-2			
			V0	Natural						520212-3			
			V2	Natural	.170 4.32	1.405 35.69	.845 21.46	.317 8.05	.875 22.23	360010-1			
			V0	Natural	.170 4.32	1.405 35.69	.845 21.46	.317 8.05	.875 22.23	360010-2			

[1] Flammability rating of plastic material.

Gas Valve Connectors



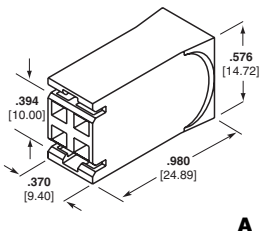
A



B

Style	Material	UL 94	Color	Part Number	Accepts Terminal		
A	Nylon	V2	Natural	521306-1	1217345-1	X	X
B	Nylon	V2	Natural	521307-1	1217345-1	X	X

Wax Motor Connector



A

Style	Material	UL 94	Color	Part Number	Accepts Terminal		
A	Nylon	V0	Natural	521766-1	250 Series FASTON and Positive Lock Mark III Terminals. Examples include 63306 and 63854.	X	X

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-208-420-8341

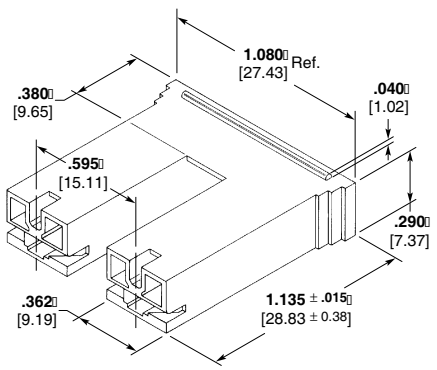
FASTON Housings (Continued)

250 Series Water Valve Coil Connector

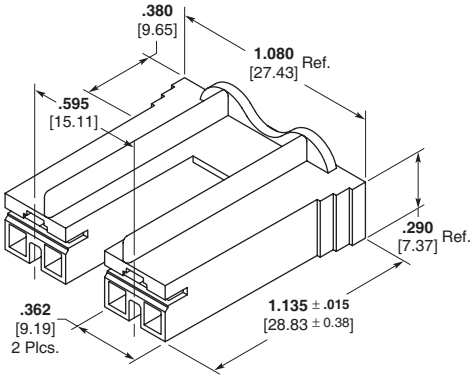
This connector is designed to mate with the Appliance Industry's Standard Water Valve Coil. The connector is suitable for such applications as washing machine mixing valves, dishwasher fill valves, and refrigerators with automatic ice makers. The housing has a unique internal cavity design to accommodate either two Positive Lock or two Budget and LIF FASTON receptacles.

Product Facts

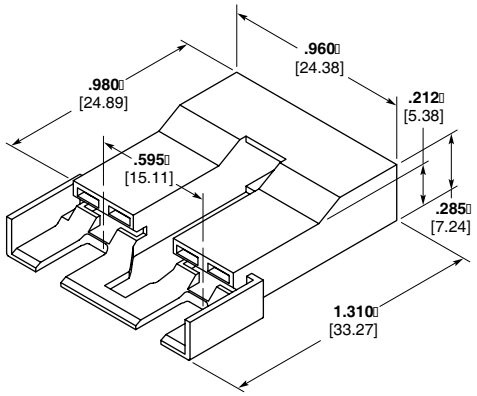
- **Helps prevent terminal back-out of housing through plastic retention feature**
- **Higher disengagement forces possible with Positive Lock or Low Insertion Force (LIF) FASTON receptacles (Hole required in mating tab)**
- **Recognized under the Component Program of Underwriters Laboratories, Inc., File Nos. E28476 and E13288.**



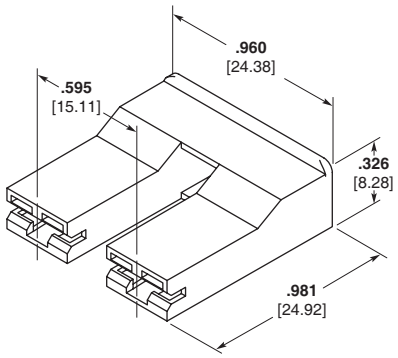
A



B



C



D

Style	Material	UL 94[2]	Color[4]	Part Number	Accepts		
A	Nylon	V2	Natural	520935-1	250 Series FASTON and Positive Lock Mark II Terminals. Examples Include 42400, 42510, 63306, 63097[1], 63119[1], 63239[1], and 170328[1]	X	X
			Red	520935-2			
			Black	520935-3[3]			
			Green	520935-4			
			Blue	520935-5			
			Yellow	520935-6			
			Brown	520935-7			
		V0	Natural	1-520935-1		X	X
			Red	1-520935-2			
			Blue	1-520935-5			
B	Nylon	V0	Natural	521229-1		X	—
			Red	521229-2			
		V2	Natural	521588-1		X	—
C	Nylon	V2	Natural	521253-1	250 Series FASTON and Positive Lock Mark III Terminals. Examples Include 63306 and 63854	X	X
			Red	521253-2		X	X
		V0	Red	1-521253-2		X	X
			Green	1-521253-3		X	X
			Blue	1-521253-7		X	X
D	Nylon	V2	Natural	521119-1		X	X
			Putty	521119-2			
			Blue	521119-4			

[1] For Positive Lock Mark II Receptacles, refer to pages 75-80.
[2] Flammability rating of plastic material.
[3] Weather resistant material.
[4] Additional colors available.

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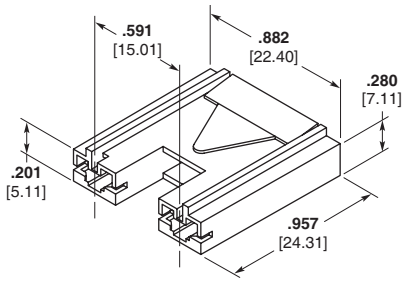
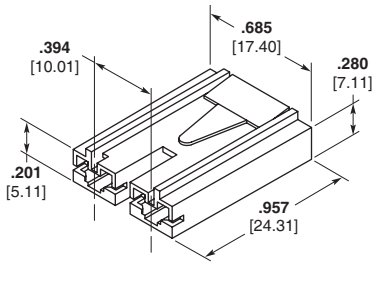
UK: 44-208-420-8341

FASTON Housings (Continued)

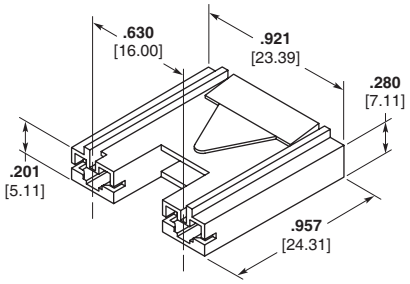
187 Series
Water Valve Coil Connector



A
15mm Centerline



B
10mm Centerline



C
16mm Centerline

Style	Material	UL 94	Color	Part Number	Accepts Terminals
A	Nylon	V0	Natural	176498-1	170324, 170325, 170326
			Black	176498-2	
			Yellow	176498-4	
			Blue	176498-6	
B	Nylon	V0	Natural	179720-1	170324, 170325, 170326
			Black	179720-2	
			Yellow	179720-4	
			Blue	179720-6	
			Red	179720-7	
C	Nylon	V0	Natural	353148-1	170324, 170325, 170326
			Yellow	353148-4	
			Green	353148-5	
			Blue	353148-6	

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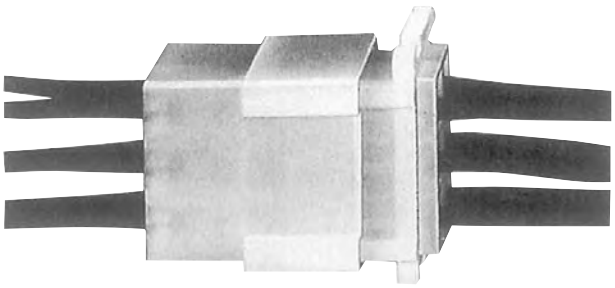
FASTIN-FASTON Product Line

FASTIN-FASTON Connectors

These are the multiple-connector version of the basic FASTON Product Line. Primarily used as harness connectors, they make possible simultaneous and quick attachment of up to eight separate circuits with a maximum of 19 leads. Some housings can be panel mounted or left free-hanging and is ideally suited for such applications as electric ranges, washers, dryers and other appliances and automotive wiring. Receptacles and tabs, with the exception of small locking lances to help retention in housing, are similar to those in the FASTON Product Line. FASTIN-FASTON connectors are CSA approved and recognized under the component program of Underwriters Laboratories Inc.

Notes: Temperature range of housing is rated at up to 125°C to permit use of assembly in areas of relatively high temperatures. Circuits are identified by numbered points on both male and female housings.



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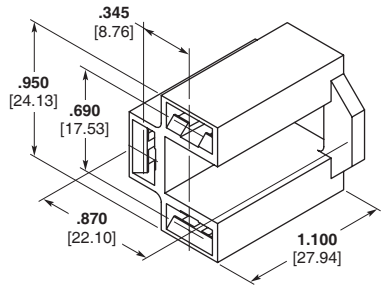
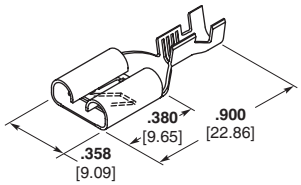
FASTIN-FASTON Product Line (Continued)

312 Series
Housing



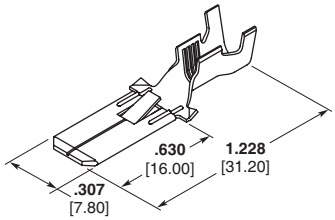
Material	UL 94	Color	Part Number
Nylon	V2	Black	480100-1

312 Series
Receptacles
Fits Tab — .032 [0.81] Thick



Wire Range AWG	Insulation Diameter	Material and Finish	Terminal Part Number
20-16	**.090-.130** 2.29-3.30	Brass	160557-1
18-14	**.083-.122** 2.11-3.10	Tin-Plated Brass	160863-4
16-12	**.160** 4.06 Max.	Tin-Plated Brass	160251-2

312 Series
Tab
Tab Thickness — .032 [0.81] Thick



Wire Range AWG	Insulation Diameter	Material and Finish	Terminal Part Number
12-10	**.149-.193** 3.78-4.90	Brass	170105-1

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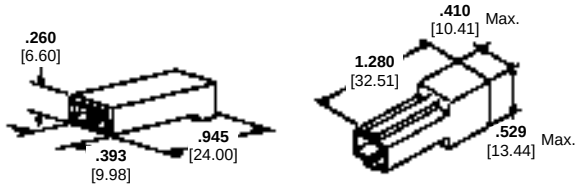
FASTIN-FASTON Product Line (Continued)

250 Series

Single Circuit Connectors (Housings)



Receptacle Housing **Tab Housing**

Material	UL 94[1]	Color	Part Numbers			
			Receptacle	Tab		
Nylon	V2	Natural	480054-3	480053-3	X	X
	V2	Black	480054-4	480053-4	X	X
	V2	Red	480054-5	480053-5	X	X
	V0	Natural	521290-1	521289-1	X	X

[1] Flammability rating.

250 Series

Receptacles with Mating Dimple (For use with single circuit connectors)

Fits Tab — .032 [0.81]

Stock Thickness — .016 [0.41]

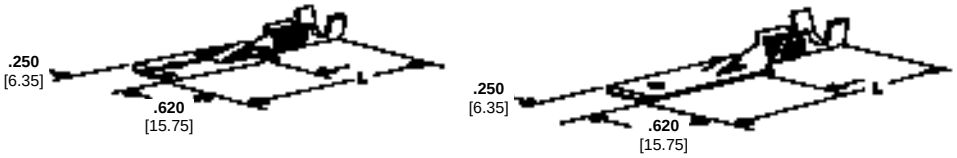
Wire Range AWG	Insulation Diameter	Material and Finish	Terminal Part Number			Quick-Change Applicator No.[2]
18-14	**.100-.170** 2.54-4.32	Brass	42281-1	X	X	687940-2
		Tin-Plated Brass	42281-2	X	X	687940-2
		Brass	60634-1[1]	X	X	687940-2
16-12 (2) 16	**.160-.210** 4.06-5.33 (2) **.130** Max. 3.30	Brass	60249-1	X	X	466057-2
		Tin-Plated Brass	60249-2	X	X	466057-2
11-10	**.157-.205** 3.99-5.21	Brass	160914-1	—	—	—
		Tin-Plated Brass	160914-2	—	—	—

[1] No front slot.
[2] Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.
For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

250 Series

Tabs (For use with single or multiple circuit connectors)

Stock Thickness — .015 [0.38]



A **B**

Wire Range AWG	Style	Tab Thk.	Insulation Diameter	Dim. L	Material and Finish	Terminal Part No.			Quick-Change Applicator No.[2]
22-18	A	**.032** 0.81	**.085-.125** 2.16-3.18	**1.105** 28.07	Brass	62553-1	X	X	687982-2
					Tin-Plated Brass	62553-3	X	X	687982-2
18-14	A	**.032** 0.81	**.100-.170** 2.54-4.32	**1.105** 28.07	Brass	42460-1	X	X	687839-2
					Tin-Plated Brass	42460-2	X	X	687839-2
	B	**.016** 0.41	**.120-.145** 3.05-3.68	**1.100** 27.94	Tin-Plated Brass	42580-2[1]	X	X	687839-2
14-10	A	**.032** 0.81	**.120-.170** 3.05-4.32	**1.105** 28.07	Tin-Plated Brass	60701-1	X	X	466092-2

[1] Used for back-to-back with a combined thickness of .032 [0.81].
[2] Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.
For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

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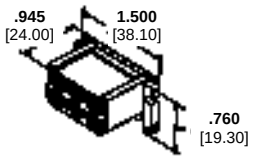
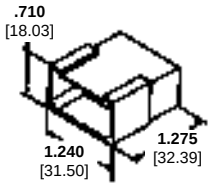
FASTIN-FASTON Product Line (Continued)

250 Series
6 Circuit Connectors (Housings)



Receptacle Housing



Tab Housing

Material	UL 94[1]	Color	Part Numbers			
			Receptacle	Tab		
Nylon	V2	Natural	480003-5	480004-5	X	X
		Black	1-480281-0[2]	1-480282-0	X	X

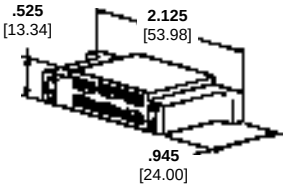
[1] Flammability rating.
[2] No mounting ears.

250 Series
Receptacles without Mating Dimple (For use with multiple circuit connectors)
Fits Tab — .032 [0.81]
Stock Thickness — .012 [0.30]

Wire Range AWG	Insulation Diameter	Material and Finish	Terminal Part Number			Quick-Change Applicator No.[1]
22-18	**.085-.125** 2.16-3.18	Tin-Plated Brass	60295-2	X	X	687981-2
	.060-.100 1.52-2.54	Tin-Plated Brass	60413-1	X	X	687979-3
18-14	**.100-.170** 2.54-4.32	Brass	42100-1	X	X	687932-2
		Tin-Plated Brass	42100-2	X	X	687932-2
16-12 or (2) 16	**.160-.210** 4.06-5.33 or (2) **.130** 3.30 Max.	Tin-Plated Brass	60253-2	X	X	466058-2
12-10	**.134-.200** 3.40-5.08	Brass	180351-1	—	—	—
		Pre-Tin-Plated Brass	180351-2	—	—	—

[1] Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.
For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

250 Series
8 Circuit Connectors (Housings)



Mating Face

8 Circuit Connectors (Receptacle Housing)

Material	UL 94[1]	Color	Housing Part Number		
Nylon	V2	Natural	480173-1 520965-1[2]	X	X

[1] Flammability rating of plastic material.
[2] All circuits accept receptacles without locking dimple.

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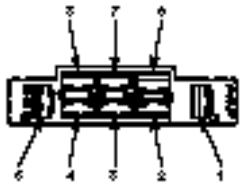
FASTIN-FASTON Product Line (Continued)

250 Series

8 Circuit Connectors (Housings) (Continued)

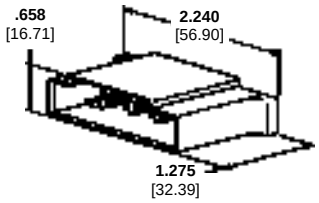


Lead End

Proper Terminal Placement in Receptacle Housing

Wire Range AWG	Circuits	Locking Dimple	Insulation Range	Terminal Part Number[1]	UL	CSA
22-18	1, 2, 3, 4, 7 & 8	No	**.085-.125** 2.16-3.18	60295	X	X
			.060-.100 1.52-2.54	60413	X	X
18-14	1, 2, 3, 4, 7 & 8	No	**.100-.170** 2.54-4.32	42100	X	X
	5 & 6	Yes	**.100-.170** 2.54-4.32	42281[2]	X	X
16-12 or (2) 16	1, 2, 3, 4, 7 & 8	No	**.160-.210** 4.06-5.33 or (2) **.130** 3.30 Max.	60253	X	X
	5 & 6	Yes	**.160-.210** 4.06-5.33 or (2) **.130** 3.30 Max.	60249[2]	X	X

[1] For dimensions and plating, refer to Terminal Specifications.
[2] Power receptacle with locking dimple.

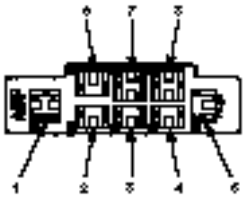


Mating Face

8 Circuit Connectors (Tab Housings)

Material	UL 94[1]	Color	Housing Part Number	UL	CSA
Nylon	V2	Natural	480174-1	X	X
Nylon	V2	Black	480174-7	—	—

[1] Flammability rating.



Lead End (Back of Housing)

Proper Terminal Placement in Tab Housings

Wire Range AWG	Circuits	Insulation Range	Terminal Part Number[1]	UL	CSA
22-18	1 thru 8 (All)	**.085-.125** 2.16-3.18	62553[2]	X	X
18-14	1 thru 8 (All)	**.100-.170** 2.54-4.32	42460[2]	X	X
	1, 7 & 8	**.120-.145** 3.05-3.68	42580[2]	X	X
14-10	1 thru 8 (All)	**.120-.170** 3.05-4.32	60701[2]	X	X

[1] For dimensions and plating, refer to Terminal Specifications.
[2] Back-to-back.

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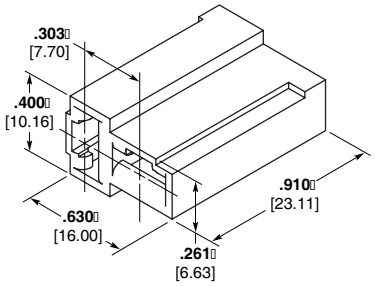
C. America: 57-1-254-4444

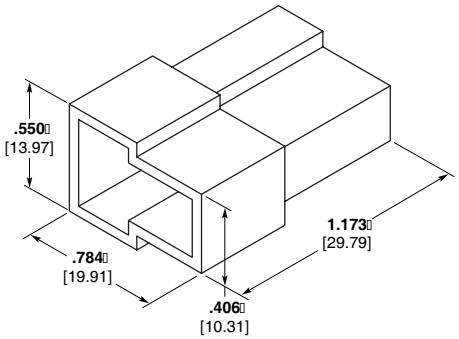
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-208-420-8341

FASTIN-FASTON Product Line (Continued)

250 Series
2 Circuit "T" Housing



Receptacle Housing

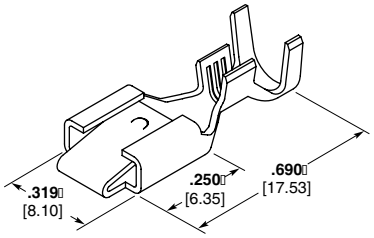


Tab Housing

Material	UL 94[1]	Color	Part Numbers			
			Receptacle	Tab		
Nylon	V2	Black	480115-3	—	—	—
			—	480116-3[2]	X	X

[1] Flammability rating.
[2] For use only with "Fish Hook" Tabs.

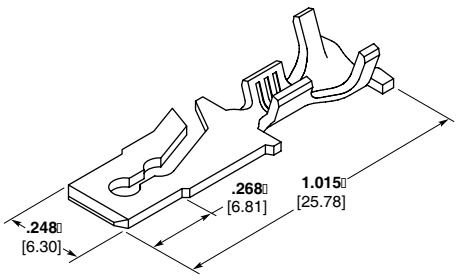
"Packard Style Receptacles"



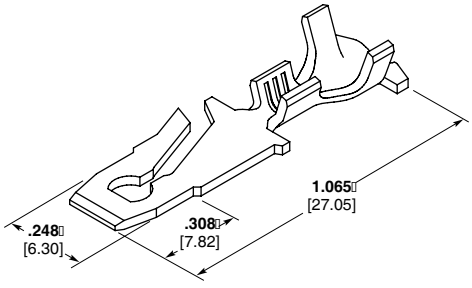
Wire Range AWG	Insulation Diameter	Material and Finish	Terminal Part Number			Applicator No.
18-14	.154 3.91 Max.	Brass	640417-1	—	—	466704-2
		Pre-Tin-Plated Brass	640417-2	—	—	466704-2
		Brass	640418-1[1]	—	—	466704-2
		Pre-Tin-Plated Brass	640418-2[1]	—	—	466704-2

[1] No Dimple.

250 Series
"Fish Hook" Tabs



A



B

Wire Range AWG	Style	Stock Thck.	Insulation Diameter	Material and Finish	Terminal Part Number			Applicator No.
18-14	A	.032 0.81	.100-.142 2.54-3.61	Brass	640416-1	—	—	466707-4
		.032 0.81	.110-.142 2.79-3.61	Tin-Plated Brass	640416-2	—	—	466707-4
16-14	B	.032 0.81	.090-.130 2.29-3.30	Tin-Plated Brass	60794-2	—	—	687888-6

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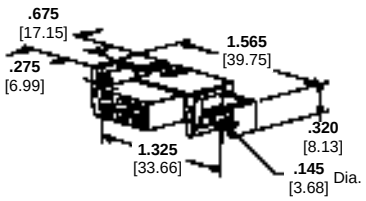
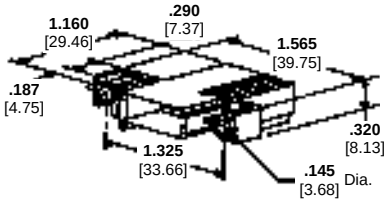
FASTIN-FASTON Product Line (Continued)

187 Series
Modular Connector Housings



Receptacle Housing



Tab Housing

Material	UL 94[1]	Color	Part Numbers			
			Receptacle	Tab		
Nylon	V2	Natural	1-480252-0	1-480251-0	X	X
			—	2-480251-0[2]	X	X

[1] Flammability rating.
[2] Special mounting mates with all receptacle housings listed above.

187 Series
Modular Connector Receptacles
Fits Tab — .016 [0.41]
Insulation Diameter — .090-.130 [2.29-3.30] or (2) .110 [2.79] Max.

Wire Range AWG	Stock Thickness	Material and Finish	Terminal Part No.			Quick-Change Applicator No. [1]
20-16 or (2) 20	**.012** 0.30	Pre-Tin Brass	60435-1	X	X	687993-2

[1] Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.
For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

187 Series
Modular Connector Tabs
Tab Thickness — .016 [0.41]
Insulation Diameter — .090–.130 [2.29-3.30] or (2) .110 [2.79] Max.

Wire Range AWG	Stock Thickness	Material and Finish	Terminal Part No.			Quick-Change Applicator No. [1]
20-16 or (2) 20	**.016** 0.41	Pre-Tin Brass	60434-1	X	X	687995-2

[1] Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.
For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

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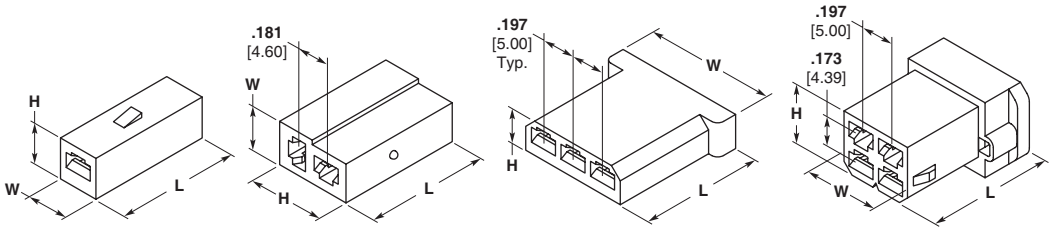
FASTIN-FASTON Product Line (Continued)

110 Series
Receptacle Housings

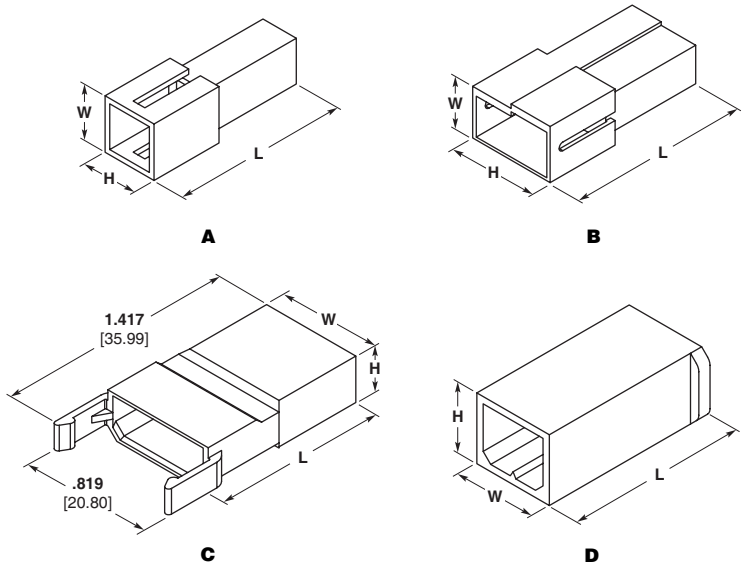


A B C D

Type	Number of Positions	Material	Color	Dimensions W	Dimensions H	Dimensions L	Part Number	UL	CSA
A	1	Nylon	Natural	**.236** 5.99	**.236** 5.99	**.710** 18.01	626062-0	—	—
B	2	Nylon	Natural	**.248** 6.30	**.442** 11.23	**.710** 18.01	626064-0	—	—
C	2	Nylon	Natural	**.551** 14.00	**.200** 5.00	**.710** 18.03	925014-0[1]	—	—
	3	Nylon	Natural	**.748** 19.00	**.200** 5.00	**.710** 18.03	925015-0	—	—
	4	Nylon	Natural	**.945** 24.00	**.200** 5.00	**.710** 18.03	925016-0[1]	—	—
D	4	Nylon	Natural	**.423** 10.74	**.344** 8.74	**.708** 17.98	626056-0	—	—

[1] Not shown.

110 Series
Tab Housings



A B C D

Type	Number of Positions	Material	Color	Dimensions W	Dimensions H	Dimensions L	Part Number	UL	CSA
A	1	Nylon	Natural	**.327** 8.31	**.327** 8.31	**1.00** 25.43	626063-0	—	—
B	2	Nylon	Natural	**.264** 6.71	**.516** 13.11	**1.00** 25.43	626065-0	—	—
C	3	Nylon	Natural	**.629** 15.98	**.284** 7.21	**1.08** 27.48	925475-1	—	—
	3	Nylon	Black	**.629** 15.98	**.284** 7.21	**1.08** 27.48	925475-2	—	—
D	4	Nylon	Natural	**.512** 13.00	**.433** 11.00	**1.08** 27.33	626057-0	—	—

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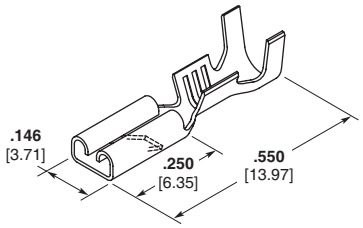
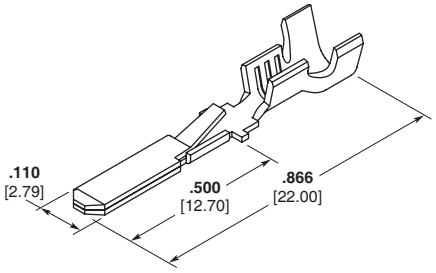
FASTIN-FASTON Product Line (Continued)

110 Series
Receptacles

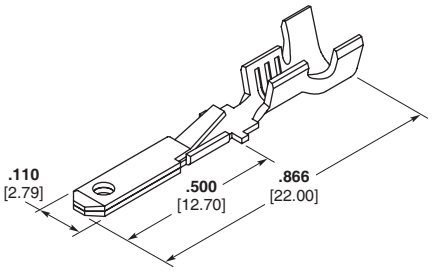


Wire Range AWG	Tab Fit	Insulation Diameter	Material and Finish	Terminal Part No.		
24-20	**.032** 0.81	**.050-.080** 1.27-2.03	Pre-Tin Brass	1217281-2	—	—
22-18	**.020** 0.51	**.080-.120** 2.03-3.05	Pre-Tin Brass	63241-3	—	—
20-16	**.032** 0.81	**.080-.120** 2.03-3.05	Pre-Tin Brass	62572-6	—	—
18-14	**.032** 0.81	**.060-.110** 1.52-2.79	Pre-Tin Brass	1217321-2	—	—

110 Series
Tabs



A



B

Wire Range AWG	Style	Tab Thk.	Insulation Diameter	Material and Finish	Terminal Part No.		
20-16	A	**.032** 0.81	**.090-.120** 2.30-3.05	Tin-Plated Brass	160743-4	X	X
	B	**.032** 0.81	**.090-.120** 2.30-3.05	Tin-Plated Brass	160762-4	—	—

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FASTON Terminals Strip/Loose Piece Cross Reference

Faston terminals have been designed for speed of application using selected terminating machines; however, hand tools are available for those terminals listed.

FASTON Receptacles — Loose Piece

RECEPTACLES 250 Series

Wire Range AWG	Strip Part No.	Loose Piece Part No.	Description	Hand Tool Part No.
22-18	41772	60878-2	Premier Receptacle	91514-1
	61988-2	62274-1	Receptacle/Tab Combination	91514-1
18-14	41274	41729	Premier Receptacle	90165-1
	41774	42025-1	Hermetic Receptacle	90165-1
	42219-1	60705-1	Premier Receptacle	90165-1
	61944-1	60279-1	Piggyback Receptacle	189508-1
	61944-2	60279-2	Piggyback Receptacle	189508-1
	42100-1	42238-1	FASTIN-FASTON	720725-1 or 91557-1
	42100-2	42238-2	FASTIN-FASTON	—
	42281-1	42282-1	FASTIN-FASTON	90165-1
	42281-2	42282-2	FASTIN-FASTON	—
	60290-2	60419-2	"F" Crimp Flag	90045
18-12	41532	41898	Tab-Lok Flag	47417
	42742-1	60102-1	Tab-Lok Flag	47417
16-12	41728	42021	Premier Receptacle	47094
14-10	41450	61227-1	Premier Receptacle	90120
	62049-2	62090-1	Piggyback	—
12-10	60851-1	60851-3	Hermetic Flag	—

Receptacles 187 Series

Wire Range AWG	Strip Part No.	Loose Piece Part No.	Description	Hand Tool Part No.
20-16	42452-1	42566-1	Premier Receptacle	91509-1
	42452-2	42566-2	Premier Receptacle	91509-1
	42373-2	42638-2	Premier (No Insulation)	—
	60435-1	60520-1	FASTIN-FASTON	90088
	62026-1	62228-1	Piggyback Receptacle	—

Receptacles 110 Series

Wire Range AWG	Strip Part No.	Loose Piece Part No.	Description	Hand Tool Part No.
22-18	42068-1	42470-1	Receptacle	91511-1
	62003-2	62112-2	Receptacle/Tab Combination	—
	60900-1	61454-1	Tab Receptacle	59528-1

250 Series Tabs

Wire Range AWG	Strip Part No.	Loose Piece Part No.	Description	Hand Tool Part No.
22-18	60294-1	61316-1	FASTIN-FASTON	91514-1
18-14	41412	41778	Crimp Type	—
	42460-2	42565-2	FASTIN-FASTON	90165-1
N/A	63066-1	63067-1	P.C.B. Tabs	—

110 Series Tabs

Wire Range AWG	Strip Part No.	Loose Piece Part No.	Description	Hand Tool Part No.
N/A	62395-1	62836-1	P.C.B. Tabs	—

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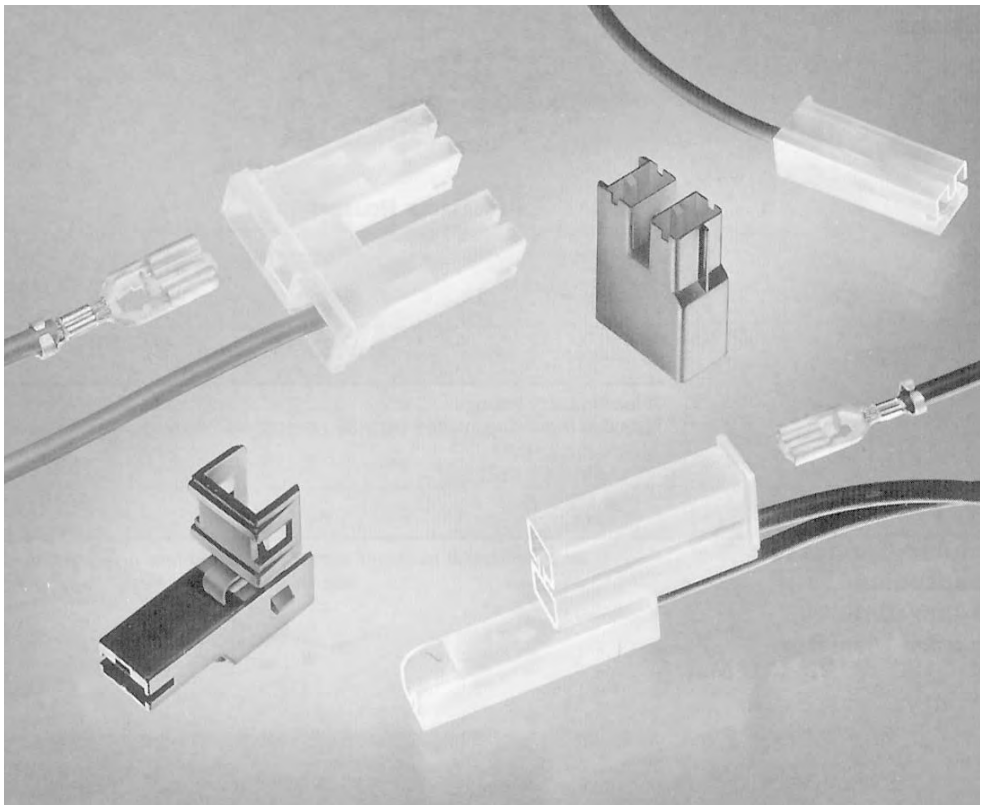
Positive Lock Receptacles

Product Facts

- **Reduced insertion force**
- **Locks onto tabs containing holes**
- **Housing insulates and serves as a removal tool**
- **"Snap" action tells assembler receptacle is mated properly**
- **Terminated by automatic or semi-automatic equipment**
- **Single and multiple circuit housings available**
- **Recognized under the Component Program of Underwriters Laboratories Inc., File Nos. E66717 and E28476**
- **Certified by Canadian Standards Association File No. LR7189A**



Positive Lock receptacles are specifically designed to provide ease of assembly and secure retention to mating tabs. These unique features are attainable by the reduced insertion force of the product and the locking dimple. The receptacle locks onto mating tabs containing holes and is removable only by deflecting an integrally designed depressor prior to withdrawal. The depressor can be deflected manually by thumb pressure, or automatically by a cam inside a specially designed nylon housing. If the housing is employed, removal of the terminal from the tab is performed by simply applying withdrawal force to the housing. In addition to providing a means of disconnecting the terminal, the housing performs its traditional insulating function.

Aside from reduced insertion forces, Positive Lock receptacles give the assembler a definite mechanical "snap" when the terminal is correctly seated over the mating tab. This facilitates correct assembly in hard-to-reach areas such as under dashboards, recessed switch tabs, etc.

Safety is enhanced by the locking capability of the product. Unless the depressor is deliberately deflected, either manually or by withdrawal force applied directly to the optional housing, a terminal will not easily come off of the tab. Thus, the potential of exposed live parts or disruption of critical circuitry due to improperly seated or accidentally removed terminals is greatly reduced.

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Positive Lock Receptacles (Continued)

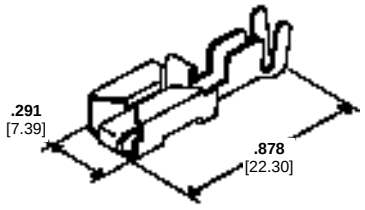
Mark I

250 Series Receptacles

Stock Thickness — .016 [0.41]

Fits Tab — .032 [0.81]

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



Wire Range AWG	Insulation Diameter	Material and Finish	Part Numbers				
			Receptacle			Quick Change Applicator No.[2]	Hand Tool
20-16	**.090-.130** 2.29-3.30	Brass/Pre-Tin	1-160759-1	X	X	567181-2	654174-1
18-14	**.135-.195** 3.43-4.95	Brass/Tin	63812-1[1]	X	X	680140-2	—
	.095-.155 2.41-3.94	Brass/Tin	154718-3	X	—	466542-3	525651
14-11	**.140-.170** 3.56-4.32	Brass/Tin	154717-3	X	—	466883-2	525651
12-10	**.135-.200** 3.43-5.08	Brass/Pre-Tin	790319-3	—	—	567417-2	—

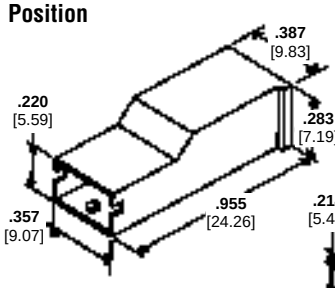
[1] "A" Style Housing only.

[2] Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5. For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

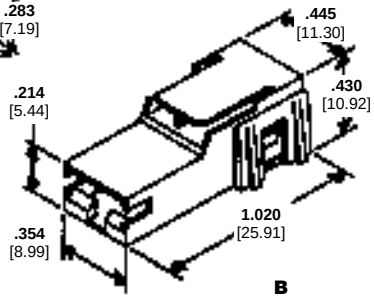
Receptacle Housings

Material — 94 V-2, 6/6 Nylon

1 Position



A

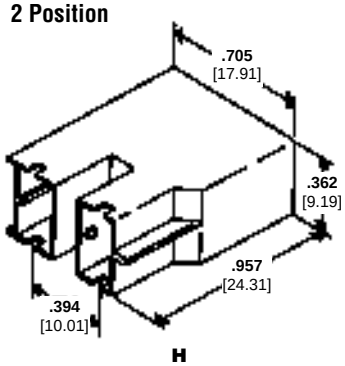


B

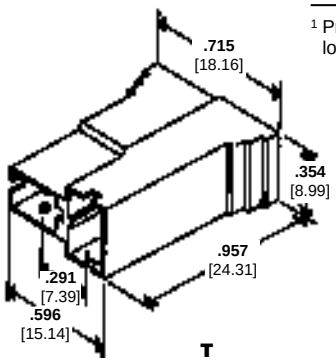
Style	Color	Part No.
A	Black	154719-0
	Natural	154719-1
B	Black	520961-1[1]
H	Black	926521-2
T	Black	926522-1
	Natural	926522-2

[1] Press-to-release with secondary lock.

2 Position



H



T

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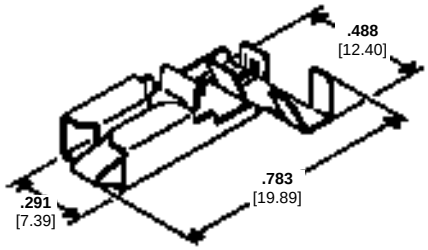
Positive Lock Receptacles (Continued)

Mark I

250 Series Flag Receptacle

Stock Thickness — .016 [0.41]

Fits Tab — .032 [0.81]



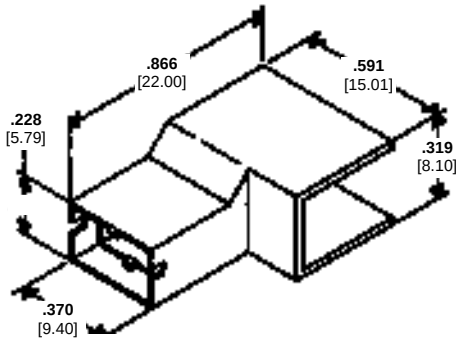
Wire Range AWG	Insulation Diameter	Material and Finish	Part Numbers	
			Receptacle	Quick Change Applicator No. [1]
20-16	.087-.130 2.21-3.30	Brass/Pre-Tin	926820-4	680436-2

[1] Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.
For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

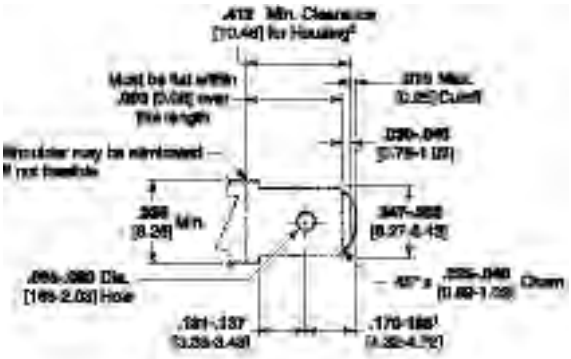
Mark I

250 Series Receptacle Housings

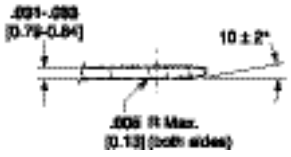
Material — 94 V-2, 6/6 Nylon



Color	Part Number
Black	926291-1



[1] Use when shoulder is eliminated.
[2] See individual housing.



Recommended Mating Tab Dimensions

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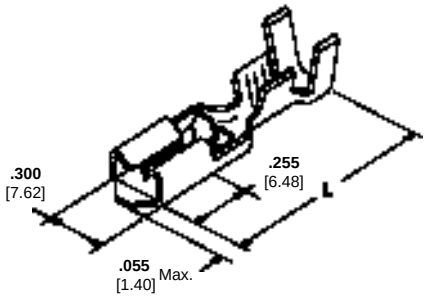
UK: 44-208-420-8341

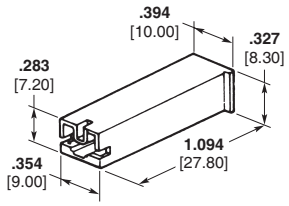
Positive Lock Receptacles (Continued)

Mark II
250 Series
Straight Receptacles

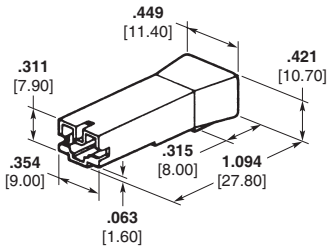


Wire Range AWG	Tab Thickness	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)			Terminal Part No.
22-18	.032 0.81	.060-.100 1.52-2.54	Brass, Tin Plated	.016 0.41	.886 22.50	X	X	63119-1
	.032 0.81	.059-.122 1.50-3.10	Pre-Tin Brass	.016 0.41	.976 24.80	X	X	170327-1
18-14	.032 0.81	.090-.155 2.29-3.94	Brass	.016 0.41	.886 22.50	X	X	63097-2
	.032 0.81	.090-.155 2.29-3.94	Brass, Tin Plated	.016 0.41	.886 22.50	X	X	63097-1
	.025 0.64	.090-.155 2.29-3.94	Brass, Tin Plated	.016 0.41	.886 22.50	X	X	63809-1
	.020 0.51	.090-.155 2.29-3.94	Brass, Tin Plated	.016 0.41	.886 22.50	X	X	63442-1
	.032 0.81	.090-.135 2.29-3.43	Pre-Tin Brass	.016 0.41	1.015 25.80	X	X	170328-1
15-10	.032 0.81	.110-.200 2.79-5.08	Pre-Tin Brass	.016 0.41	1.015 25.80	X	X	170329-1
12-10	.032 0.81	.150-.200 3.81-5.08	Brass, Tin Plated	.018 0.46	.913 23.20	X	X	63239-1

Mark II
250 Series
Receptacle Housings
1 Circuit



A



B

Style	Material	UL 94	Color			Part Number
A	6/6 Nylon	V2	Natural	—	—	172076-1
			Black	—	—	172076-2
			Yellow	—	—	172076-4
			Green	—	—	172076-5
			Blue	—	—	172076-6
			Red	—	—	172076-7
		V0	Natural	—	—	2-172076-1
			Black	—	—	2-172076-2
			Yellow	—	—	2-172076-4
			Green	—	—	2-172076-5
			Blue	—	—	2-172076-6
			Red	—	—	2-172076-7
B	6/6 Nylon	V0	Natural	X	X	177627-1
			Yellow	X	X	177627-4
			Green	—	—	177627-5
			Blue	—	—	177627-6
			Red	—	—	177627-7
			Black	—	—	177627-9

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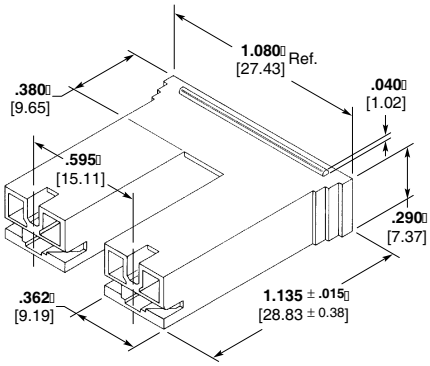
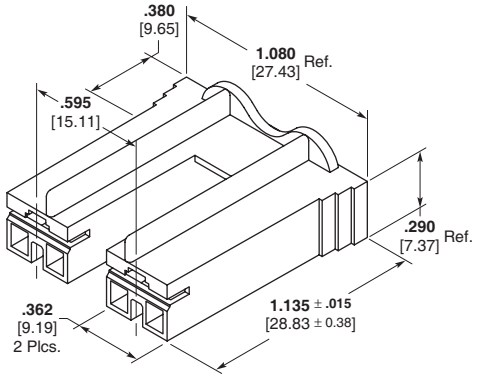
Positive Lock Receptacles (Continued)

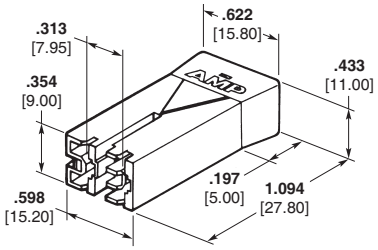
Mark II
250 Series
Receptacle Housings
2 Circuit



A



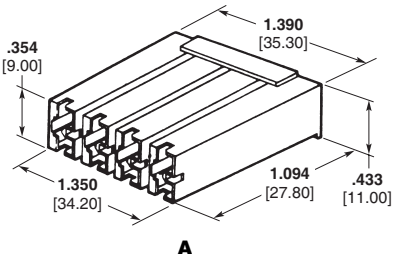
B



C

Style	Material	UL 94	Color	UL	CSA	Part Number
A	6/6 Nylon	V2	Natural	X	X	520935-1
			Red	X	X	520935-2
			Black	—	—	520935-3
			Green	—	—	520935-4
			Blue	—	—	520935-5
			Yellow	—	—	520935-6
			Brown	—	—	520935-7
		V0	Natural	—	—	1-520935-1
			Red	—	—	1-520935-2
			Blue	—	—	1-520935-5
B	6/6 Nylon	V0	Natural	X	X	521229-1
			Red	—	—	521229-2
		V2	Natural	—	—	521588-1
C	6/6 Nylon	V0	Natural	—	—	178833-1
			Yellow	—	—	178833-4
			Blue	—	—	178833-6
			Red	—	—	178833-7

Mark II
250 Series
Receptacle Housings
4 Circuit



A

Style	Material	UL 94	Color	UL	CSA	Part Number
A	6/6 Nylon	V2	Natural	X	X	174429-1

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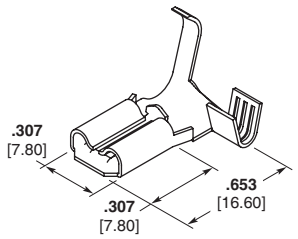
Positive Lock Receptacles (Continued)

Mark II

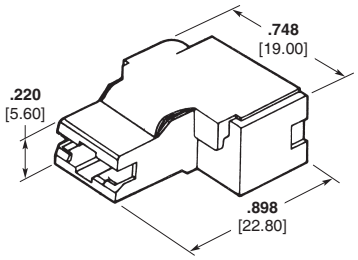
250 Series
Flag Receptacles
Stock Thickness — .016 [0.41]
Fits Tab — .032 [0.81]



Wire Range AWG	Insulation Diameter	Material and Finish	UL	CSA	Terminal Part No.
22-18	**0.59-.110** 1.50-2.80	Pre-Tin Brass	X	—	X	172761-1
18-14	**.110-.205** 2.80-5.20	Pre-Tin Brass	X	—	X	172763-1
14-10	**.110-.205** 2.80-5.20	Pre-Tin Brass	X	—	X	172765-1

Mark II

250 Series
Flag Style Receptacle Housing
1 Circuit



A

Style	Material	UL 94	Color	CSA	Part Number
A	6/6 Nylon	V2	Natural	X	X	172469-1
			Blue	X	X	172469-2
			Green	—	—	172469-4
			Red	—	—	172469-7
		V0	Natural	—	—	1-172469-1
			Blue	—	—	1-172469-2
			Yellow	—	—	1-172469-3

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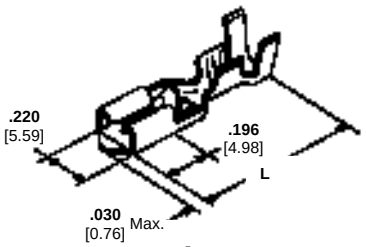
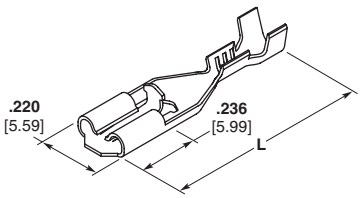
Positive Lock Receptacles (Continued)

Mark II
187 Series
Straight Receptacles



A

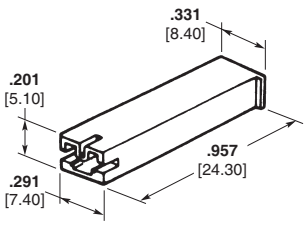


B

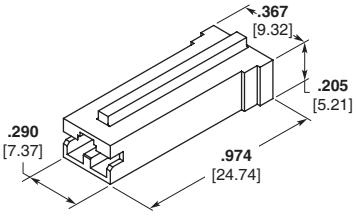
Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part No.
24-20	A	**.020** 0.51	**.060-.110** 1.52-2.79	Brass, Post Tin Plated	**.012** 0.30	**.755** 19.17	X	X	63196-1
	B	**.020** 0.51	**.060-.105** 1.52-2.67	Pre-Tin Brass	**.012** 0.30	**.850** 21.60	X	X	170324-1
	A	**.020** 0.51	**.060-.110** 1.52-2.79	Pre-Tin Brass	**.012** 0.30	**.755** 19.17	X	X	63407-2[1]
	B	**.020** 0.51	**.060-.105** 1.52-2.67	Phos. Bronze, Nickel Plated	**.012** 0.30	**.850** 21.60	X	X	170324-2
		.020 0.51	**.060-.105** 1.52-2.67	Pre-Tin Phos. Bronze	**.012** 0.30	**.850** 21.60	—	—	170324-5
20-16	B	**.020** 0.51	**.074-.134** 1.87-3.40	Pre-Tin Brass	**.012** 0.30	**.850** 21.60	X	X	170325-1
		.020 0.51	**.074-.134** 1.87-3.40	Pre-Tin Phos. Bronze	**.012** 0.30	**.850** 21.60	—	—	170325-3
	A	**.020** 0.51	**.090-.130** 2.29-3.30	Brass, Tin Plated	**.012** 0.30	**.755** 19.17	X	X	63195-1
		.020 0.51	**.090-.130** 2.29-3.30	Brass, Pre-Tin	**.012** 0.30	**.755** 19.17	X	X	63232-1[1]
		.032 0.81	**.060-.110** 1.52-2.79	Brass, Tin Plated	**.012** 0.30	**.740** 18.80	X	X	63498-1[2]
		.032 0.81	**.090-.130** 2.29-3.30	Brass, Tin Plated	**.012** 0.30	**.755** 19.17	X	X	63313-1[1]
18-14 (2) 18	B	**.020** 0.51	**.083-.142** 2.11-3.61 (2) **.216** 5.49	Brass, Pre-Tin	**.012** 0.30	**.850** 21.60	—	—	170326-1

[1] Low profile — not for use in housing.
[2] For use with housing 521125.

Mark II
187 Series
Receptacle Housings
1 Circuit



A — Use with (.187 x .020 [4.74 x 0.51])



B — Use with (.187 x .032 [4.75 x 0.81])

Style	Material	UL 94	Color	UL	CSA	Part Number
A	6/6 Nylon	V2	Natural	X	X	172074-1
			Black	—	—	172074-2
			Yellow	—	—	172074-4
			Green	—	—	172074-5
			Blue	—	—	172074-6
			Red	—	—	172074-7
		V0	Natural	X	X	173974-1
			Black	—	—	173974-2
			Yellow	—	—	173974-4
			Green	—	—	173974-5
			Blue	—	—	173974-6
			Red	—	—	173974-7
B	6/6 Nylon	V2	Natural	—	—	521125-1

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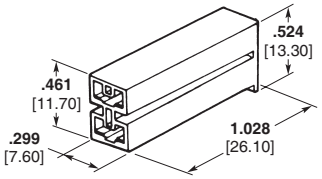
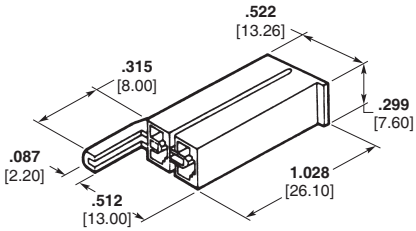
Positive Lock Receptacles (Continued)

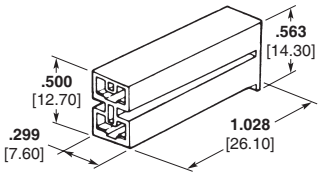
Mark II
187 Series
Receptacle Housings
2 Circuit



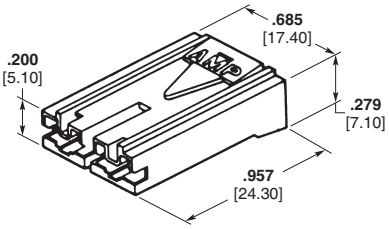
A — 6 mm Pitch



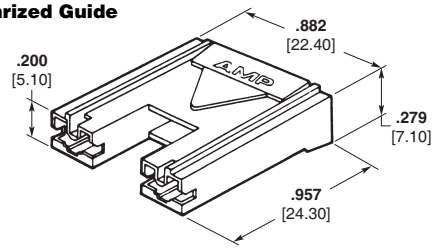
B — 6 mm Pitch, with Polarized Guide



C — 7 mm Pitch



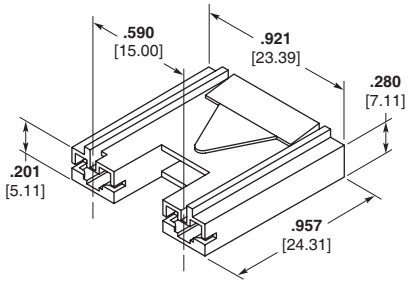
D — 10 mm Pitch



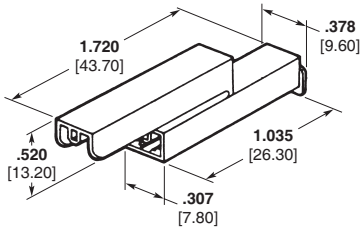
E — 15 mm Pitch, for Electro-

Style	Material	UL 94	Color	UL	CSA	Part Number
A	6/6 Nylon	V2	Natural	—	—	172210-1
			Black	—	—	172210-2
			Yellow	—	—	172210-4
			Blue	—	—	172210-6
		V0	Natural	X	X	1-172210-1
			Black	X	X	1-172210-2
			Yellow	—	—	1-172210-4
			Green	—	—	1-172210-5
			Blue	—	—	1-172210-6
			Red	—	—	1-172210-7
B	6/6 Nylon	V2	Natural	X	X	174587-1
			Yellow	—	—	174587-4
		V0	Natural	—	—	1-174587-1
			Yellow	—	—	1-174587-4
			Green	—	—	1-174587-5
			Blue	—	—	1-174587-6
			Red	—	—	1-174587-7

Style	Material	UL 94	Color	UL	CSA	Part Number
C	6/6 Nylon	V2	Natural	X	X	175578-1
			Black	—	—	175578-2
			Yellow	X	X	175578-4
			Blue	—	—	175578-6
		V0	Natural	—	—	1-175578-1
			Black	—	—	1-175578-2
			Yellow	—	—	1-175578-4
			Green	—	—	1-175578-5
			Blue	—	—	1-175578-6
			Red	—	—	1-175578-7
D	6/6 Nylon	V0	Natural	—	—	179720-1
			Black	—	—	179720-2
			Yellow	—	—	179720-4
			Blue	—	—	179720-6
			Red	—	—	179720-7
E	6/6 Nylon	V0	Natural	X	X	176498-1
			Black	—	—	176498-2
			Yellow	—	—	176498-4
			Blue	—	—	176498-6



F — 16 mm Pitch



G — For Microswitch

Style	Material	UL 94	Color	UL	CSA	Part Number
F	6/6 Nylon	V0	Natural	—	—	353148-1
			Yellow	—	—	353148-4
			Green	—	—	353148-5
			Blue	—	—	353148-6
G	6/6 Nylon	V2	Natural	X	X	174712-1
		V0	Natural	—	—	1-174712-1
			Yellow	—	—	1-174712-4
			Blue	—	—	1-174712-6
			Red	—	—	1-174712-7

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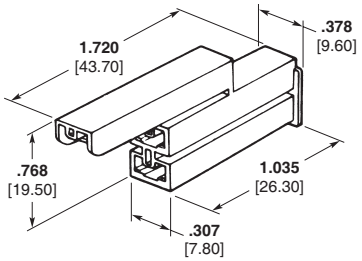
Positive Lock Receptacles (Continued)

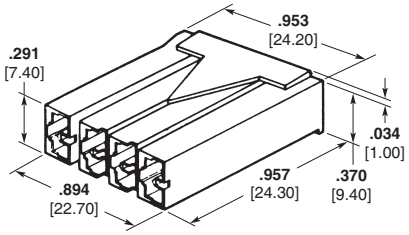
Mark II

187 Series
Receptacle Housings

3 Circuit and
4 Circuit



A — 3 Circuit
For Micro-Switch



B — 4 Circuit
For Timer

Style	Material	UL 94	Color			Part Number
A	6/6 Nylon	V2	Natural	X	X	172075-1
			Yellow	X	X	172075-4
			Blue	—	—	172075-6
		V0	Natural	—	—	1-172075-1
			Yellow	—	—	1-172075-4
B	6/6 Nylon	V0	Natural	X	X	174513-1

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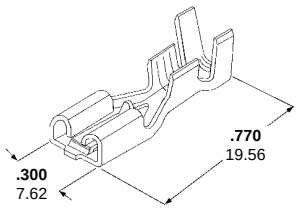
UK: 44-208-420-8341

Positive Lock Receptacles (Continued)

Mark III
250 Series Receptacles

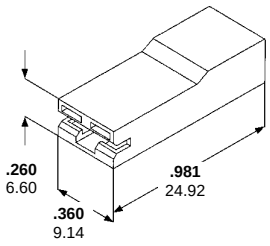
Stock Thickness — .016
Accepts .032 Tab



Wire Range AWG	Insulation Diameter	Material and Finish	UL	CSA	Part Number: Receptacles	Part Number: Quick Change Applicator No.[1]
22-18	**.060-.110** 1.52-2.79	Brass	X	X	63933-1	680161-2
		Brass/Tin	X	X	63933-2	680161-2
18-14	**.090-.155** 2.28-3.93	Brass	X	X	63854-1	680411-2
		Brass/Tin	X	X	63854-2	680411-2
16-12 or (2) 18 or (2) 16 or (1) 18 and (1) 16	**.120-.170** 3.04-4.31	Brass	X	X	1217092-1	680646-2
		Brass/Tin	X	X	1217092-2	680646-2

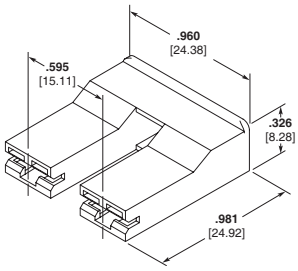
1. Quick-Change applicator Part No. with -1 is for a "T" terminating unit used in automatic machines; -2 is for a "K" AMP-O-LECTRIC bench machine

Mark III
Receptacle Housings



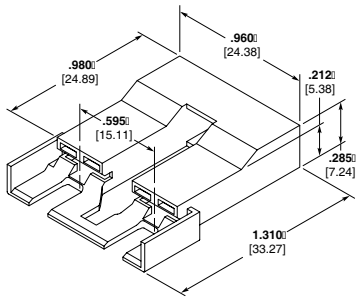
One Circuit Housing

A



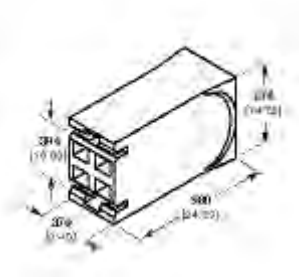
Two Circuit Water Valve

C



Two Circuit Water Valve Housing with Latch

D



Two Circuit Wax Motor

B

Style	Material	UL 94	Color	Part Number	Accepts Terminal	UL	CSA
A	Nylon	V2	Natural	521120-1	250 Series Positive Lock Mark III Terminals.	X	X

Style	Material	UL 94	Color	Part Number	Accepts Terminal	UL	CSA
B	Nylon	V0	Natural	521766-1	250 Series FASTON and Positive Lock Mark III Terminals. Examples include 63306 and 63854.	X	X

Style	Material	UL 94[1]	Color[2]	Part Number	Accepts	UL	CSA
D	Nylon	V2	Natural	521253-1	250 Series FASTON and Positive Lock Mark III Terminals. Examples Include 63306 and 63854	X	X
			Red	521253-2		X	X
		V0	Red	1-521253-2		X	X
			Green	1-521253-3		X	X
			Blue	1-521253-7		X	X
C	Nylon	V2	Natural	521119-1		X	X
			Putty	521119-2			
			Blue	521119-4			

[1] Weather resistant material. [2] Additional colors available.

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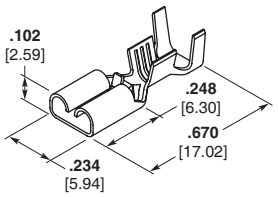
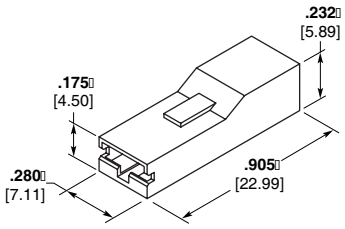
Positive Lock Receptacles (Continued)

Mark III
187 Series Receptacles

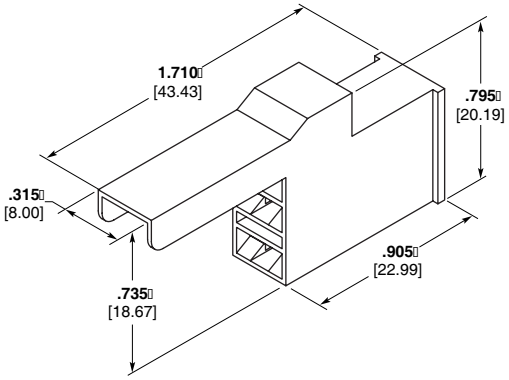


Wire Range AWG	Insulation Dia.	Mating Tab Thickness	Material and Finish	Terminal Part No.	UL	CSA	Applicator
22-18	**.090-.130** 2.29-3.30	**.020** 0.51	Tin-Plated Brass	1217113-2	—	—	680645-2
		.032 0.81	Tin-Plated Brass	1217097-2	—	—	680645-2
18-14	**.150-.200** 3.81-5.08	**.020** 0.51	Brass	1217114-1	—	—	680652-2
18-14 (2) 18	**.150-.200** 3.81-5.08	**.032** 0.81	Brass	1217096-1	X	X	680652-2

Mark III
187 Series Receptacle Housings



Part Number



Part Number 521198-1

Material	UL 94	Color	UL	CSA	Part Number
Nylon	V2	Natural	X	X	521187-1
Nylon	V2	Natural	X	—	521198-1

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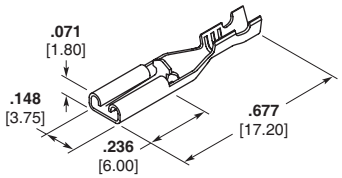
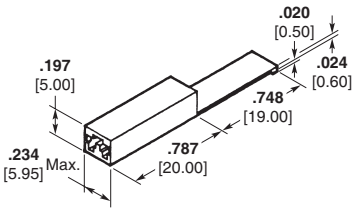
Positive Lock Receptacles (Continued)

110 Series
Straight Receptacles

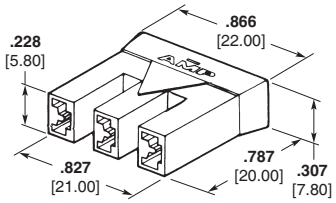


Wire Range AWG	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	UL	CSA	Terminal Part No.
24-20	.020 0.51	.040-.070 1.02-1.78	Pre-Tin Brass	.010 0.25	—	—	175411-1
20-16	.020 0.51	.080-.122 2.03-3.10	Pre-Tin Brass	.010 0.25	—	—	174777-1

Receptacle Housing
Applicable Contact
Part Number 175411, 174777



A — For 1 Circuit



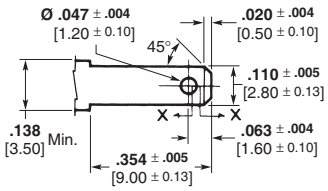
B — For 3 Circuit

Style	Material	UL 94	Color	UL	CSA	Part Number
A	6/6 Nylon	V2	Natural	X	X	174779-1
B	6/6 Nylon	V0	Natural	—	—	178832-1
			Yellow	—	—	178832-4
			Blue	—	—	178832-6
			Red	—	—	178832-7

Tab Dimension
For Signal Circuit

For 1 Circuit

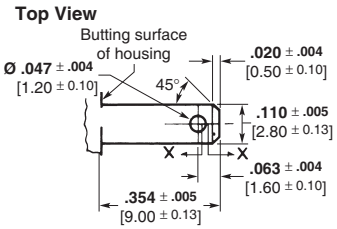
Top View



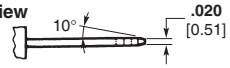
Side View

Type A
(When using tab shoulder for butting)

Top View

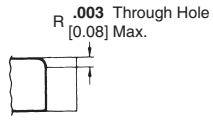


Side View

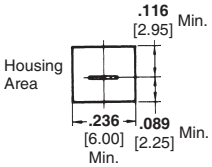


Type B
(When using resin, etc., for butting)

Sagging of the tab's hole must not exceed 0.08 mm.

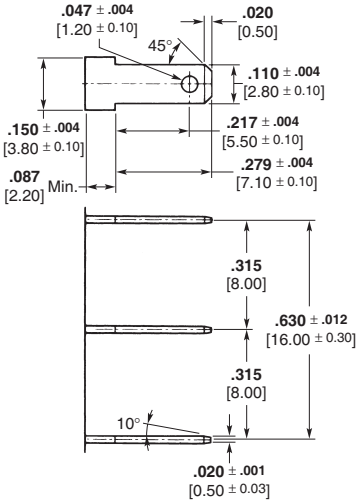


Section X-X



Housing Outline

For 3 Circuit



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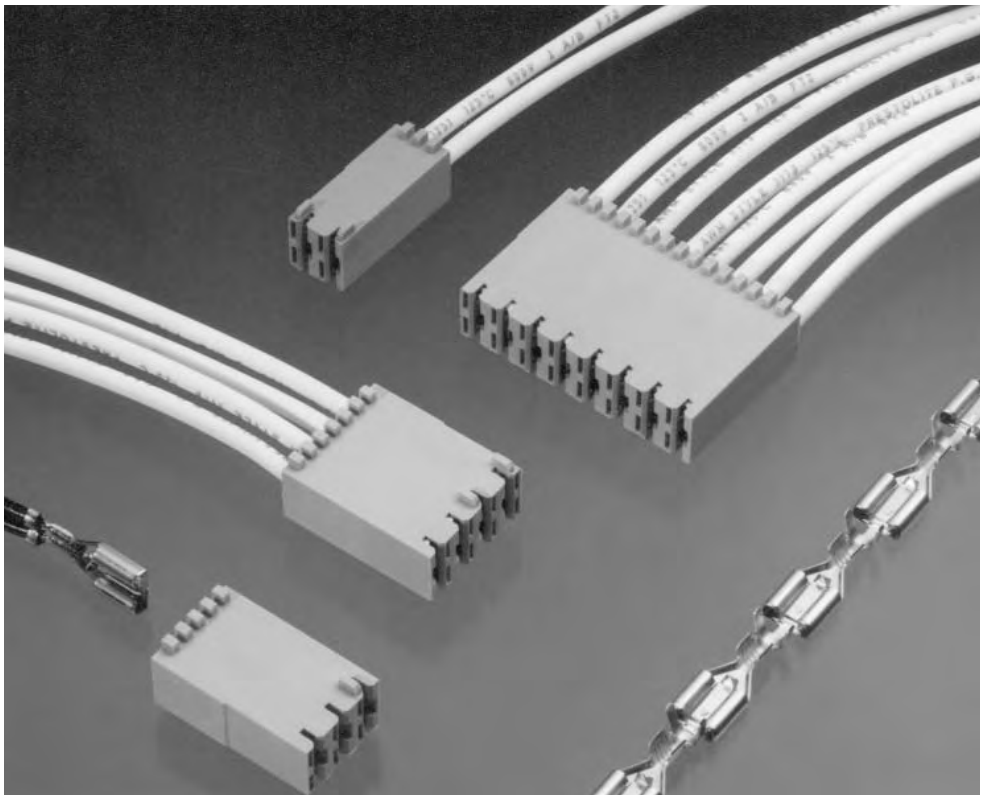
Positive Lock RAST 5 Connector System

Product Facts

- Mates with .250 x .032 [6.35 x 0.81] tabs built on 5 mm centerlines
- Keying and polarization features
- Utilizes AMP Positive Lock Mark III Receptacles
- Terminals available for 22-18 AWG, 18-14 AWG single wire or 18-16 AWG double wire applications
- Plain brass and tin-plated terminals available



The AMP Positive Lock RAST 5 Connector system has been designed to mate with a control, switch or printed circuit board that has .250 x .032 [6.35 x 0.81] thick tabs built on 5 mm centerlines. This system utilizes AMPs' popular Positive Lock Mark III Receptacles and a series of housings, to provide customers with a reliable solution to their wire management needs. This line of connectors offers keying and polarization features built into the housings that eliminate mismating and crossed wires. Two through eight circuit housings facilitate improved assembly operations and the Positive Lock Terminal guarantees excellent retention of the connector.

The acronym RAST 5 in the title is a reference to the European design standard for appliance wiring and component design, “Raster Anschluss Steck Technik 5 mm”. This standard outlines a system of keying, polarization and latching that is popular in Europe and other parts of the world. The AMP Positive Lock RAST 5 system has been designed to mate with many of the components built with a RAST 5 standard interface. This system is an excellent way for OEMs or their subcontractors to use existing lead makers and termination equipment to produce connectors that mate to controls with RAST interfaces.

While the origins of this product are in the appliance industry, many other industries are embracing this style of connector. Marine, exercise equipment and hand tool manufacturers are recent examples of customers beginning to use this system. Any application where .250 x .032 [6.35 x 0.81] tabs are built on 5 mm centerlines is a potential candidate for this popular connector system.

Positive Lock Receptacles

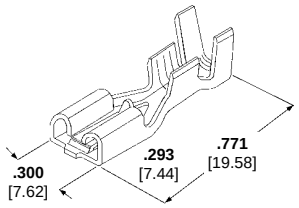
Positive Lock RAST 5 Connector System

See Tyco Electronics catalog 296599 for additional RAST products.

Positive Lock RAST 5 Connector System (Continued)

Mark III 250 Series Receptacles

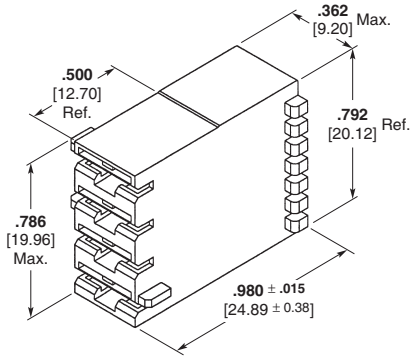
Stock Thickness — .013 [0.33]
Tab size — .032 [0.81]



Wire Range AWG	ID	Material and Finish	Part Number			Applicator No.
22-18	.060-.110 1.52-2.79	Brass	1217378-1	—	—	—
		Tin-Plated Brass	1217378-2	—	—	—
18-14	.090-.155 2.29-3.94	Brass	1217094-1	X	X	680653-2
(2) 18	.190 4.83 Max.	Tin-Plated Brass	1217094-2	X	X	680653-2
16-12	.120-.170 3.04-4.32	Brass	1217095-1	X	X	680654-2
(2) 18	(2) .120 3.05 Max.					
(2) 16	(2) .120 3.05 Max.	Tin-Plated Brass	1217095-2	X	X	680654-2

Receptacle Housings

Material — 94 V-0, 6/6 Nylon



Description			Part Number
2 Position	X	X	521204-1
3 Position	X	X	521205-1
4 Position	X	X	521206-1
5 Position	X	X	521207-1
6 Position	X	X	521208-1
7 Position	X	X	521209-1
8 Position	X	X	521210-1

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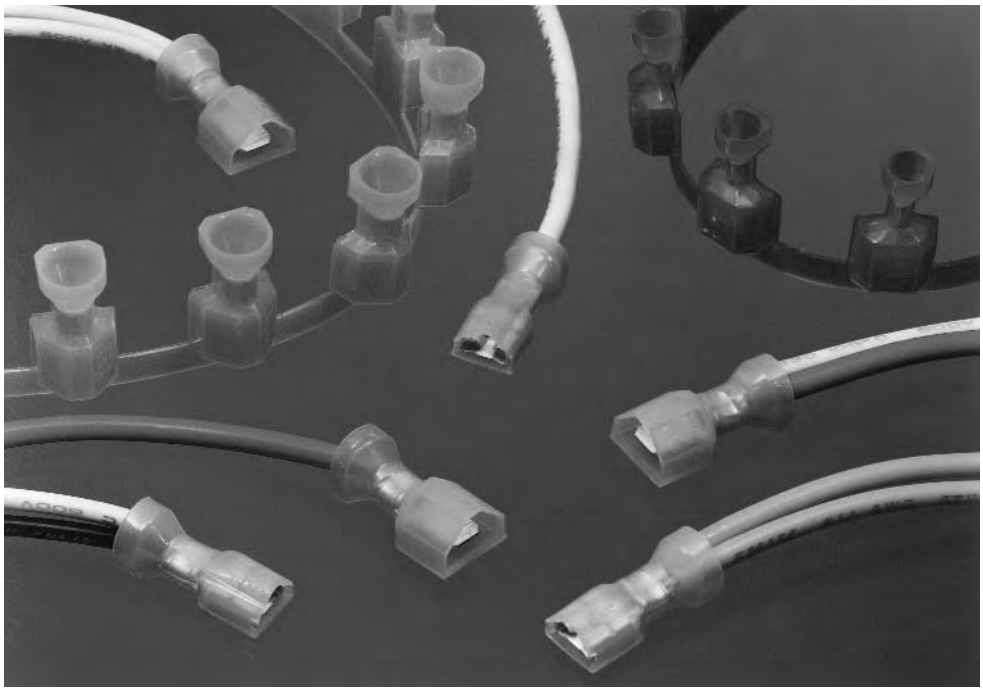
Ultra-Fast Fully Insulated FASTON Receptacles and Tabs



Product Facts

- **One-piece Fully Insulated Premier Line FASTON Receptacle crimp helps prevent shock and short hazards**
- **Designed for correct lead-in of tab**
- **Designed for full mating with a variety of tab styles including those with shoulders**
- **Funnel wire entry**
- **Wire Stop**
- **Visual inspection of crimp and wire brush**
- **Assemblies are color-coded by wire size**
- **Assemblies contain wire size and tab size designation**
- **Mating tab thickness marked on terminal and visible through housing (.110, .187 and .205 Series)**
- **Application tooling available to meet production requirements**
- **Tin-plated copper alloy terminals**
- **UL rated at + 105°C**
- **Terminates 26-10 AWG solid, fused and stranded wire (Flags terminate stranded wire only)**

Performance Capabilities

- **Meets UL-310 specification for quick connect terminals; UL listed under File No. E-66717**
- **Meets CSA C22.2, No. 153 specification for quick connect terminals; CSA Certified under File No. LR 7189**
- **VDE tested according to DIN VDE 0627/9.91, specification for connectors and plug and socket devices, VDE Reg. No. 9103**
- **600-volt application capability (1,000 volts for signs and fixtures)**

The Ultra-Fast Fully Insulated FASTON Receptacle and Tab offers the advantage of a completely protected terminal and a wire crimp with comparable electromechanical performance to open barrel "F" crimp FASTON Terminals. The "User-Friendly" design combines easy mating with rounded corners. The .187 and .250 series receptacles incorporate a two-stage roll configuration and a cantilever mounted dimple which provides easy insertion and multiple independent points of contact for reduced tab interface resistance.

Ultra-Fast Fully Insulated FASTON Receptacles, Flag Receptacles and Tabs preclude the need for costly electrical safety interlocks or special protective shields to help prevent shock hazards. In addition, electrical short circuits from exposed leads are eliminated, even in equipment requiring close contact spacing.

The Ultra-Fast FASTON Receptacle, Flag Receptacle and Tab are preinsulated assemblies featuring a housing molded from type 6/6 nylon material with a +130°C UL temperature rating.

The Ultra-Fast FASTON Receptacle housing completely encloses a tin-plated copper alloy Premier FASTON receptacle which has been stress-relieved for increased durability and resistance to abuse. The FASTON receptacle is recessed sufficiently within the housing to allow its use in 600-volt applications. The receptacle portion of the terminal is designed for positive mating with a variety of tabs, including those with shoulders. The housing has a slotted membrane which is displaced by two tab shoulders allowing proper engagement of tab and receptacle while maintaining the fully insulated characteristic.

Positive entry and lead-in of the tab is provided by the inner housing wall and the lead-in on the terminal rolls. This permits positive engagement, even in blind mating locations.

The Ultra-Fast FASTON Tab housing completely encloses a tin-plated copper alloy FASTON tab. The FASTON tab is recessed sufficiently within the housing to allow its use in 600-volt applications. The housing is designed to completely encapsulate the tab and receptacle when the two are mated.

Quality control is easily maintained. The nylon housing is translucent, allowing visual inspection of the termination. In addition, a crimp code on the platform hand tool is indented into the housing during the crimping operation which identifies that the proper crimp dies were used.

Depending on production requirements, Tyco Electronics provides a complete selection of terminating equipment from hand tools to automatic lead makers.

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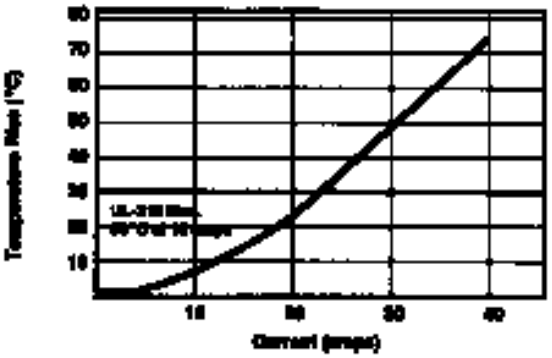
Ultra-Fast Fully Insulated FASTON Receptacles and Tabs (Continued)

Test Specifications

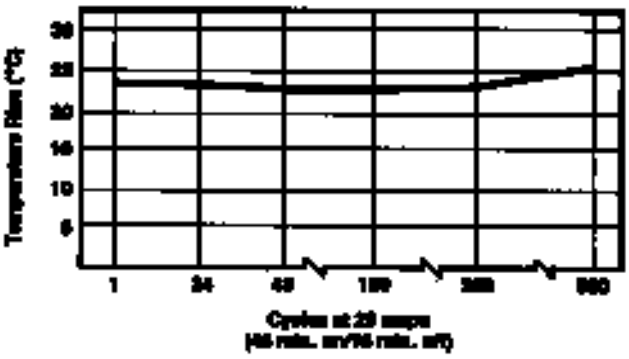
The following information and accompanying graphs are taken from AMP Product Qualification Testing of Ultra-Fast FASTON product. Tests were conducted on representative production samples, and all values shown are averages of group results. The values shown are typical results and may vary due to differences in processing, application and methods of testing.

Current vs. Temperature Rise (16 AWG)



The heat generated by the current passing through a termination is a primary limit to the load-carrying capabilities of the application. A low termination resistance will produce a lower temperature rise as current is applied. In order to evaluate this characteristic, UL has established current ratings for each wire size and set a maximum temperature rise to assure safe operation. For example, 16 AWG stranded wire has a UL 310 maximum temperature rise of 30°C above ambient temperature at the rated current of 10 amps. In the testing of the Ultra-Fast FASTON product applied to 16 AWG wire, the temperature rise was found to be below 10°C at the rated current. In fact, the temperature rise did not exceed 30°C until the current was above 20 amps, more than twice the rated current.

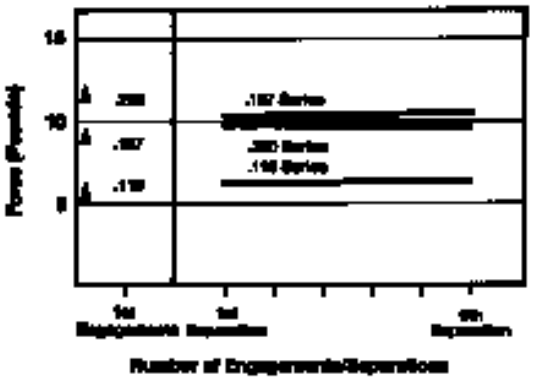
Current Cycling vs. Temperature Rise (16 AWG)



Maintaining a safe temperature rise during cyclic applications of excessive current is the toughest challenge for the crimp-thru-plastic concept. The ability of the Ultra-Fast FASTON product line to meet this goal sets it apart from other preinsulated terminations.
Tyco Electronics' experience in crimp development results in a termination that exhibits stable heating characteristics which are well within the safety requirements of the industry.

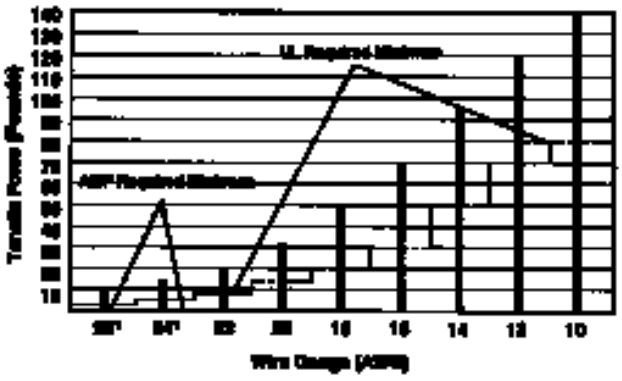
To test a product, it must be subjected to 500 on and off cycles at twice the rated current for the particular wire size. The temperature rise is measured on the 24th cycle and the 500th cycle. The maximum temperature rise is limited to 85°C above ambient temperature with a maximum of 15°C increase on any sample between the 24th and 500th cycles. Our testing of 16 AWG wire application indicated a 25.5°C maximum temperature rise up to 500 cycles, with a

Engagement/Separation



The forces caused by the rolls of FASTON style terminals determine the contact interface integrity of a mated receptacle and tab. These forces must be high enough to prevent oxidation and corrosion from forming inside the contact area. As these forces are raised to increase the electrical performance, the engagement and separation forces for mating the contacts are significantly increased. For this reason, the Premier Low Insertion Force FASTON concept of receptacle design has been carried over to the Ultra-Fast FASTON products. This feature provides consistent engagement and separation forces while maintaining a high standard of electrical reliability.

Crimp Tensile



[1] UL does not have requirements for wire gauges below 22 AWG.
Note: Minimum requirements are per Tyco Electronics specifications.

The crimp tensile strength of a wire-to-terminal connection is important in guarding against such hazards as wire flexing, vibration and wire strain. However, maximum tensile strength does not insure maximum electrical performance. An acceptable compromise between tensile strength and electrical performance must always be reached, using recommended crimp heights.

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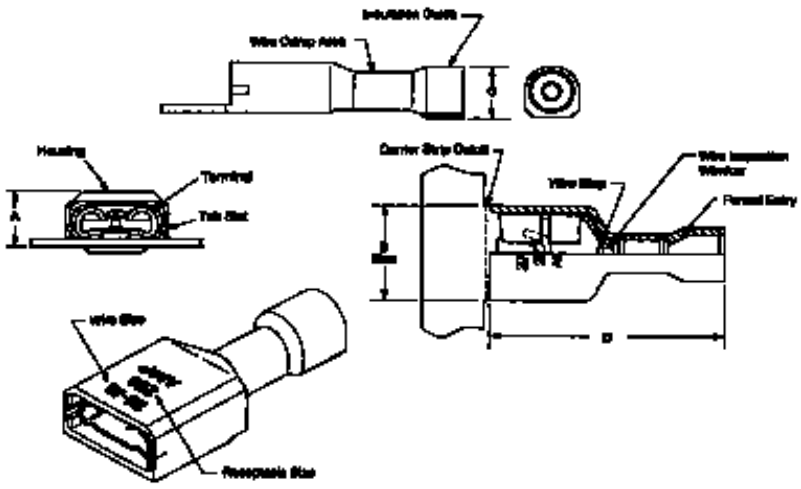
Ultra-Fast Fully Insulated FASTON Receptacles and Tabs (Continued)

Ultra-Fast Fully Insulated FASTON Receptacles

Material

Housing — Nylon Type 6/6
Flammability — UL 94 V-2
Terminal — Tin-plated, copper alloy
Color Code (Translucent)
Violet — 26-22 AWG
Red — 22-18 AWG
Blue — 16-14 AWG
Yellow — 12-10 AWG



Description	Wire Range AWG	Ins. Dia. Max.	Dimensions A	B	C	D	Mating Tab	Terminal Base Material	Part Numbers Strip	Loose Piece
.110/.125 Series	26-22	**.100** 2.54	**.145** 3.68	**.275** 6.99	**.138** 3.51	**.735** 18.67	**.020 x .110/.125** 0.51 x 2.79/3.18	Brass	7-520365-2[1]	7-520366-2[1]
	22-18	**.120** 3.05	**.160** 4.06	**.275** 6.99	**.167** 4.24	**.735** 18.67	**.016 x .110/.125** 0.41 x 2.79/3.18	Brass	2-520080-2[1]	2-520081-2[1]
							.020 x .110/.125 0.51 x 2.79/3.18	Brass	2-520083-2	2-520084-2
							.032 x .110/.125 0.81 x 2.79/3.18	Brass	2-520272-2[3]	2-520273-2
		.230 5.84	**.155** 3.94	**.275** 6.99	**.295** 7.49	**.865** 21.97	**.020 x .110/.125** 0.51 x 2.79/3.18	Brass	2-520306-2	—
							.032 x .110/.125 0.81 x 2.79/3.18	Brass	2-520310-2	—
	16-14	**.260** 6.60	**.175** 4.45	**.275** 6.99	**.325** 8.26	**.865** 21.97	**.020 x .110/.125** 0.51 x 2.79/3.18	Brass	3-520370-2[2]	—
.187 Series	22-18	**.135** 3.43	**.165** 4.19	**.336** 8.53	**.200** 5.08	**.855** 21.72	**.020 x .187** 0.51 x 4.75	Brass	2-520181-2[3]	2-520182-2
								Phos. Brz.	2-520181-4	—
							.032 x .187 0.81 x 4.75	Brass	2-520193-2[3]	2-520194-2[3]
		.230 5.84	**.165** 4.19	**.336** 8.53	**.295** 7.49	**.935** 23.75	**.020 x .187** 0.51 x 4.75	Brass	2-520261-2	2-520262-2
							.032 x .187 0.81 x 4.75	Brass	2-520274-2	2-520275-2
	16-14	**.160** 4.06	**.185** 4.70	**.336** 8.53	**.225** 5.72	**.855** 21.72	**.020 x .187** 0.51 x 4.75	Brass	3-350815-2	3-350816-2
							.032 x .187 0.81 x 4.75	Brass	3-520124-2[3]	3-520125-2
		.260 6.60	**.185** 4.70	**.336** 8.53	**.325** 8.26	**.935** 23.75	**.020 x .187** 0.51 x 4.75	Brass	3-520150-2	3-520151-2
							.032 x .187 0.81 x 4.75	Brass	3-520276-2[3]	—
.205 Series	22-18	**.135** 3.43	**.195** 4.95	**.409** 10.39	**.200** 5.08	**.855** 21.72	**.020 x .205** 0.81 x 5.21	Brass	2-521406-2	—
							.032 x .205 0.81 x 5.21	Brass	2-521308-2	—
.250 Series	22-18	**.135** 3.43	**.195** 4.95	**.409** 10.39	**.200** 5.08	**.855** 21.72	**.032 x .250** 0.81 x 6.35	Brass	2-520183-2[3]	2-520184-2
								Phos. Brz.	2-520183-4	2-520184-4
		.230 5.84	**.195** 4.95	**.409** 10.39	**.295** 7.49	**.935** 23.75	**.032 x .250** 0.81 x 6.35	Brass	2-520263-2	2-520264-2
								Phos. Brz.	2-520263-4	—
	16-14	**.160** 4.06	**.195** 4.95	**.409** 10.39	**.225** 5.72	**.855** 21.72	**.032 x .250** 0.81 x 6.35	Brass	3-350819-2	3-350820-2
								Phos. Brz.	3-520116-2	3-520117-2
		.260 6.60	**.195** 4.95	**.409** 10.39	**.325** 8.26	**.935** 23.75	**.032 x .250** 0.81 x 6.35	Brass	3-520140-2[3]	3-520141-2
								Phos. Brz.	3-520140-4	—
	12-10	**.320** 8.13	**.250** 6.35	**.409** 10.39	**.388** 9.86	**.935** 23.75	**.032 x .250** 0.81 x 6.35	Brass	4-520447-2[3]	4-520448-2

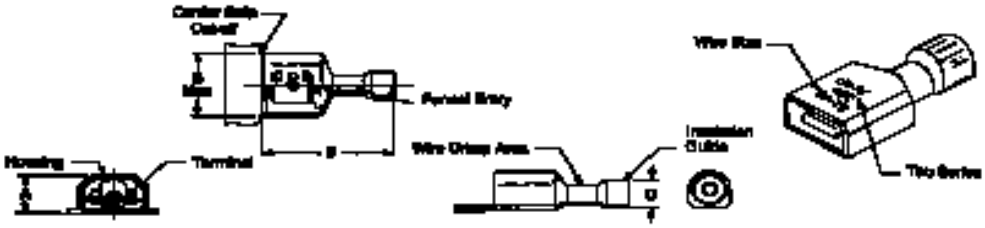
[1] UL Recognized, CSA Certified.
[2] UL Recognized 8 AMPS Max. CSA Certified.
[3] Available with black insulator — Part Number 9-XXXXXX-2.

Ultra-Fast Fully Insulated FASTON Receptacles and Tabs (Continued)

Ultra-Fast Fully Insulated FASTON Tabs

Material

Housing — Nylon Type 6/6
Flammability — UL 94 V-2
Terminal — Tin-plated, copper alloy
Color Code (Translucent)
Red — 22-18 AWG
Blue — 16-14 AWG
Yellow — 12-10 AWG



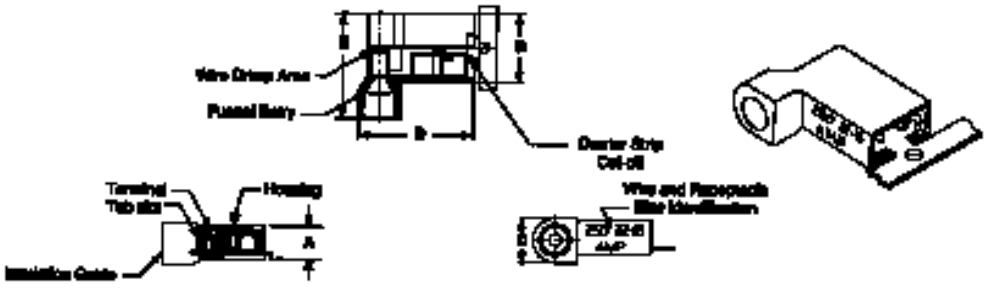
Description	Wire Range AWG	Ins. Dia Max.	Dimensions A	B	C	D	Tab Size	Terminal Base Material	Part Numbers Strip	Loose Piece
.250 Series	22-18	**.135** 3.43	**.290** 7.37	**.522** 13.26	**.205** 5.21	**.855** 21.72	**.032 x .250** 0.81 x 6.35	Brass	2-520102-2	2-520103-2
		.230 5.84	**.290** 7.37	**.522** 13.26	**.295** 7.49	**.935** 23.75	**.032 x. 250** 0.81 x 6.35	Brass	2-521144-2	2-521192-2
	16-14	**.160** 4.06	**.290** 7.37	**.522** 13.26	**.230** 5.84	**.855** 21.72	**.032 x. 250** 0.81 x 6.35	Brass	3-520106-2	3-520107-2
		.260 6.60	**.290** 7.37	**.522** 13.26	**.325** 8.26	**.935** 23.75	**.032 x. 250** 0.81 x 6.35	Brass	3-521142-2	3-521191-2
	12-10	**.320** 8.13	**.352** 8.94	**.522** 13.26	**.388** 9.86	**.935** 23.75	**.032 x .250** 0.81 x 6.35	Brass	4-521097-2	4-521098-2
.187 Series	22-18	**.135** 3.43	**.250** 6.35	**.448** 11.38	**.205** 5.21	**.793** 20.14	**.020 x .187** 0.51 x 4.75	Brass	2-521102-2	2-521103-2
							.032 x .187 0.81 x 4.75	Brass	2-521104-2[1]	2-521105-2[1]

[1] Available with black insulator — Part Number 9-XXXXXX-2.

Ultra-Fast Fully Insulated FASTON Flag Receptacles

Material

Housing — Nylon Type 6/6
Flammability — UL 94 V-2
Terminal — Tin-plated, copper alloy
Color Code (Translucent)
Red — 22-18 AWG
Blue — 16-14 AWG
Yellow — 12-10 AWG



Description	Wire Range[1] AWG	Ins. Dia. Max.	Dimensions A	B	C	D	E	Mating Tab	Terminal Base Material	Part Numbers Strip	Loose Piece
.187 Series	22-18	**.165** 4.19	**.187** 4.75	**.320** 8.13	**.235** 5.97	**.636** 16.15	**.515** 13.08	**.020 x .187** 0.51 x 4.75	Brass	2-520334-2[2]	2-520335-2
								.032 x .187 0.81 x 4.75	Brass	2-520336-2[2]	2-520337-2
	16-14	**.185** 4.70	**.187** 4.75	**.320** 8.13	**.255** 6.48	**.632** 16.05	**.515** 13.08	**.020 x .187** 0.51 x 4.75	Brass	3-520338-2[2]	3-520339-2
								.032 x .187 0.81 x 4.75	Brass	3-520340-2[2]	—
		.260 6.60	**.187** 4.75	**.320** 8.13	**.325** 8.26	**.668** 16.97	**.565** 14.35	**.020 x .187** 0.51 x 4.75	Brass	3-520997-2	—
								.032 x .187 0.81 x 4.75	Brass	3-521247-2[2]	—
.205 Series	22-18	**.165** 4.19	**.187** 4.75	**.385** 9.78	**.235** 5.97	**.636** 16.15	**.580** 14.73	**.032 x .205** 0.81 x 5.21	Brass	2-521164-2	—
.250 Series	22-18	**.165** 4.19	**.187** 4.75	**.385** 9.78	**.235** 5.97	**.636** 16.15	**.580** 14.73	**.032 x .250** 0.81 x 6.35	Brass	2-520128-2	2-520129-2
		.230 5.84	**.187** 4.75	**.385** 9.78	**.295** 7.49	**.665** 16.89	**.630** 16.00	**.032 x .250** 0.81 x 6.35	Brass	2-520856-2	—
	16-14	**.185** 4.70	**.187** 4.75	**.385** 9.78	**.255** 6.48	**.632** 16.05	**.580** 14.73	**.032 x .250** 0.81 x 6.35	Brass	3-520132-2[2]	3-520133-2
		.260 6.60	**.187** 4.75	**.385** 9.78	**.325** 8.26	**.668** 16.97	**.630** 16.00	**.032 x .250** 0.81 x 6.35	Brass	3-521013-2	—

[1] Stranded wire only.
[2] Available with black insulator — Part Number 9-XXXXXX-2.

Catalog 82004
Revised 7-06

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South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-208-420-8341

Ultra-Fast Plus Fully Insulated FASTON Receptacles and Tabs

Product Facts

- One-piece Fully Insulated Premier line FASTON Receptacle with insulation crimp helps prevent shock and short hazards
- Designed for correct lead-in of tab
- Designed for full mating with a variety of tab styles including those with shoulders
- Funnel wire entry
- Wire stop
- Visual inspection of crimp and wire brush
- Assemblies are color-coded by wire size
- Assemblies contain wire size and tab size designation
- Mating tab thickness marked on terminal and visible through housing (110 and 187 Series)
- Application tooling available to meet production requirements
- Tin-plated copper alloy terminals
- UL rated at +105°C
- Terminates 22-14 AWG solid, fused and stranded wire
- Complies with the IEC 380, 601, 950, and UL 1950 requirements for a secondary means of insulation fixing

Performance Capabilities

- Meets UL-310 specification for quick connect terminals; UL listed under File No. E-66717
- Meets CSA C22.2, No.153 Specification for quick connect terminals; CSA Certified under File No. LR 7189
- VDE tested according to DIN VDE 0627/ 9.91, specification for connectors and plug and socket devices VDE Reg. No. 5103

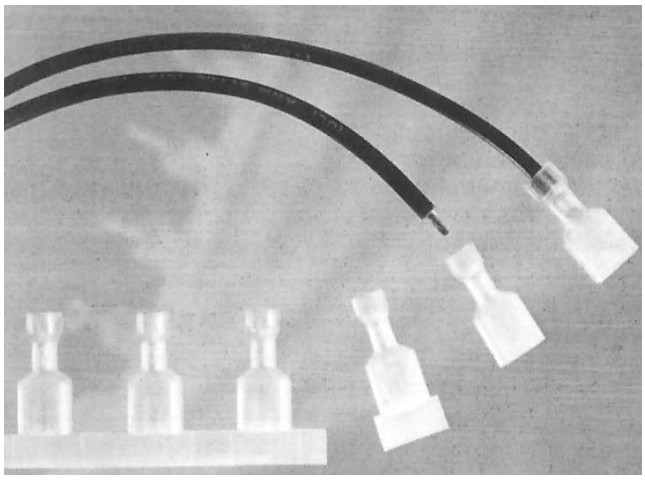
- 600-volt application capability (1,000 volts for signs and fixtures)
- Tested by TUV File No. E9071003 as suitable for end product certification to the following standards:

EN 60 950/09.87

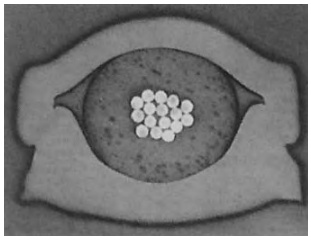
DIN IEC 380/VDE 0806/08.81

DIN IEC 601-1 Part 1/VDE 0750 T1/05.82

DIN VDE 0700 T1/02.81



Ultra-Fast Plus Fully Insulated FASTON Receptacles and Tabs offer all the advantages of the standard Ultra-Fast product plus an insulation crimp.



Insulation Crimp Cross

Ultra-Fast Plus Fully Insulated FASTON Receptacles and Tabs preclude the need for costly electrical safety interlocks or special protective shields to help prevent shock hazards. In addition, electrical short circuits from exposed leads are eliminated, even in equipment requiring close contact spacing.

Ultra-Fast Plus FASTON Receptacles and Tabs are preinsulated assemblies featuring a co-molded housing produced from two different nylon materials. The receptacle/ tab and wire barrel portions of the housing are molded from type 6/6 nylon material with a +130°C UL temperature rating. The insulation barrel is molded from a premium grade nylon selected to retain the insulation crimp shape. This premium nylon exhibits minimal springback, thus providing actual insulation crimp tensile strength as well as strain relief for applications where extreme wire dressing and/or vibration are present.

The Ultra-Fast Plus FASTON Receptacle housing completely encloses a tin-plated copper alloy Premier FASTON receptacle which has been stress relieved for increased durability and resistance to operator abuse. The FASTON receptacle is recessed sufficiently within the housing to allow its use in 600-volt applications. The receptacle portion of the terminal is designed for positive mating with a variety of tabs, including those with shoulders. The housing has a slotted membrane which is displaced by two tab shoulders allowing proper engagement of tab and receptacle while maintaining the fully insulated characteristics.

Positive entry and lead-in of the tab is provided by the inner housing wall and the lead-in on the terminal rolls. This permits positive engagement, even in blind mating locations.

The Ultra-Fast Plus FASTON Tab housing completely encloses a tin-plated copper alloy FASTON tab. The FASTON tab is recessed sufficiently within the housing to allow its use in 600-volt applications. The housing is designed to completely encapsulate the tab and receptacle when the two are mated.

Quality control is easily maintained. The nylon housing is translucent, allowing visual inspection of the termination.

Depending on production requirements, Tyco Electronics provides a complete selection of terminating equipment from hand tools to automatic lead makers.

Catalog 82004
Revised 7-06

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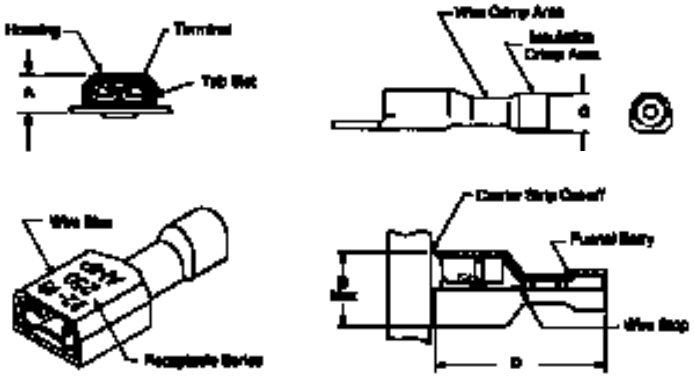
Ultra-Fast Plus Fully Insulated FASTON Receptacles and Tabs (Continued)

Ultra-Fast Plus Fully Insulated FASTON Receptacles

Material

Housing — Nylon
Flammability — UL 94 V-2
Terminal — Tin plated, copper alloy
Color Code (Translucent)
Red — 22-18 AWG
Blue — 16-14 AWG

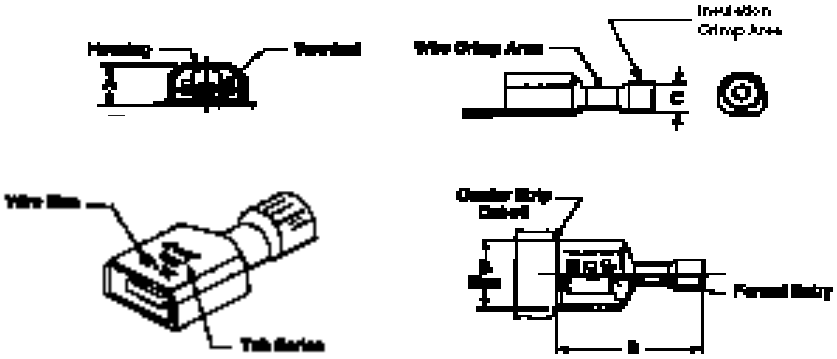


Description	Wire Range AWG	Ins. Dia. Range	Dimensions A	B	C	D	Mating Tab	Terminal Base Material	Part Numbers Strip	Loose Piece
.110/.125 Series	22-18	**.060-.120** 1.52-3.05	**.160** 4.06	**.275** 6.99	**.167** 4.24	**.735** 18.67	**.020 x .110/.125** 0.51 x 2.79/3.18	Brass	2-520932-2	—
							.032 x .110/.125 0.81 x 2.79/3.18	Brass	2-520979-2	—
.187 Series	22-18	**.060-.135** 1.52-3.43	**.165** 4.24	**.336** 8.53	**.200** 5.08	**.855** 21.72	**.020 x .187** 0.51 x 4.75	Brass	2-520401-2	2-520409-2
							.032 x .187 0.81 x 4.75	Brass	2-520403-2	2-520411-2
	16-14	**.090-.160** 2.29-4.06	**.185** 4.70	**.336** 8.53	**.225** 5.72	**.855** 21.72	**.020 x .187** 0.51 x 4.75	Brass	3-520402-2	3-520410-2
							.032 x .187 0.81 x 4.75	Brass	3-520404-2	3-520412-2
.250 Series	22-18	**.060-.135** 1.52-3.43	**.195** 4.95	**.409** 10.39	**.200** 5.08	**.855** 21.72	**.032 x .250** 0.81 x 6.35	Brass	2-520405-2	2-520407-2
	16-14	**.090-.160** 2.29-4.06	**.195** 4.95	**.409** 10.39	**.225** 5.72	**.855** 21.72	**.032 x .250** 0.81 x 6.35	Brass	3-520406-2	3-520408-2

Ultra-Fast Plus Fully Insulated FASTON Tabs

Material

Housing — Nylon
Flammability — UL 94 V-2
Terminal — Tin plated, copper alloy
Color Code (Translucent)
Red — 22-18 AWG
Blue — 16-14 AWG



Description	Wire Range AWG	Ins. Dia. Range	Dimensions A	B	C	D	Mating Tab	Terminal Base Material	Part Numbers Strip	Loose Piece
.187 Series	22-18	**.060-.135** 1.52-3.43	**.250** 6.35	**.488** 11.38	**.205** 5.21	**.793** 20.14	**.020 x .187** 0.51 x 4.75	Brass	2-521360-2	—
							.032 x .187 0.81 x 4.75	Brass	2-521361-2	—
.250 Series	22-18	**.060-.135** 1.52-3.43	**.290** 7.37	**.522** 13.26	**.205** 5.21	**.855** 21.72	**.032 x .250** 0.81 x 6.35	Brass	2-521055-2	—
	16-14	**.090-.160** 2.29-4.06	**.290** 7.37	**.522** 13.26	**.230** 5.84	**.855** 21.72	**.032 x .250** 0.81 x 6.35	Brass	3-521057-2	—

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Ultra-Pod Fully Insulated FASTON Receptacles and Tabs

Product Facts

- **Reduced insertion force**
- **Designed for correct lead-in of tab**
- **Mates with typical 110, 187 and 250 Series tab styles including those with shoulders**
- **UL rated at +105°C**
- **110 Series accepts 22-18 AWG [0.3–1 mm²], 187 Series accepts 20-16 AWG [0.5–1.4mm²] wire and 250 Series accepts 22-10 AWG [0.3–5 mm²] wire**
- **Visual inspection of crimp and wire brush**
- **Terminated by automatic or semi-automatic equipment to meet production requirements**
- **Complies with the IEC 380, 601 and 950 and UL 1950 requirements for a secondary means of insulation fixing**
- **Listed by Underwriters Laboratories Inc., File No. E66717**
- **CSA Certified, File No. LR 7189**
- **VDE tested according to DIN VDE 0627/ 9.91, VDE Reg. No. 9168**

Technical Documents

Product Specification
108-1285
108-2215

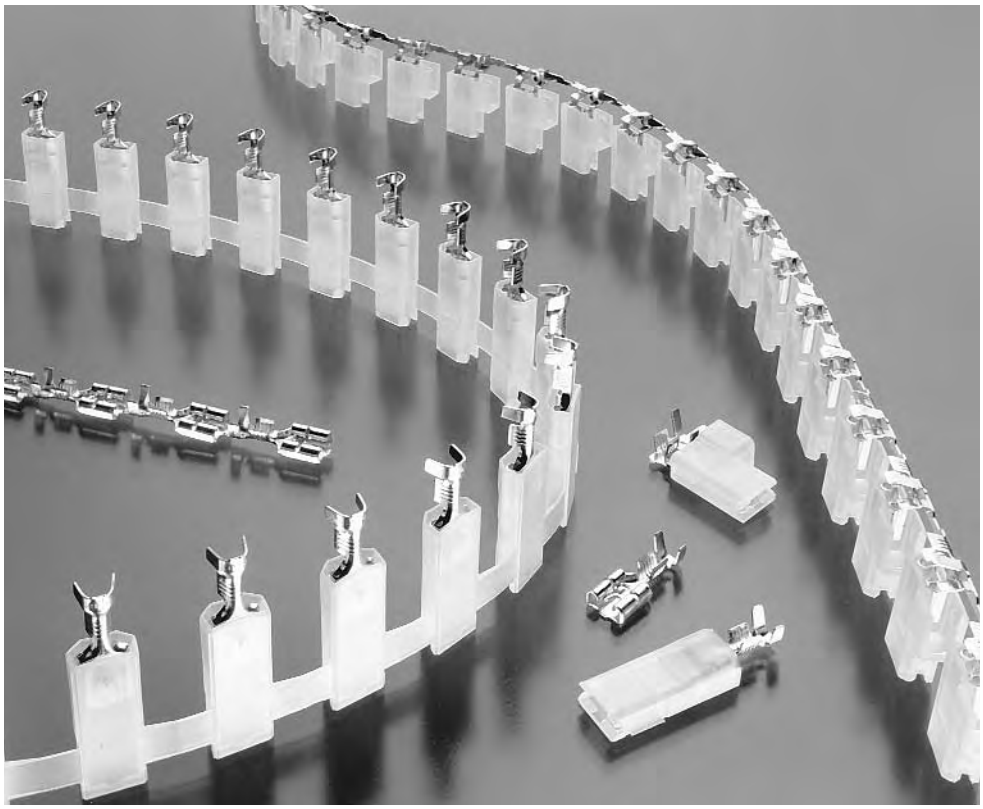
Application Specification
114-2124

Hand Tools — Insertion

250 Series—314916-1
250 Series Flag—314919-1

Hand Tools — Extraction

250 Series—314917-1



Ultra-Pod Fully Insulated FASTON Receptacles offer the newest in one-step automatic application of insulated quick connects. The unique integral plastic carrier designed specifically for this product allows insulated F-Crimp terminations to be produced quickly and easily. Applied cost savings are attainable with either bench or high-speed automatic termination equipment and the elimination of any secondary insulation operations. Both the crimping of the terminal and the terminal insulating occur in a single stroke of the press and applicator—the crimping on the down-stroke and the insulating on the up-stroke.

The receptacles contained within the Ultra-Pod FASTON Receptacle assemblies are tested and customer qualified and can be immediately used in existing applications where insulation has been accomplished by other means. The low insertion force design provides easier tab insertion, reduces operator fatigue and improves the productivity and reliability of the end assembly operation.

The insulating housing is produced by a unique molding process which provides an integral carrier and eliminates the crimp location problems related to secondary carriers. This housing, produced from 130°C rated 6/6 nylon, covers the FASTON receptacle sufficiently to provide for use in 600-volt applications. Most importantly, this insulating system helps eliminate the workplace hazards and labor costs of chemically expanded or heat shrink tubing.

Depending on production requirements, Tyco Electronics provides a complete selection of terminating equipment from bench press to automatic lead maker.

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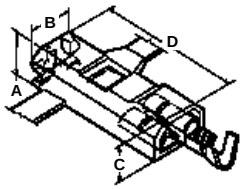
Ultra-Pod Fully Insulated FASTON Receptacles and Tabs (Continued)

Insulation Support



Description	Wire Range	Ins. Dia. Range	Dimensions A	B	C	D	Mating Tab	UL 94[1]	Color	Material and Finish	Part Numbers
.110 Series	22-18	**.080-.120** 2.03-3.05	**.151** 3.83	**.224** 5.69	**.205** 5.21	**.805** 20.45	**.020** 0.51	V-2	Natural	Brass	521228-1
										Tin-Plated Brass	521228-2
							.032 0.81	V-2	Natural	Brass	521436-1
										Tin-Plated Brass	521436-2
								V-0	Natural	Brass	521437-1[2]
										Tin-Plated Brass	521437-2[2]
.187 Series	20-16	**.090-.130** 2.29-3.30	**.170** 4.32	**.295** 7.49	**.200** 5.08	**.775** 19.68	**.020** 0.51	V-2	Natural	Brass	520973-1
										Tin-Plated Brass	520973-2
								V-0	Natural	Brass	521225-1
										Tin-Plated Brass	521225-2
							.032 0.81	V-2	Natural	Brass	520982-1
										Tin-Plated Brass	520982-2
								V-0	Natural	Brass	521284-1
										Tin-Plated Brass	521284-2
	18-16 or 2-18	(2) **.105** Max. 2.67	**.170** 5.33	**.295** 7.49	**.200** 5.08	**.775** 19.68	**.020** 0.51	V-2	Natural	Brass	521293-1[4]
										Tin-Plated Brass	521293-2[4]
								V-0	Natural	Brass	521586-1[4]
										Tin-Plated Brass	521586-2[4]
.250 Series	22-18	**.090-.130** 2.29-3.30	**.195** 4.95	**.370** 9.40	**.225** 5.72	**.945** 24.00	**.032** 0.81	V-2	Natural	Brass	520988-1
										Tin-Plated Brass	520988-2
								V-0	Natural	Brass	521368-1
										Tin-Plated Brass	521368-2
	18-14	**.120-.170** 3.05-4.32	**.195** 4.95	**.370** 9.40	**.225** 5.72	**.945** 24.00	**.032** 0.81	V-2	Natural	Brass	520963-1
										Tin-Plated Brass	520963-2
								V-0	Natural	Brass	521367-1
										Tin-Plated Brass	521367-2
								V-2	Black	Tin-Plated Brass	521011-2
										Nickel Plated Steel	521011-1[2,3]
	18-14 or 2-18	(2) **.105** Max. 2.67	**.195** 4.95	**.370** 9.40	**.225** 5.72	**.945** 24.00	**.032** 0.81	V-2	Natural	Brass	521637-1
										Tin-Plated Brass	521637-2
								V-0	Natural	Brass	521632-1
										Tin-Plated Brass	521632-2
	14-10	**.130-.180** 3.30-4.57	**.195** 4.95	**.370** 9.40	**.225** 5.72	**.945** 24.00	**.032** 0.81	V-2	Natural	Brass	520974-1
										Tin-Plated Brass	520974-2
								V-0	Natural	Brass	521366-1
										Tin-Plated Brass	521366-2

[1] Flammability rating of plastic material.
[2] 150°C rated nylon.
[3] UL Recognized.
[4] UL pending for double wire termination.

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Revised 7-06

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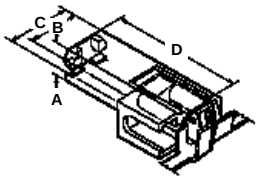
Ultra-Pod Fully Insulated FASTON Receptacles and Tabs (Continued)

Flag Insulation Support



Description	Wire Range	Ins. Dia. Range	Dimensions A	B	C	D	Mating Tab	UL 94[1]	Color	Material and Finish	Part Numbers
.187 Series	22-18	**.060-.110** 1.52-2.79	**.170** 4.32	**.295** 7.49	**.485** 12.32	**.680** 17.27	**.020** 0.51	V-2	Natural	Brass	521470-1
										Tin-Plated Brass	521470-2
								V-0	Natural	Brass	521596-1
										Tin-Plated Brass	521596-2
							.032 0.81	V-2	Natural	Brass	521598-1
										Tin-Plated Brass	521598-2
								V-0	Natural	Brass	521600-1
										Tin-Plated Brass	521600-2
	18-14 (2) 20 or (2) 18	(2) **.105** 2.66 Max.	**.170** 4.32	**.295** 7.49	**.485** 12.32	**.680** 17.27	**.020** 0.51	V-2	Natural	Brass	521471-1[2]
										Tin-Plated Brass	521471-2[2]
								V-0	Natural	Brass	521597-1[2]
										Tin-Plated Brass	521597-2[2]
							.032 0.81	V-2	Natural	Brass	521599-1[2]
										Tin-Plated Brass	521599-2[2]
								V-0	Natural	Brass	521601-1[2]
										Tin-Plated Brass	521601-2[2]
.250 Series	22-18	**.050-.100** 1.27-2.54	**.200** 5.08	**.370** 9.40	**.585** 14.86	**.680** 17.27	**.032** 0.81	V-2	Natural	Brass	521050-1
										Tin-Plated Brass	521050-2
								V-0	Natural	Brass	521411-1
										Tin-Plated Brass	521411-2
	18-14	**.110-.160** 2.79-4.06	**.200** 5.08	**.370** 9.40	**.585** 14.86	**.680** 17.27	**.032** 0.81	V-2	Natural	Brass	520971-1
										Tin-Plated Brass	520971-2
									Black	Tin-Plated Brass	520971-4
										Nickel Plated Steel	521087-1[3]
								V-0	Natural	Brass	521282-1
										Tin-Plated Brass	521282-2
	18-14 (2) 20 or (2) 18	(2) **.105** 2.66 Max.	**.200** 5.08	**.370** 9.40	**.585** 14.86	**.680** 17.27	**.032** 0.81	V-2	Natural	Brass	521112-1
								V-0	Natural	Brass	521633-1
										Tin-Plated Brass	521633-2

[1] Flammability rating of plastic material.
[2] UL pending for double wire terminations.
[3] No UL or CSA approvals.

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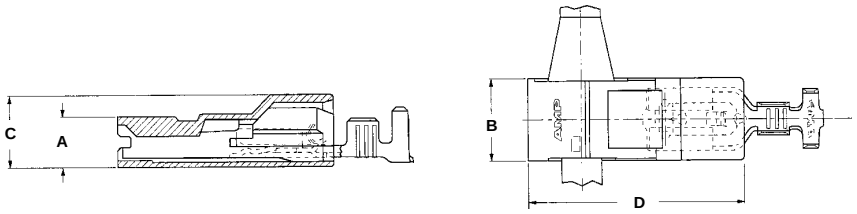
Ultra-Pod Fully Insulated FASTON Receptacles and Tabs (Continued)

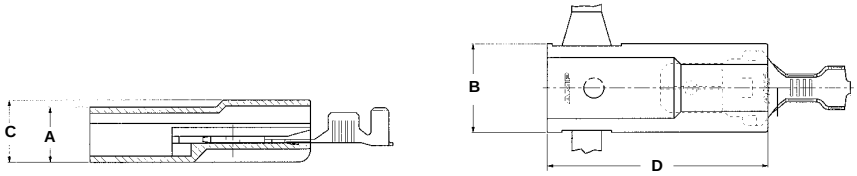
Positive Lock Insulation Support



Description	Wire Range	Ins. Dia. Range	Dimensions A	B	C	D	Mating Tab	UL 94[1]	Color	Material and Finish	Part Numbers
.187 Series	18-14	**.110-.180** 2.79-4.57	**.186** 4.72	**.307** 7.80	**.265** 6.73	**.812** 20.62	**.020** 0.51	V-2	Natural	Brass	521271-1[2]
										Tin-Plated Brass	521271-2[2]
								V-0	Natural	Tin-Plated Brass	521212-2[2]
.250 Series	18-14	**.110-.180** 2.79-4.57	**.205** 5.21	**.370** 9.40	**.245** 6.22	**.950** 24.13	**.032** 0.81	V-2	Natural	Brass	521213-1[2]
										Tin-Plated Brass	521213-2[2]
								V-0	Natural	Brass	521317-1[2]
										Tin-Plated Brass	521317-2[2]

[1] Flammability rating of plastic material.
[2] UL Recognized, CSA Certified

Tabs Insulation Support



Description	Wire Range	Ins. Dia. Range	Dimensions A	B	C	D	Tab	UL 94[1]	Color	Material and Finish	Part Numbers
.250 Series	18-14	**.130-.180** 3.30-4.57	**.275** 6.99	**.450** 11.43	**.310** 7.87	**1.120** 28.45	**.032** 0.81	V-2	Natural	Brass	521217-1
										Tin-Plated Brass	521217-2
								V-0	Natural	Brass	521451-1
										Tin-Plated Brass	521451-2
	12-10	**.150-.200** 3.81-5.08	**.275** 6.99	**.450** 11.43	**.310** 7.87	**1.120** 28.45	**.032** 0.81	V-2	Natural	Brass	521227-1[2]
										Tin-Plated Brass	521227-2[2]

[1] Flammability rating of plastic material.
[2] No UL or CSA approvals

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UK: 44-208-420-8341

PIDG FASTON Receptacles and Tabs

Product Facts

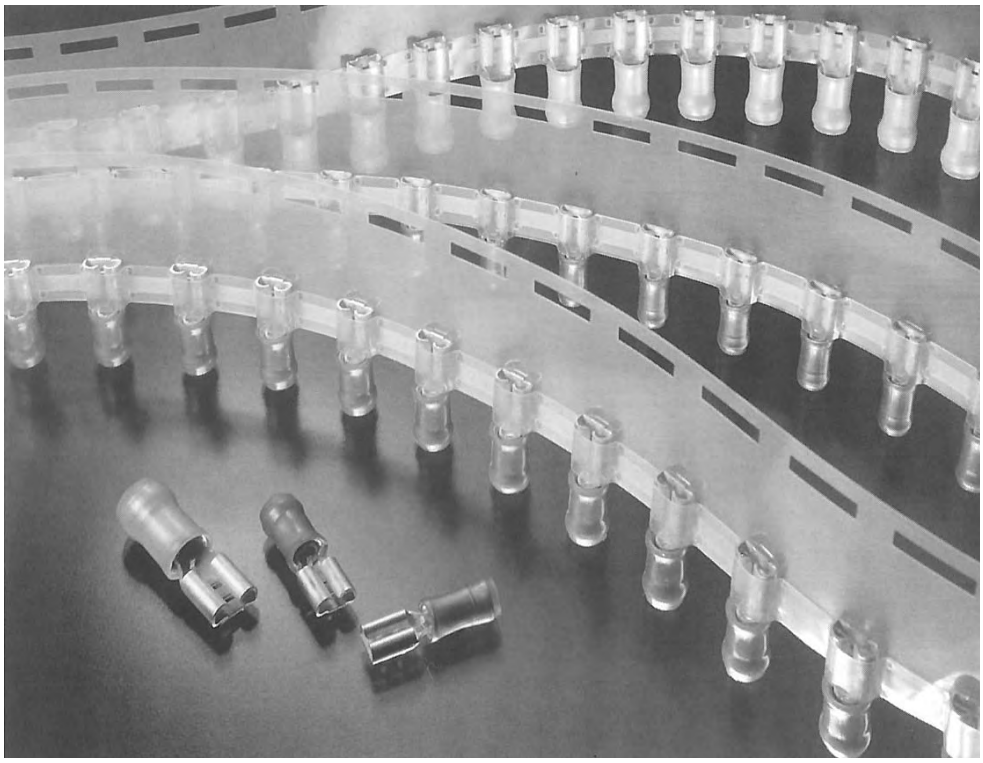
- **Pre-insulated terminal designed for complete and uniformed reliability in the most difficult circuit environment**
- **Consists of an unplated or tin-plated brass body or a tin-plated phosphor bronze body with a specially designed copper sleeve and insulation sleeve fitted over the terminal barrel**
- **Design of the tool dies and construction of the terminal insures uniform insulation thickness under crimping pressure, transmitting this pressure evenly to the center of the crimp area**

The Tyco Electronics Mated Tool/Terminal Concept

- **Tyco Electronics compression crimping produces crimps for a given size wire and terminal that are precisely alike in appearance and performance**
- **Terminal and the crimping tool are designed as precisely matched devices**
- **Dies are precision-engineered from the finest hard-metal alloys**
- **Crimping pressure is controlled by a ratchet device on the hand tool or a corresponding pre-calibration in the crimping jaws of Tyco Electronics automated crimping machines**

The Crimp

- **Crimping pressure does not overstress nor understress the terminal barrel — machined dies fully bottom to the precise crimp height**
- **Resulting termination is free of contamination**
- **Resistant to most shock and critical environments**
- **Tensile strength approaches that of the wire itself**



Here is a pre-insulated terminal designed for complete and uniform reliability in most difficult circuit environments. Each PIDG Terminal consists of a tin-plated brass body with a specially designed copper sleeve and insulation sleeve fitted over the terminal barrel. The design of the tool dies and the construction of the terminal promotes uniform insulation thickness under crimping pressure, transmitting this pressure evenly to the center of the crimp area.

Tyco Electronics compression crimping produces crimps for a given size wire and terminal that are precisely alike in appearance and performance. This is a calculated result made possible by designing the terminal and the crimping tool as precisely matched devices. The dies are precision-engineered from the finest hard-metal alloys. Crimping pressure is controlled by a ratchet device on the hand tool or a corresponding pre-calibration in the crimping jaws of Tyco Electronics automated crimping machines.

Crimping pressure can neither over-stress nor understress the terminal barrel — machined dies fully bottom to the precise crimp height required.

The resulting termination is free of contamination, is resistant to shock and critical environments, and its tensile strength approaches that of the wire itself.

Temperature Rating: 105° C

Wire Range	E66717 Recognized	LR7189 Certified
22-16	22-16 Stranded	300 V Max., 105°C Max.[1]
16-14	16-14 Stranded	
12-10	12-10 Stranded	

[1] UL and CSA — Nylon.

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PIDG FASTON Receptacles and Tabs (Continued)

Receptacles

Receptacle Style

A — No dimple with wire stop

B — Dimple with wire stop

C — No dimple, no wire stop

Material

Insulation — Nylon

Receptacle Body — Brass per ASTM B-36 or Phosphor Bronze per ASTM B-139

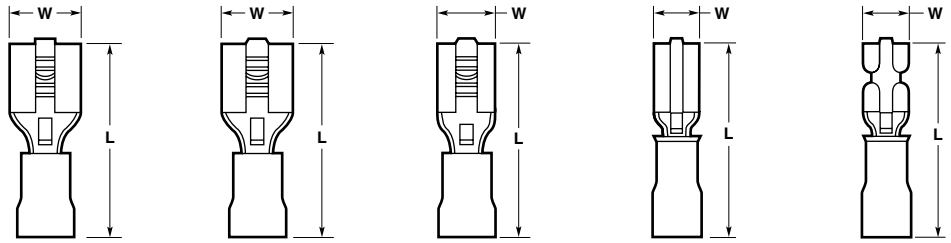
Plating — Tin per MIL-T-10727 except where noted.

Metallic Sleeve — Copper per ASTM B-152

Plating — Tin per MIL-T-10727

Related Product Data

Application Tooling — reference page 73 of Catalog 82042 for tooling



.250 Series | **.205 Series** | **.187 Series** | **.110 Series-Standard** | **.110 Series-Low Insertion**

Series	Wire Size Circular Mils [mm²]	Style	Dimensions W Nom.	Dimensions L Max.	Terminal Insulation Color	Wire Insulation Diameter Max.	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers Loose Piece	Part Numbers Tape Mounted	Part Numbers Strip Form
.250	22-18 509-1,900 [0.26-0.96]	B	**.300** 7.62	**.900** 22.86	Red	**.140** 3.56	Brass	**.018** 0.46	**.032** 0.81	640903-1*	640903-2	640902-1
					Red	**.140** 3.56	Brass	**.018** 0.46	**.032** 0.81	55675-1[2]	55675-2[2]	—
	16-14 2,050-5,180 [1.04-2.62]	B	**.300** 7.62	**.900** 22.86	Blue	**.170** 4.32	Brass	**.018** 0.46	**.032** 0.81	640905-1*	640905-2	640904-1
	14-12 3,831-6,470[1] [1.94-3.28]	B	**.300** 7.62	**1.012** 25.70	Blue	**.250** 6.35	Brass	**.018** 0.46	**.032** 0.81	696108-1	696108-2	696109-1
					Green	**.250** 6.35	Brass	**.018** 0.46	**.032** 0.81	42844-1*†	42844-3†	60544-3†
					Green	**.250** 6.35	Phos. Brz.	**.018** 0.46	**.032** 0.81	42844-2*†	—	—
	12-10 5,180-13,100 [2.62-6.64]	B	**.300** 7.62	**1.012** 25.70	Yellow	**.250** 6.35	Brass	**.018** 0.46	**.032** 0.81	640907-1*	640907-2	640906-1
					Yellow	**.250** 6.35	Phos. Brz.	**.018** 0.46	**.032** 0.81	61198-2[3]†	61198-4[4]†	—
.250 Low Insertion	22-18 509-1,900 [0.26-0.96]	B	**.300** 7.62	**.900** 22.86	Red	**.145** 3.68	Brass	**.016** 0.41	**.032** 0.81	184262-1	184262-2	184261-1
	16-14 2,050-5,180 [1.04-2.62]	B	**.300** 7.62	**.900** 22.86	Blue	**.173** 4.39	Brass	**.016** 0.41	**.032** 0.81	184265-1	184265-2	184264-1
.205	22-18 509-1,900 [0.26-0.96]	B	**.250** 6.35	**.800** 20.32	Red	**.135** 3.43	Brass	**.016** 0.41	**.020** 0.51	696018-1	696018-2	—
					Red	**.140** 3.56	Brass	**.016** 0.41	**.020** 0.51	640909-1*	640909-2	640908-1
					Red/Black	**.140** 3.56	Brass	**.016** 0.41	**.020** 0.51	640174-1	—	—
					Red	**.140** 3.56	Brass	**.016** 0.41	**.032** 0.81	640911-1*	640911-2	640910-1
	16-14 2,050-5,180 [1.04-2.62]	B	**.250** 6.35	**.800** 20.32	Blue	**.170** 4.32	Brass	**.016** 0.41	**.020** 0.51	640913-1*	640913-2	—
					Blue	**.170** 4.32	Brass	**.016** 0.41	**.032** 0.81	640915-1*	640915-2	—
.187	26-24 238-475 [0.12-0.24]	B	**.230** 5.84	**.700** 17.78	Yellow	**.082** 2.08	Brass	**.016** 0.41	**.020** 0.51	641321-1*†	641321-2†	641320-1†
	22-18 509-1,900 [0.26-0.96]	B	**.230** 5.84	**.800** 20.32	Red	**.140** 3.56	Brass	**.016** 0.41	**.020** 0.51	640917-1*	640917-2	640916-1
					Red	**.140** 3.56	Brass	**.016** 0.41	**.040** 1.02	—	640578-2†	—

† Not UL or CSA approved or listed.
* Available in small packaging quantities.
[1] Wire range is limited as noted.
[2] Unplated receptacle body.
[3] Requires Tool 90276-2
[4] Requires Die 90281-1

Catalog 82004
Revised 7-06

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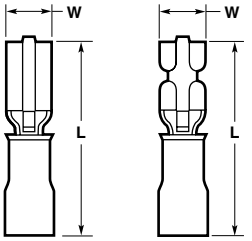
PIDG FASTON Receptacles and Tabs (Continued)

Receptacles (Continued)

Series	Wire Size Circular Mils [mm²]	Style	Dimensions W Nom.	Dimensions L Max.	Terminal Insulation Color	Wire Insulation Diameter Max.	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers Loose Piece	Part Numbers Tape Mounted	Part Numbers Strip Form
.187	16-14 2,050-5,180 [1.04-2.62]	B	**.230** 5.84	**.800** 20.32	Blue	**.170** 4.32	Brass	**.016** 0.41	**.020** 0.51	640919-1*	640919-2	640918-1
			.230 5.84	**.900** 22.86	Blue	**.250** 6.35	Brass	**.016** 0.41	**.032** 0.81	696108-1†	696108-2†	—
	22-18 509-1,900 [0.26-0.96]	B	**.235** 5.84	**.800** 20.32	Blue	**.170** 4.32	Brass	**.016** 0.41	**.032** 0.81	184235-1	184235-2	184234-1
.187 Low Insertion	22-18 509-1,900 [0.26-0.96]	B	**.230** 5.84	**.800** 22.86	Red	**.145** 3.68	Brass	**.016** 0.41	**.032** 0.81	184268-1†	184268-2†	184267-1†
.110 Standard	22-18 509-1,900 [0.26-0.96]	B	**.148** 3.76	**.734** 18.64	Natural	**.110** 2.79	Brass	**.012** 0.30	**.016** 0.41	61048-1*†	61048-2†	—
			.148 3.76	**.734** 18.64	Natural	**.110** 2.79	Brass	**.012** 0.30	**.020** 0.51	61060-1*†	61060-2†	61059-2†
			.148 3.76	**.734** 18.64	Natural	**.110** 2.79	Brass	**.012** 0.30	**.032** 0.81	60894-1*†	60894-2†	60893-2†
			.148 3.76	**.734** 18.64	Black	**.110** 2.79	Brass	**.012** 0.30	**.032** 0.81	—	61678-2†	—
.110 Low Insertion	26-24 238-475 [0.12-0.24]	A	**.160** 4.06	**.700** 17.78	Yellow	**.082** 2.08	Brass	**.016** 0.41	**.020** 0.51	641324-1†	641324-2†	—
	22-18 509-1,900 [0.26-0.96]	A	**.160** 4.06	**.796** 20.22	Red	**.140** 3.56	Brass	**.016** 0.41	**.012** 0.30	—	—	350871-1†
									.016 0.41	640921-1	640921-2	—
			.160 4.06	**.800** 20.32	Red	**.140** 3.56	Brass	**.016** 0.41	**.020** 0.51	640923-1*	640923-2	640922-1
									.032 0.81	640925-1*	640925-2	640924-1
	16-14 2,050-5,180 [1.04-2.62]	A	**.160** 4.06	**.800** 20.32	Blue	**.170** 4.32	Brass	**.016** 0.41	**.020** 0.51	640929-1*	640929-2	—
									.032 0.81	640931-1*	640931-2	—
		B	**.160** 4.06	**.800** 20.32	Blue	**.170** 4.32	Brass	**.016** 0.41	**.016** 0.41	640927-1	640927-2	—
		C	**.160** 4.06	**.796** 20.19	Blue	**.170** 4.32	Brass	**.016** 0.41	**.032** 0.81	641317-1	—	—

†Not UL or CSA approved or listed.
*Available in small packaging quantities.

Receptacles (Insulation Restricting)



.110□ Series-□ Standard | **.110□ Series-□ Low Insertion**

Material

Insulation — Nylon
Receptacle Body — Brass per ASTM B-36
Receptacle Style B — Dimple with wire stop
Plating — Tin per MIL-T-10727
Metallic Sleeve — Copper per ASTM B-152
Plating — Tin per MIL-T-10727 or Nickel per QQ-N-290

Related Product Data

Application Tooling — reference page 73 of Catalog 82042 for tooling

Series	Wire Size Circular Mils [mm²]	Style	Dimensions W Nom.	Dimensions L Max.	Terminal Insulation Color Solid/Stripe	Wire Insulation Diameter Max.	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers Loose Piece	Part Numbers Tape Mounted	Part Numbers Strip Form
.110 Standard	22 754 [0.38]	B	**.148** 3.76	**.780** 19.81	Red / Green	**.040-.080** 1.02-2.03	Brass	**.012** 0.30	**.016** 0.41	55319-1	55319-3	—
.110 Low Insertion	16 2,800 [1.42]	B	**.160** 4.06	**.821** 20.85	Blue / Blue	**.064-.130** 1.63-3.30	Brass	**.016** 0.41	**.016** 0.41	—	55318-3	—

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PIDG FASTON Receptacles and Tabs (Continued)

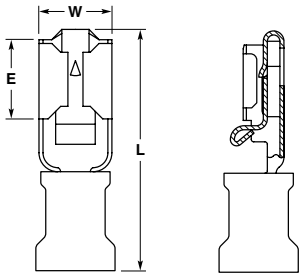
Insulated FASTON — 26 to 10 AWG Wire Range

Wire Size	Hand Tool	Tools for Tape Mounted Terminations			Tools for Strip Form Terminations
		Tape Dies for 69875 AMP-TAPETRONIC No Applicator Required	Tape Dies for AMP-O-LECTRIC[1] Model "G" Applicator 567200-3	Tape Dies for AMPOMATOR CLS III G, CLS IV Applicator 687658-1	AMPOMATOR CLS III G, CLS IV Applicators
26-24	48518-2	69877-2	69877-2	69877-2	—
22-18	59824-1	59826-1	59826-1*	59826-1	466788-3[2]
22-18 (Natural)	90185-1	90248-2	90248-2	90248-2	466554-3
16-14	59824-1	59827-1	59827-1*	59827-1	466789-3[2]
14-12	90246-1	90240-2	90240-2	90240-2	—
12-10	59824-1	59828-1	59828-1*	59828-1	466790-4[2]

*Only UL and CSA approved.
[1]AMP-O-LECTRIC Model "K" 565435-5 uses applicator 567200-2.
[2]Die included with applicator.

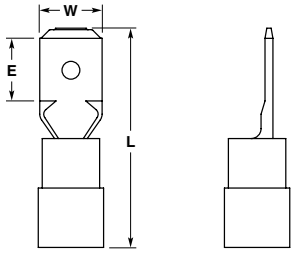
Positive Lock Receptacle

Low Insertion Force with Locking Device



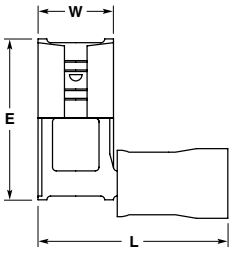
Description	Wire Range	Ins. Dia. Max.	Dimensions W	Dimensions L	Dimensions E	Material and Finish	Part Number
For Tab .250 x .032	16-14	**.190** 4.83	**.362** 9.19	**.850** 21.59	**.315** 8.00	Tin-Plated Brass	165536-1
						Tin-Plated Phosphor Bronze	165536-2

Tab



Description	Wire Range	Ins. Dia. Max.	Dimensions W	Dimensions L	Dimensions E	Material and Finish	Part Number
For Receptacle .250 x .032	22-18	**.157** 3.99	**.250** 6.35	**.866** 22.00	**.300** 7.62	Tin-Plated Brass	696362-1
	16-14	**.197** 5.00	**.250** 6.35	**.866** 22.00	**.300** 7.62	Tin-Plated Brass	696369-1
	12-10	**.256** 6.50	**.250** 6.35	**.950** 24.13	**.300** 7.62	Tin-Plated Brass	696372-1

PIDG Flag FASTON



Description	Wire Range	Ins. Dia. Max.	Dimensions W	Dimensions L	Dimensions E	Material and Finish	Part Number
For Tab .250 x .032	22-18	**.134** 3.40	**.300** 7.62	**.720** 18.29	**.610** 15.49	Tin-Plated Brass	156667-1
	16-14	**.157** 3.99	**.300** 7.62	**.720** 18.29	**.610** 15.49	Tin-Plated Brass	156666-1

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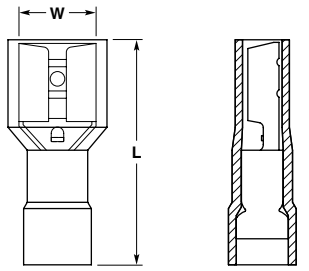
Japan: 81-44-844-8013
UK: 44-208-420-8341

PIDG FASTON Receptacles and Tabs (Continued)

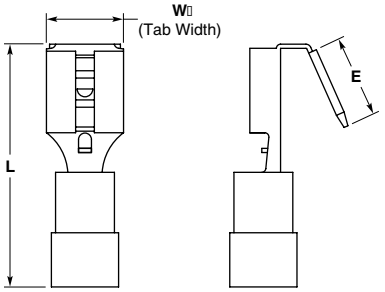
Fully Insulated Receptacles

Insulation Sleeve — Nylon



Description	Wire Range	Ins. Dia. Range	Dimensions W	Dimensions L	Material and Finish	Part Number
For Tab .250 x .032	22-18	**.128** 3.25	**.375** 9.53	**.891** 22.63	Tin-Plated Brass	696357-1
	16-14	**.165** 4.19	**.375** 9.53	**.881** 22.38	Tin-Plated Brass	696366-1
	12-10	**.225** 5.72	**.375** 9.53	**.998** 25.35	Tin-Plated Brass	696371-1

Piggyback FASTON Receptacles



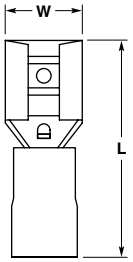
Description	Wire Range	Ins. Dia. Range	Dimensions W	Dimensions L	Dimensions E	Material and Finish	Part Number
For Tab .250 x .032	22-18	**.157** 3.99	**.250** 6.35	**.905** 22.99	**.323** 8.20	Tin-Plated Brass	696363-1*
	16-14	**.197** 5.00	**.250** 6.35	**.905** 22.99	**.323** 8.20	Tin-Plated Brass	696370-1*
	12-10	**.256** 6.50	**.250** 6.35	**.945** 24.00	**.323** 8.20	Tin-Plated Brass	696373-1*

* Piggyback FASTON Receptacles must be crimped with Hand Tool 696374-1.

PIDG Budget Line FASTON Receptacles

Material

Insulation — PVC, UL 94V-0
Receptacle Body — Brass
Plating — Tin
Metallic Sleeve — Copper
Plating — Tin



Series	Wire Size Circular Mils [mm²]	Dimensions W Nom.	Dimensions L Nom.	Terminal Color	Wire Insulation Diameter Max.	Fits Tab Thk.	Part Numbers Loose Piece	Part Numbers Tape Mounted
.250	22-18	**.300** 7.62	**.819** 20.80	Red	**.150** 3.81	**.032** 0.81	696301-1	696301-2
	16-14	**.300** 7.62	**.819** 20.80	Blue	**.185** 4.70	**.032** 0.81	696302-1	696302-2
	16-14	**.300** 7.62	**.917** 23.29	Yellow	**.244** 6.20	**.032** 0.81	696303-1	696303-2

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Application Tooling

AMP-O-LECTRIC Model "G" Termination Machines

A totally new design of our most popular machine for bench-top operation. It features a quiet and highly-reliable direct motor drive, electronic controls for ease of setup and operation, and improved guarding and lighting for operator convenience and safety. All versions also include either manual or automatic precision adjustment for crimp height. For use with miniature style applicators only.

(Shown with optional Crimp Quality Monitor.)

Specifications

Weight — Approximately 240 lb [110 kg]

Height — 20 [508] without reel

Width — 18.7-25.3 [475-643] depending on type of applicator used

Depth — 21.5-28.1 [546-713] depending on type of applicator used

Electrical — 120 or 220 VAC, 50 or 60 Hz

Air — 90-110 psi [6.21-7.59 bar] when required for use with air-feed applicators

For complete information, request Catalog 65828.

AMP-3K/40 and AMP-5K/40 Terminating Machines

The AMP-3K/40 and AMP-5K/40 Terminators are designed for customers that require the increased output and quality of a semiautomatic machine at a competitive price. By incorporating the most commonly requested features as standard and offering a long list of optional equipment, these terminators offer flexibility to meet the specific needs of various applications at the lowest possible cost.

- 3,000 lb [1361 kg] max. crimp force (AMP-3K/40) 5,000 lb [2268 kg] max. crimp force (AMP-5K/40)
- Tool-less removal of applicators and guards
- Jog capability
- Quiet, fast operation — 80/76 dBa and cycle time less than 0.400 seconds
- Accepts Heavy Duty Mini style applicators
- Wide range of optional equipment such as tool-less precision crimp height adjust, batch counter, CQM capability and work light
- Order Catalog 1654856 for specs and part numbers

Specifications

Height — 20 [510] (without reel support)

Weight — Approx. 150 lb [68 kg]

Capacity — AMP-3K/40 — 3,000 lb [1361 kg] max. crimp force; AMP-5K/40 — 5,000 lb [2268 kg] max. crimp force

Noise — 76 dBa maximum at 3,000 lb [1361 kg] full capacity; 80 dBa maximum at 5,000 lb [2268 kg] full capacity

Electrical — 100-240 VAC, 50/60 Hz (6A) • Average <1 A at 120 VAC when used as a bench-top unit at 2 000 cycles per hour operating rate

Air — 90-100 psi [6.21-6.90 bar], 6 scfm [0.00282 m^3/s] (when required for use with air-feed applicators) *Note: Optional Air Feed Valve Assembly required.*

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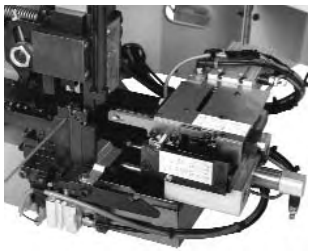
Application Tooling (Continued)

Optional Stripping Module for the AMP-3K/40, AMP-5K/40 and AMP-O-LECTRIC Model G



The combination of the Stripping Module with the AMP-O-LECTRIC Model G Terminator or the AMP 3-K/40, AMP 5-K/40 provides an economical, proficient method of stripping wire and crimping terminals on the same machine. Wires are stripped moments before crimping, meaning there is virtually no chance of damaging wire conductors during handling or storage. Once the wire is fed into the start sensor the Stripping Module does the rest, improving placement accuracy.

For more information, request Catalog 1309085.

Crimp Quality Monitor (CQM)

This 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.

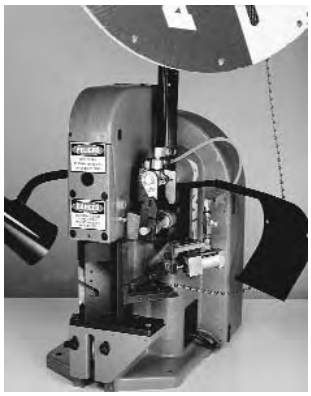
When used with AMP-O-LECTRIC Model "G" Termination Machines, the monitor is mounted to the machine. When used with AMPOMATOR CLS IV Lead Making Machines, it is integrated into the machine's operating system, with the information displayed on the machine's touch screen.

Specifications

Height — 4.5 [114]
Width — 8.5 [216]
Depth — 9 [229]
Electrical — 120 VAC, 50 or 60 Hz, or 220 VAC, 50 or 60 Hz
Printer Port — Serial Interface

For further information, request Catalog 82275.

AMP-O-LECTRIC Model "K" Termination Machines



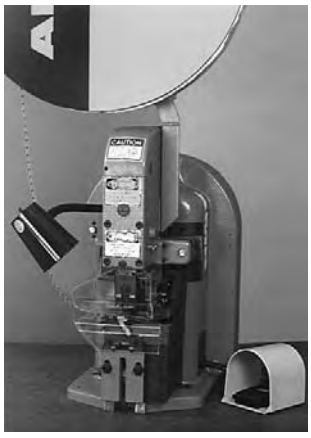
These machines are used with standard style applicators, generally to apply one size and type of terminal without the need for frequent changeovers of applicators or adjustment of crimp height. The basic model is Part Number 1-471273-2. Part Number 1-471273-3 is equipped with a mechanical feed assembly for applicators requiring this type of feed for advancing the terminal strip.

Specifications

Weight — Approximately 230 lb [104 kg]
Height — 24 [610] without reel
Width — 21 [533]
Depth — 20 [508]
Electrical — 120 VAC, 60 Hz, 6 A
Air — 90-110 psi [6.21-7.59 bar] when required for use with air-feed applicators

Application Tooling (Continued)

AMP-TAPETRONIC Machine, Part No. 69875



AMP-O-LECTRIC Model "K" Terminating Machine with a permanently-mounted applicator that accepts interchangeable die sets to apply a variety of tape-mounted terminals and splices. Many of the die sets can also be used in AMP-O-LECTRIC Terminating Machines with a tape applicator.

For more information, contact Tyco Electronics.

Modular Insertion System (MIS) Bench Machines, 217600 Series, 662820 Series (shown)

Bench machines for inserting a variety of products into pc boards. Uses the same interchangeable insertion heads as the Comp-U-Sertor II Machines. Series 217600 features a manually-operated X-Y positioning fixture and locator spotlight. The machine cycles when the board hole is placed on the anvil and both triggers on the dual handles attached to the X-Y fixture are depressed. Series 662820, without board fixturing, cycle automatically when the hole is properly located. A stabilizing disk over the anvil helps keep the board level.

Specifications

Width — 18 [457]

Depth — 24 [610]

Height — 18 [457]

Weight — 250 lb [113 kg]

Electrical — 120 to 220 VAC, 50 or 60 Hz (217600); 120 or 240 VAC, 60 Hz, single phase, 120 VA (662820)

Air — 80 psi [5.52 bar] min., 15 scfm [0.00708 m^3/s] min.

Insertable Area — 18 x 22 [457 x 559] max.

For more information, request Catalog 296059.

SDE Electric Terminator

The SDE Electric Terminator applies a broad range of products, in the 6 - 0.3 mm^2 (10-22 AWG). This small, bench top power unit offers many features found on more expensive models, and is well suited for low- to medium- volume bench production and harness assembly operations.

The simple, logical arrangement of control switches and connections provide easy set-up and require minimal training to enhance your productivity capability. The power unit is foot actuated, and includes a jog step position with available adjustment for various product types, and also a crimp height adjustment. Other features include a safety reverse switch, a safety lock foot pedal, and a cycle counter. The unit is compatible with all SDE Dies (refer to catalog #82276).

Specifications

Weight — 29 lb [13 kg]

Dimensions — 15.5 x 10 x 8 [390 x 260 x 200]

Power Supply — 220V/240V or 110V/120V

Power Consumption — max. 0.7 KVA

For more information, request Catalog 1654714.

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Application Tooling (Continued)

AMPOMATOR CLS IV+ Lead-Making Machines, 356500-1, -2

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.

Specifications

Width — 159 [4 040]

Depth — 68 [1 730]

Height — 86 [2 185] with 24 [610] dia. reel

Weight — 2 000 lb [907 kg]

Electrical — 220 VAC, 50 or 60 Hz, single phase, 25 A, with neutral and ground

Air — 90 psi [6.21 bar], 15 scfm [0.0071 m^3/s] sustained

Wire Range — 26-10 AWG [0.12-6 mm^2] stranded, 26-16 AWG [0.12-1.4 mm^2] solid

Lead Lengths — 3-90 [76.2-2 285], 90-1 000 [2 285-25 400] with long lead conveyors

For more information, request Catalog 124324, Video 198142 (NTSC), 199609 (PAL).

P300 Automatic Insertion Machine

Automatic machine equipped with an insertion tool (comprised of product-specific insertion head, anvil, and product feed mechanism). Stepper-motor driven X-Y table positions PCBs under insertion head. Surface Mount Equipment Manufacturers Association (SMEMA) compatible inline PCB Insertion Station for posts, tabs, receptacles or sockets. Stand-alone unit is field upgradeable to Pass Through. Mounts up to four pneumatic insertion heads. Modem diagnostics standard, vision system optional.

Specifications

Width — 57.5 [1,460]

Depth — 64.5 [1,640]

Height — 60 [1,520]

Weight — Depending on configuration

Electrical — 110 V, 60 Hz

Air — 87 psi [6 bar]

Insertable Area — 24 x 16 [600 x 400]

For more information, contact Tyco Electronics.

Application Tooling (Continued)

Micro Pneumatic System

The new micro-pneumatic power unit provides minimal weight and minimal tool size, with maximum production. The power unit is compatible with the small tool and adapter holders used in the 6-26 system. Only available in a hand actuated version. This unit and compatible heads will terminate 26-14 AWG products, with the exception of the SOLISTRAND head combination, which crimps 22-10 AWG combinations.

See Catalog 1654684 for more information.

Battery Crimp Tool Kit, 1725837-1

- Compatible with all SDE dies
- Completely portable (approx. 100 crimps per charge)
- Terminates wire range of 10-22 AWG (6 - .03mm^2)
- Weighs 3.46 lb [1.57kg] w/battery, 14 [360] long
- Kit includes tool, 2 batteries & charger
- Pressure sensitive, cycle control

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Application Tooling (Continued)

CERTI-CRIMP Straight Action Hand Tool (SAHT)

Our premium line of hand tools featuring ratchet control to help eliminate partial crimps. This style also features straight-line die closure, terminal locator and support, and insulation crimp adjustment. They are used to apply selected 110, 187, and 250 Series FASTON Terminals.

CERTI-CRIMP Double Action Hand Tool (DAHT)

The dies on these tools travel in an arc-like path. The tools feature ratchet control, a locator, and an insulation crimp adjustment pin. They are used to apply selected 250 Series FASTON Terminals.

TETRA-CRIMP Hand Tool Part Number 59824-1

Similar to DAHT, the dies travel in an arc-type path. The tool features ratchet control with emergency release, multiple color-coded crimping cavities, and a terminal locator and wire stop. It is used to apply PIDG FASTON Receptacles, part number series 6409xx only as shown on page 95 and 96.

Platform Style Die Hand Tool, Part Number 58078-3

This tool has the same frame configuration as the TETRA-CRIMP Hand Tool. The dies are interchangeable, and the terminal locator is adjustable. It is used to apply Ultra-Fast and Ultra-Fast Plus FASTON Terminals.

PRO-CRIMPER II Hand Tool

Using interchangeable dies, this mid-priced, commercial tool can crimp a vast array of AMP products. It also features ratchet control with emergency release. The new design is more durable, and requires dramatically less hand force. Currently, it can be used to apply selected FASTON Receptacles.

AMP Universal Handle, Part Numbers 465629-1 (Short) and 465629-2 (Long)

This tool with interchangeable tips is used to mate standard and Tab-Lok Flag FASTON Receptacles to tabs. It features an adjustable strap. The short tip holder is 1.87 [47.5], the long is 5.87 [149]. For further information, request Instruction Sheet 408-7141.

Model 626 Pneumatic Tool

This modular system consists of a hand- or foot-actuated power unit plus interchangeable tool holders, crimp head assemblies, and die sets, when applicable. It is light weight, and features an optional positive-cycle control that helps eliminate partial crimps. The tool can be easily held or bench mounted.

Specifications

Weight — 2.3-3.3 lb [1.0-1.5 kg]

Length — 11.6-12.9 [295-327]

Outside Diameter — 1.83 [46.5]

Grip Span — 2.19 [55.6] over button or handle

Air — 90-100 psi [6.21-6.89 bar], 11.4 in^3 [0.00018 m^3] displacement

Cycle Time — 0.7-0.8 sec (16-14 AWG [1.3-2 mm^2] PIDG Terminals)

For further information, request Catalog 124208.

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UK: 44-208-420-8341

Technical Documents

Various technical documents are available for your use:

Production Specifications describe technical performance, characteristics and verification tests. They are intended for the Design, Component and Quality Engineer.

108-1285	Ultra-Pod Fully Insulated FASTON Receptacles
108-1706	250/205 Srs FASTON PCB Receptacles
108-2000	.250 Hermetic
108-2002	.187 Modular FASTIN-FASTON
108-2017	Ultra-Fast FASTON Tabs
108-2043	Ultra-Fast FASTON Receptacles
108-2044	Ultra-Fast Plus FASTON Receptacles
108-2086	187 Srs AMPLIVAR FASTON Flag Receptacles
108-2215	Ultra-Pod Fully Insulated .187 Flag FASTON Receptacles
108-3017	Positive Lock Mark I
108-5126	.187 Positive Lock Mark II
108-5127	.250 Positive Lock Mark II

Application Specifications describe requirements for using the product in its intended application and/or crimping information. They are intended for the Packaging Design Engineer and the Machine Setup Person

114-1002	Pre-Insulated Diamond Grip (PIDG) FASTON Receptacle Contacts
114-2023	FASTIN-FASTON Receptacle and Tab Contacts, 187 Series
114-2025	FASTIN-FASTON Receptacle and Tab Contacts, 250 Series
114-2028	Flag Receptacle Contacts, .110 Series
114-2032	Reversible Flag, 250 Series
114-2036	FASTON Receptacle Contacts, All Series (110, 187, 205, 250 and 312)
114-2065	FASTIN-FASTON Receptacle Contacts, All Series (110, 187, 205, 250 and 312)
114-2070	AMPLIVAR FASTON Tab Contact
114-2074	Positive Lock Receptacles, Mark II and Mark III
114-2078	FASTON Tab-Lok Contacts, 187, 205 and 250 Series
114-2079	F-Crimp Flag Receptacle
114-2082	Piggyback Flag Tab, All Series
114-2097	High-temperature FASTON Tab
114-2123	Ultra-Fast, Ultra Fast Flag and Ultra-Fast Plus FASTON Terminals
114-2124	Ultra-Pod FASTON Fully Insulated Receptacles and Tabs
114-2126	Center Strip Flag FASTON
114-2144	AMPLIVAR Receptacles, All Series
114-2146	AMPLIVAR F-F Tabs
114-2152	187 Srs AMPLIVAR FASTON Flag Receptacles
114-2153	Positive Lock Mark I Receptacle Connectors, .250 Series
114-2155	187 Srs FASTON C-Crimp Receptacles
114-2156	250/205 Srs FASTON PCB Receptacles
114-35000	Wire Preparation and Crimp Inspection Guide

Instruction Sheets provide instruction for assembling or applying the product. They are intended for the Manufacturing Assembler or Operator.

Instruction Material covering operation, setup, maintenance, repair, etc. is included with each machine, tool or die set. If this material is required prior to receiving you tooling, call the Tyco Electronics Customer Service Hotline 800-722-1111 for the applicable document.

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Part Number Index

Note: This index lists all cataloged parts by base no. only. Complete part nos. (with prefixes and/or suffixes) are shown on the page(s) indicated.

Part Number Index (Continued)

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Engineering Notes

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Japan: 81-44-844-8013
UK: 44-208-420-8341

Americas

Argentina – Buenos Aires
Phone: +54-11-4733-2200
Fax: +54-11-4733-2250

Brasil – São Paulo
Phone: +55-11-3611-1311
Fax: +55-11-3611-0397

Canada – Markham
Phone: +905-475-6222
Fax: +905-474-5520
Product Information Center:
(Technical Support)
Phone: +905-470-4425
Fax: +905-474-5525

Colombia – Bogota
Phone: +57-1-240-9396
Fax: +57-1-660-0206

Mexico – Mexico City
Phone: +52-55-5-729-0425
Fax: +52-55-5-398-1430

United States – Harrisburg, PA
Phone: +717-564-0100
Fax: +717-986-7575
Product Information Center:
(Technical Support)
Phone: +800-522-6752
Fax: +717-986-7575

For Latin/South American Countries not shown
Phone: +57-1-240-9396
Fax: +57-1-660-0206

Asia/Pacific

Australia – Sydney
Phone: +61-2-9840-8200
Fax: +61-2-9899-5649
Product Information Center:
(Technical Support)
Phone: +61-2-9554-2600
Fax: +61-2-9502-2556

India – Bangalore
Phone: +91-80-841-0200
Fax: +91-80-841-0210

Indonesia – Jakarta
Phone: +6221-526-7852
Fax: +6221-526-7856

Japan – Kawasaki, Kanagawa
Phone: +81-44-844-8079
Fax: +81-44-844-8733
Product Information Center:
(Technical Support)
Phone: +81-44-844-8013
Fax: +81-44-812-3200
Raychem Products
Phone: +81-44-900-5102
Fax: +81-44-5025-5027

Korea – Seoul
Phone: +82-2-3274-0535
Fax: +82-2-3274-0524/0531

Malaysia – Selangor
Phone: +60-3-7053055
Fax: +60-3-7053066

New Zealand – Auckland
Phone: +64-9-634-4580
Fax: +64-9-634-4586

Philippines – Makati City
Phone: +632-867-8641
Fax: +632-867-8661

People's Republic of China
Hong Kong
Phone: +852-2735-1628
Fax: +852-2735-0243

Shanghai
Phone: +86-21-6485-0602
Fax: +86-21-6485-0728

Shunde
Phone: +86-765-775-1368
Fax: +86-765-775-2823

Singapore – Singapore
Phone: +65-4820-311
Fax: +65-4821-012
Raychem Products
Phone: +65-4866-151
Fax: +65-6545-514

Taiwan – Taipei
Phone: +886-2-2664-9977
Fax: +886-2-2664-9900

Thailand – Bangkok
Phone: +66-2-955-0500
Fax: +66-2-955-0505

Vietnam – Ho Chi Minh City
Phone: +84-8-8232-546/7
Fax: +84-8-8221-443

Europe/Middle East/Africa

Austria – Vienna
Phone: +43-190-560-0
Fax: +43-190-560-1333

Belgium – Kessel-Lo
Phone: +32-16-352-300
Fax: +32-16-352-352

Bulgaria – Sofia
Phone: +359-2-971-2152
Fax: +359-2-971-2153

Czech Republic – Kurim
Phone: +420-5-41-162-111
Fax: +420-5-41-162-223

Denmark – Viby J
Phone: +45-70-15-52-00
Fax: +45-86-29-51-33

Egypt – Cairo
Phone: +20-2-417-76-47
Fax: +20-2-419-23-34

Estonia – Tallinn
Phone: +372-65-05-474
Fax: +372-65-05-470

Finland – Helsinki
Phone: +358-95-12-34-20
Fax: +358-95-12-34-250

France –
Cergy-Pontoise
Phone: +33-1-3420-8888
Fax: +33-1-3420-8600
Product Information Center:
(Technical Support)
Phone: +33-1-3420-8943
Fax: +33-1-3420-8623

France
Tyco Electronics Export –
St Ouen L'Aumone
Phone: +33-1-3440-7200
Fax: +33-1-3440-7220 or
+33-1-3440-7230

Germany – Bensheim
Phone: +49-6251-133-0
Fax: +49-6251-133-1600
Product Information Center:
(Technical Support)
Phone: +49-6251-133-1999
Fax: +49-6251-133-1988

Germany – Langen
Phone: +49-6103-709-0
Fax: +49-6103-709-1223

Germany – Speyer
Phone: +49-6232-30-0
Fax: +49-6232-30-2243

Germany
HTS Division – Neunkirchen
Phone: +49-2247-305-0
Fax: +49-2247-305-122

Great Britain –
Stanmore Middlesex
Phone: +44-181-954-2356
Fax: +44-181-954-6234
Product Information Center:
(Technical Support)
Freephone GB: 0800-267-666
Phone: +44-141 810 8967…69
Fax: +44-141 810 8971
Great Britain – Dorcan, Swindon
Raychem Products
Phone: +44-1793-528171
Fax: +44-1793-572516

Greece – Athens
Phone: +30-1-9370-396/397
Fax: +30-1-9370-655

Hungary – Budapest
Phone: +36-1-289-1000
Fax: +36-1-289-1010

Ireland – Dublin
Phone: +353-1-820-3000
Fax: +353-1-820-9790

Israel – Yokneam
Phone: +972-4-959-0508
Fax: +972-4-959-0506

Italy – Collegno (Torino)
Phone: +39-011-4012-111
Fax: +39-011-4031-116

Lithuania – Vilnius
Phone: +370-5-21-31-402
Fax: +370-5-21-31-403

Netherlands – 's-Hertogenbosch
Phone: +31-73-6246-246
Fax: +31-73-6212-365
Product Information Center:
(Technical Support)
Phone: +31-73-6246-999
Fax: +31-73-6246-998

Norway – Nesbru
Phone: +47-66-77-88-99
Fax: +47-66-77-88-55

Poland – Warsaw
Phone: +48-22-45-76-700
Fax: +48-22-45-76-720

Romania – Bucharest
Phone: +40-1-311-3479+3596
Fax: +40-1-312-0574

Russia – Moscow
Phone: +7-095-926-55-06…09
Fax: +7-095-926-55-05

Russia – St. Petersburg
Phone: +7-812-325-30-83
Fax: +7-812-325-32-88

Scotland – Dundee
Madison Cable Products
Phone: +44-1382-508080
Fax: +44-1382-505060

Slovakia – Banská Bystrica
Phone: +421-48-415-20-11/12
Fax: +421-48-415-20-13

Slovenia – Ljubljana
Phone: +386-1561-3270
Fax: +386-1561-3240

South Africa – Port Elizabeth
Phone: +27-41-405-4500
Fax: +27-41-486-1314

Spain – Barcelona
Phone: +34-93-291-0330
Fax: +34-93-201-7879
Product Information Center:
(Technical Support):
Phone: +34-93-291-0330
Fax: +34-93-200-3779

Sweden – Upplands Väsby
Phone: +46-8-50-72-50-00
Fax: +46-8-50-72-50-01

Switzerland – Steinach
Phone: +41-71-447-0447
Fax: +41-71-447-0444

Turkey – Istanbul
Phone: +90-212-281-8181…3
+90-212-282-5130/5430
Fax: +90-212-281-8184

Ukraine – Kiev
Phone: +38-044-238-6908
Fax: +38-044-568-5740

82004–10M–SK–FP–5-06
Printed in the U.S.A.

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82004 Revised 07-2006 5M SK FP