

## 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 (UL) File No. E-66717
- Meets CSA C22.2, No. 153 specification for quick connect terminals; CSA Certified under **SP**∘ File No. LR 7189
- 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, TE provides a complete selection of terminating equipment from hand tools to automatic lead makers.

Ultra-Fast Fully Insulated FASTON Receptacles and Tabs

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Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in inches and millimeters unless otherwise specified ÚSA: +1 (800) 522-6752

Canada: +1 (905) 475-6222 Mexico/C. Am.: +52 (0) 55-1106-0800 Latin/S. Am.: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999

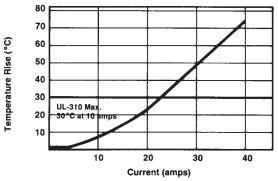


# Ultra-Fast Fully Insulated FASTON Receptacles and Tabs (Continued)

### **Test Specifications**

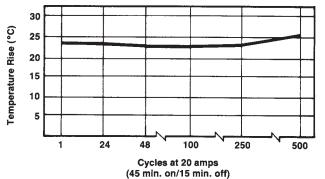
The following information and accompanying graphs are taken from TE Product Qualification Testing of Ultra-Fast FASTON product. Tests were conducted on representative production samples, and all values shown are averages of group results. The values shown are typical results and may vary due to differences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



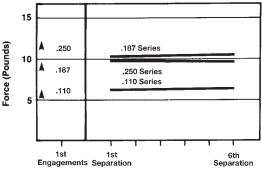


Maintaining a safe temperature rise during cyclic applications of excessive current is the toughest challenge for the crimp-thru-plastic concept. The ability of the Ultra-Fast FASTON product line to meet this goal sets it apart from other preinsulated terminations. TE's experience in crimp development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

Dimensions are shown for

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 maximum increase of 0.8°C from the 24th to the 500th cycle for one sample in the test group.

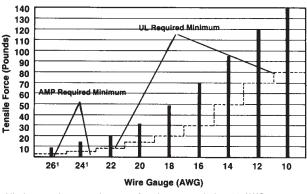




Number of Engagements/Separations

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.





<sup>&</sup>lt;sup>1</sup> UL does not have requirements for wire gauges below 22 AWG. **Note:** Minimum requirements are per TE 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

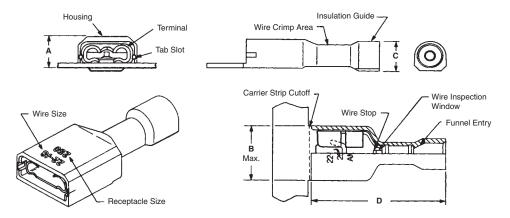


# Ultra-Fast Fully Insulated FASTON Receptacles and Tabs (Continued)

### **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			Dime	nsions			Terminal Base	Part Nu	umbers
Description	AWG	Dia. Max.	Α	В	С	D	Tab	Material	Strip	Loose Piece
	26-22	<b>.100</b> 2.54		<b>.275</b> 6.99		<b>.735</b> 18.67	<b>.020 x .110/.125</b> 0.51 x 2.79/3.18	Brass	7-520365-21	7-520366-21
							<b>.016 x .110/.125</b> 0.41 x 2.79/3.18	Brass	2-520080-21	2-520081-2
		<b>.120</b> 3.05		<b>.275</b> 6.99		<b>.735</b> 18.67	<b>.020 x .110/.125</b> 0.51 x 2.79/3.18	Brass	2-520083-2	2-520084-2
.110/.125 Series	22-18						<b>.032 x .110/.125</b> 0.81 x 2.79/3.18	Brass	2-520272-2 <sup>3</sup>	2-520273-2
		.230		.275			<b>.020 x .110/.125</b> 0.51 x 2.79/3.18	Brass	2-520306-2	_
		5.84	3.94	6.99	7.49	21.97	<b>.032 x .110/.125</b> 0.81 x 2.79/3.18	Brass	2-520310-2	_
	16-14	<b>.260</b> 6.60		<b>.275</b> 6.99	<b>.325</b> 8.26		<b>.020 x .110/.125</b> 0.51 x 2.79/3.18	Brass	3-520370-2 <sup>2</sup>	—
							.020 x .187	Brass	2-520181-23	2-520182-2
		.135	.165	.336	.200		0.51 x 4.75	Phos. Brz.	2-520181-4	
.110/.125 Series	22-18	3.43	4.19	8.53	5.08	21.72	<b>.032 x .187</b> 0.81 x 4.75	Brass	2-520193-2 <sup>3</sup>	2-520194-2
	22-10	.230	.165 .3				<b>.020 x .187</b> 0.51 x 4.75	Brass	2-520261-2 <sup>3</sup>	2-520262-2
		5.84	4.19	8.53	7.49	23.75	<b>.032 x .187</b> 0.81 x 4.75	Brass	2-520274-2	2-520275-2
Series		.160		.336			<b>.020 x .187</b> 0.51 x 4.75	Brass	3-350815-2	3-350816-2
	16-14	4.06	4.70	8.53	5.72	21.72	<b>.032 x .187</b> 0.81 x 4.75	Brass	3-520124-2 <sup>3</sup>	3-520125-2
	10-14	.260		.336			<b>.020 x .187</b> 0.51 x 4.75	Brass	3-520150-2	520365-21       7-520366-21         520080-21       2-520081-21         520083-2       2-520084-2         520272-23       2-520273-2         520306-2          520310-2          520370-22          520181-23       2-520182-2         520181-4          520261-23       2-520262-2         520274-2       2-520275-2         350815-2       3-350816-2         520124-23       3-520125-2         520150-2       3-520151-2         520276-23          521406-2          521308-2          521308-2          521308-2          521308-2          520183-4       2-520184-2         520183-4       2-520184-4         520263-4          350819-2       3-350820-2         520116-2       3-50020-2         520116-2       3-520117-2         520140-2       3-520117-2         520140-2       3-520141-2         520140-4
		6.60	4.70	8.53	8.26	23.75	<b>.032 x .187</b> 0.81 x 4.75	Brass	3-520276-2 <sup>3</sup>	_
	22-18	.135		.409			<b>.020 x .205</b> 0.81 x 5.21	Brass	2-521406-2	_
Series	5	3.43	4.95	10.39	5.08	21.72	<b>.032 x .205</b> 0.81 x 5.21	Brass	2-521308-2	_
		.135					.032 x .250	Brass	2-520183-2 <sup>3</sup>	
	22-18	3.43	4.95	10.39	5.08	21./2	0.81 x 6.35		2-520183-4	
	22 10	.230					.032 x .250	Brass	2-520263-2	2-520264-2
		5.84	4.95	10.39	7.49	23.75	0.81 x 6.35			_
		.160					.032 x .250	Brass	3-350819-2	
Series	16-14	4.06	4.95	Iss         Iss <thiss< th=""> <thiss< th=""> <thiss< th=""></thiss<></thiss<></thiss<>						
	10.17	<b>.260</b> 6.60		<b>.409</b> 10.39			<b>.032 x .250</b> 0.81 x 6.35	Brass	3-520140-2	3-520141-2
_	12-10		.250	.409	.388		.032 x .250 0.81 x 6.35	Phos. Brz. Brass	3-520140-4 4-520447-2 <sup>3</sup>	4-520448-2

<sup>1</sup> UL Recognized, CSA Certified.

<sup>2</sup> UL Recognized 8 AMPS Max. CSA Certified. <sup>3</sup> Available with black insulator — Part Number 9-XXXXXX-2.

Note: All part numbers are RoHS compliant.

Dimensions are shown for reference purposes only. Specifications subject to change.

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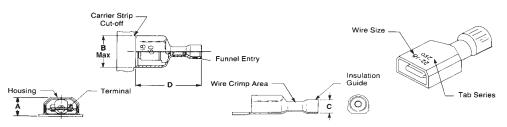


### Ultra-Fast Fully Insulated FASTON Receptacles and Tabs (Continued)

### 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

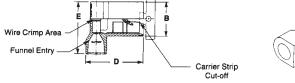


Description	Wire Range	Ins. Dia		Dimen	sions		Tab Te	erminal Base	Part	Numbers
Description	AWG	Max.	Α	В	С	D	Size	Material	Strip	Loose Piece
	22-18	<b>.135</b> 3.43	<b>.290</b> 7.37	<b>.522</b> 13.26	<b>.205</b> 5.21	<b>.855</b> 21.72	<b>.032 x .250</b> 0.81 x 6.35	Brass	2-520102-2	2-520103-2
.250	22-10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

### 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



250 22-18





Description	Wire Range <sup>1</sup>	Ins. Dia.		0	)imensi	ons		Mating	Terminal Base	Part I	Numbers
Description	AWG	Max.	Α	В	C	D	Ε	Tab	Material	Strip	Loose Piece
	22-18	.165	.187	.320	.235	.636	.515	<b>.020 x .187</b> 0.51 x 4.75		2-520334-2 <sup>2</sup>	2-520335-2
	22-10	4.19	4.75	8.13	5.97	16.15	13.08	<b>.032 x .187</b> 0.81 x 4.75		2-520336-2 <sup>2</sup>	2-520337-2
.187		.185	.187	.320	.255	.632	.515	<b>.020 x .187</b> 0.51 x 4.75		3-520338-2	3-520339-2
Series	16-14	4.70	4.75	8.13	6.48	16.05	13.08	<b>.032 x .187</b> 0.81 x 4.75		3-520340-2 <sup>2</sup>	—
	10-14	.260	.187	.320	.325	.668	.565	<b>.020 x .187</b> 0.51 x 4.75		3-520997-2	—
		6.60 4.75 8	8.13	8.26	16.97	14.35	<b>.032 x .187</b> 0.81 x 4.75		3-521247-2	—	
.205 Series	22-18	<b>.165</b> 4.19	<b>.187</b> 4.75	<b>.385</b> 9.78	<b>.235</b> 5.97	<b>.636</b> 16.15	<b>.580</b> 14.73	<b>.032 x .205</b> 0.81 x 5.21		2-521164-2	—
	22-18	<b>.165</b> 4.19	<b>.187</b> 4.75	<b>.385</b> 9.78	<b>.235</b> 5.97	<b>.636</b> 16.15	<b>.580</b> 14.73	<b>.032 x .250</b> 0.81 x 6.35		2-520128-2	2-520129-2
	22-10	<b>.230</b> 5.84	<b>.187</b> 4.75	<b>.385</b> 9.78	<b>.295</b> 7.49	<b>.665</b> 16.89	<b>.630</b> 16.00	<b>.032 x .250</b> 0.81 x 6.35		2-520856-2	_
.250 Series	16.14	<b>.185</b> 4.70	<b>.187</b> 4.75	<b>.385</b> 9.78	<b>.255</b> 6.48	<b>.632</b> 16.05	<b>.580</b> 14.73	<b>.032 x .250</b> 0.81 x 6.35		3-520132-2 <sup>2</sup>	3-520133-2
	16-14 —	<b>.260</b> 6.60	<b>.187</b> 4.75	<b>.385</b> 9.78	<b>.325</b> 8.26	<b>.668</b> 16.97	<b>.630</b> 16.00	<b>.032 x .250</b> 0.81 x 6.35		3-521013-2	

<sup>1</sup> Stranded wire only.

<sup>2</sup> Available with black insulator — Part Number 9-XXXXX-2.

Note: All part numbers are RoHS compliant.

Ultra-Fast Fully Insulated FASTON Receptacles and Tabs

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# **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**

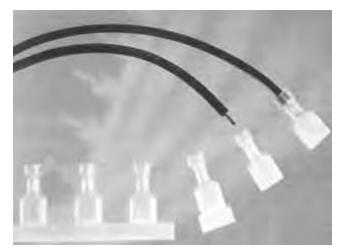
- Meets UL-310 specification for quick connect terminals; UL listed under File No. E-66717
- Meets CSA C22.2, No.153 specification for quick connect terminals; CSA certified under File No. LR 7189
- 600-volt application capability (1,000 volts for signs and fixtures)

Tested by TUV File No. E9071003 as suitable for end product certification to the following standards:

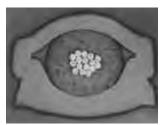
EN 60 950/09.87

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 Section

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, TE provides a complete selection of terminating equipment from hand tools to automatic lead makers.

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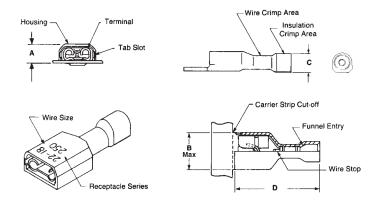


# Ultra-Fast Plus Fully Insulated FASTON Receptacles and Tabs (Continued)

### 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

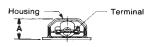


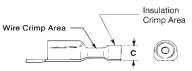
Description	Wire Range	Ins. Dia.		Dimen	sions		Mating	Terminal Base	e Part Numbers	
Description	AWG	Range	Α	в	С	D	Tab	Material	Strip	Loose Piece
.110/.125	22-18	.060120	.160	.275	.167	.735	<b>.020 x .110/.12</b> 0.51 x 2.79/3.18	Brass	2-520932-2	_
Series	22-10	1.52-3.05	4.06	6.99	4.24	18.67	.032 x .110/.125 0.81 x 2.79/3.18	r Brass	2-520979-2	_
	22-18	.060135	.165	.336	.200	.855	<b>.020 x .187</b> 0.51 x 4.75	Brass	2-520401-2	2-520409-2
.187	22-18	1.52-3.43	4.24	8.53	5.08	21.72	<b>.032 x .187</b> 0.81 x 4.75	Brass	2-520403-2	2-520411-2
Series	16-14	.090160	.185	.336	.225	.855	<b>.020 x .187</b> 0.51 x 4.75	Brass	3-520402-2	3-520410-2
	10-14	2.29-4.06	4.70	8.53	5.72	21.72	<b>.032 x .187</b> 0.81 x 4.75	Brass	3-520404-2	3-520412-2
.250	22-18	<b>.060135</b> 1.52-3.43	<b>.195</b> 4.95	<b>.409</b> 10.39	<b>.200</b> 5.08	<b>.855</b> 21.72	<b>.032 x .250</b> 0.81 x 6.35	Brass	2-520405-2	2-520407-2
.250 Series	16-14	<b>.090160</b> 2.29-4.06	<b>.195</b> 4.95	<b>.409</b> 10.39	<b>.225</b> 5.72	<b>.855</b> 21.72	<b>.032 x .250</b> 0.81 x 6.35	Brass	3-520406-2	3-520408-2

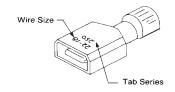
#### Ultra-Fast Plus Fully Insulated FASTON Tabs

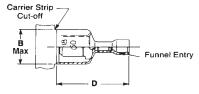
#### Material

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	Ins. Dia.		Dimen	sions		Mating	Terminal Base	Part Numbers	
Description	AWG	Range	Α	в	С	D	Tab	Material	Strip	Loose Piece
.187	00.10	.060135	.250	.488	.205	.793	<b>.020 x .187</b> 0.51 x 4.75	Brass	2-521360-2	_
Series	22-18	1.52-3.43	6.35	11.38	5.21	20.14	<b>.032 x .187</b> 0.81 x 4.75	Brass	2-521361-2	—
.250	22-18	<b>.060135</b> 1.52-3.43	<b>.290</b> 7.37	<b>.522</b> 13.26		<b>.855</b> 21.72	<b>.032 x .250</b> 0.81 x 6.35	Brass	2-521055-2	_
Series	16-14	<b>.090160</b> 2.29-4.06	<b>.290</b> 7.37	<b>.522</b> 13.26	<b>.230</b> 5.84	<b>.855</b> 21.72	<b>.032 x .250</b> 0.81 x 6.35	Brass	3-521057-2	_

Note: All part numbers are RoHS compliant.

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reference purposes only. Specifications subject to change.

Dimensions are shown for

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# **Ultra-Pod Fully Insulated FASTON Receptacles and Tabs**

### **Product Facts**

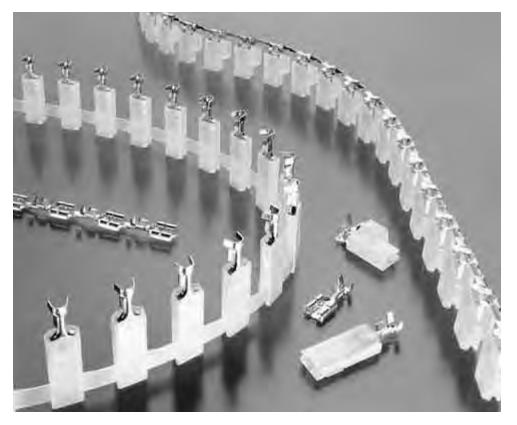
- Reduced insertion force
- Designed for correct lead-in of tab
- Mates with typical 110, 187 and 250 series tab styles including those with shoulders
- 110 series accepts 22-18 AWG [0.3–1 mm<sup>2</sup>], 187 series accepts 20-16 AWG [0.5–1.4mm<sup>2</sup>] wire and 250 series accepts 22-10 AWG [0.3–5 mm<sup>2</sup>] 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

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 downstroke 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 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, TE provides a complete selection of terminating equipment from bench press to automatic lead maker. Ultra-Pod Fully Insulated FASTON Receptacles

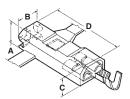
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# Ultra-Pod Fully Insulated FASTON Receptacles and Tabs (Continued)

### **Insulation Support**



Description	Wire	Ins. Dia.		Dime	nsions		Mating	UL 941	Color	Material	Part Numbers																
Description	Range	Range	Α	В	С	D	Tab	UL 94	COIOI	and Finish	Part Numbers																
							000	V-2	Natural	Brass	521228-1																
							<b>.020</b> 0.51	V-2	Inatural	Tin Plated Brass	521228-2																
110		000 100	454	004	005	005		V-0	Natural	Tin Plated Brass	521408-24																
.110 Series	22-18	Range         Range         A         B           22-18         .080120 2.03-3.05         .151 3.83         .222           20-16         .090130 2.29-3.30         .170 4.32         .293           18-16 or 2-18         (2) .105 Max.         .170 5.33         .293           22-18         .090130 2.29-3.30         .170 4.32         .293           18-14         .120170 3.05-4.32         .195 4.95         .370 9.40           18-14         .120170 3.05-4.32         .195 4.95         .370 9.40           18-14 or 2-18         (2) .105 Max.         .195 9.40         .370 4.95           18-14 or 2-18         (2) .105 Max.         .195 9.40         .370 4.95           18-14 or 2-18         (2) .105 Max.         .195 9.40         .370 4.95	.224 5.69	<b>.205</b> 5.21	<b>.805</b> 20.45		V-2	Natural	Brass	521436-14																	
							.032	V-2	Inatural	Tin Plated Brass	521436-2																
							0.81	V-0	Natural	Brass	521437-1 <sup>4</sup>																
								V-0	Inatural	Tin Plated Brass	521437-2 <sup>2,4</sup>																
								V-2	Natural	Brass	520973-1																
							.020	V-2	Inatural	Tin Plated Brass	520973-2																
							0.51	V-0	Natural	Brass	521225-1																
	20.16			.295	.200	.775		V-0	Inatural	Tin Plated Brass	521225-2																
	20-10	2.29-3.30	4.32	7.49	5.08	19.68		V 0	Netural	Brass	520982-1																
							.032	V-2	Natural	Tin Plated Brass	520982-2																
.187 Series							0.81	V-0	Notural	Brass	521284-1																
001100								V-0	Natural	Tin Plated Brass	521284-2																
										Brass	521293-1																
				<b>.295</b> 7.49	<b>.200</b> 5.08			V-2	Natural	Tip Distant Drass	521293-2																
	18-16 or	(2) <b>.105</b> Max.	.170			<b>.775</b> 19.68	<b>.020</b> 0.51			Tin Plated Brass	521995-24,5																
	2-10	2.07	5.55	7.49		19.00	0.51		Matural	Brass	521586-1																
								V-0	Natural	Tin Plated Brass	521586-2																
											NI	Brass	520988-1														
	00.10						.195	.370	.225	.945	.032	V-2	Natural	Tin Plated Brass	520988-2												
	22-18																								9.40	5.72	24.00
								V-0	Natural	Tin Plated Brass	521368-2																
																		Duese	521997-1 <sup>4,5</sup>								
								V-2	Natural	Brass	520963-1																
										Tin Plated Brass	520963-2																
		.120170	.195	.370	.225	.945	.032			Brass	521367-1																
	18-14			9.40	5.72	24.00	0.81	V-0	Natural	Tin Plated Brass	521367-2																
										Tin Plated Brass	521011-2 <sup>2</sup>																
.250 Series								V-2	Black		521011-1 <sup>2,3</sup>																
Selles										Nickel Plated Steel	521113-2 <sup>3</sup>																
										Brass	521637-1																
								V-2	Natural		521637-2																
	18-14 or	(2) .105 Max.	.195	.370	<b>.225</b> 5.72	.945	.032			Tin Plated Brass	521998-24,5																
	2-10	2.07	4.95	9.40	5.72	24.00	0.81			Brass	521632-1																
								V-0	Natural	Tin Plated Brass	521632-2																
										Brass	520974-1																
		130- 180	195	370	225	945	032	V-2	Natural	Tin Plated Brass	520974-2																
	14-10			9.40						Brass	521366-1																
			4.95	9.40				V-0	0 Natural	Tin Plated Brass	521366-2																

<sup>1</sup> Flammability rating of plastic material.

<sup>2</sup> 150°C rated nylon.

<sup>3</sup> UL recognized.

<sup>4</sup> No UL or CSA approvals.

<sup>5</sup> VDE certified to IEC 60695-2-11 Glow Wire temps. 650°C, 750°C, & 850°C.

Note: All part numbers are RoHS compliant.

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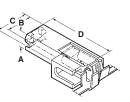
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Ultra-Pod Fully Insulated FASTON Receptacles



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

# **Flag Insulation Support**



Decemination	Wire	Ins. Dia.		Dimer	nsions		Mating	111 0/1	Onla	Material	David November 1
Description	Range	Range	Α	В	С	D	Tab	UL 941	Color	and Finish	Part Numbers
										Brass	521470-1 <sup>4</sup>
								V-2	Natural	Tin Plated Brass	521470-2 <sup>4</sup>
							<b>.020</b> 0.51			TIN Plated Brass	1969106-2 <sup>3,5</sup>
							0.51	V-0	Natural	Brass	521596-14
	22-18	.060110	.170	.295	.485	.680		V-0	Naturai	Tin Plated Brass	521596-24
	22-18	1.52-2.79	4.32	7.49	12.32	17.27		V 0	Notural	Brass	521598-1 <sup>3</sup>
							.032	V-2	Naturai	Tin Plated Brass	521598-2 <sup>3</sup>
							0.81	1/0	Notural	Brass	521600-14
								V-0	Naturai	Tin Plated Brass	521600-2 <sup>4</sup>
.187 <sup>–</sup> Series										Brass	521471-14
Series				<b>.295</b> 7.49	<b>.485</b> 12.32			V-2	Natural	Tip Distad Drass	521471-2 <sup>4</sup>
										TIN Plated brass	1969133-2 <sup>3,5</sup>
							0.01	V O	Notural	Brass	521597-14
	18-14 or	(2) .105 Max	.170			.680		V-0	Naturai	Tin Plated Brass	521597-24
	(2) 20 or (2) 18	(2) <b>.105</b> Max. 2.66 Max.	4.32			17.27				Brass	521599-14
	(2) 10							$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	521599-24		
									V-0         Natural         Tin Plated Brass         521597           Brass         521599         Brass         521599           V-2         Natural         Tin Plated Brass         521599           Tin Plated Brass         521599         1969107           V-0         Natural         Brass         521601           Tin Plated Brass         521601         106107           V-0         Natural         Brass         521601           V-2         Natural         Brass         521050	1969107-2 <sup>3,5</sup>	
			0.01	V-0 Natural	Brass	521601-14					
								V-0 Natur	Naturai	Tin Plated Brass	521601-24
								V 0	Notural	Brass	521050-1
	22-18	.050100	.200	.370	.585	.680	.032	V-2	Naturai	Tin Plated Brass	521050-2
	22-10	1.27-2.54	5.08	9.40	14.86	17.27	0.81	VO	Natural	Brass	521411-1
_								V-0	Naturai	Tin Plated Brass	521411-2
										Brass	1969109-1 <sup>3,5</sup>
									Natural	Tin Plated Brass	1969109-2 <sup>3,5</sup>
								V 0	Maturai	Brass	520971-1
.250	18-14	.110160	.200	.370	.585	.680	.032	V-2		Tin Plated Brass	520971-2
Series	18-14	2.79-4.06	5.08	9.40	14.86	17.27	0.81		Black	Tin Plated Brass	520971-4
								DIACK	Nickel Plated Steel	521087-1 <sup>3</sup>	
								V-0	Notur-1	Brass	521282-1
								v-0	Natural	Tin Plated Brass	521282-2
-								N/ 0	Notur-1	Brass	521112-1
	18-14 or	(2) <b>.105</b> Max.	.200	.370	.585	.680	.032	V-2	Natural	Tin Plated Brass	1969110-2 <sup>3,5</sup>
	(2) 20 or (2) 18	<sup>(2)</sup> 2.66 <sup>Max.</sup>	5.08	<b>.370</b> 9.40	<b>.585</b> 14.86			1	Notur-1	Brass	521633-1
	· / -							V-0	Natural	Tin Plated Brass	521633-2

<sup>•</sup>Flammability rating of plastic material. <sup>2</sup>UL pending for double wire terminations. <sup>3</sup>No UL or CSA approvals.

<sup>4</sup> No CSA approvals.

<sup>5</sup> VDE certified to IEC 60695-2-11 Glow Wire temps. 650°C, 750°C, & 850°C.

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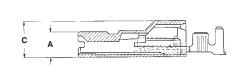
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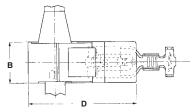
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# Ultra-Pod Fully Insulated FASTON Receptacles and Tabs (Continued)

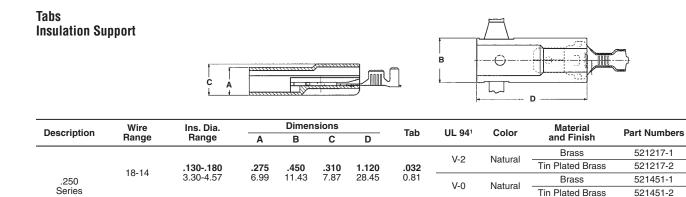
### **Positive Lock Insulation Support**





Description	Wire	Ins. Dia.		Dimen	sions		Mating	111 041	0.1	Material	Part Numbers
Description	Range	Range	Α	в	С	D	Tab	UL 941	Color	and Finish	Part Numbers
								V-2	Natural	Brass	521271-1 <sup>2</sup>
.187 Series		.110180           18-14         2.79-4.57	<b>.186</b> 4.72	<b>.307</b> 7.80	.265 6.73	<b>.812</b> 20.62	.020 0.51	V-2	Naturai	Tin Plated Brass	521271-2 <sup>2</sup>
			4.72	7.00				V-0	Natural	Tin Plated Brass	521212-2 <sup>2</sup>
									Matural	Brass	521213-1 <sup>2</sup>
.250	10.14	.110180	.205	.370		.950		V-2	Natural	Tin Plated Brass	521213-2 <sup>2</sup>
Series	18-14	2.79-4.57	5.21	9.40	6.22	24.13	0.81	1/0	N	Brass	521317-1 <sup>2</sup>
								V-0	Natural	Tin Plated Brass	521317-2 <sup>2</sup>

<sup>1</sup> Flammability rating of plastic material. <sup>2</sup> UL Recognized, CSA Certified



**.310** 7.87

**1.120** 28.45

.032

0.81

V-2

Natural

**.450** 11.43

.275

6.99

<sup>1</sup> Flammability rating of plastic material.

12-10

<sup>2</sup> No UL or CSA approvals

Note: All part numbers are RoHS compliant.

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.150-.200

3.81-5.08

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521227-12

521227-2<sup>2</sup>

Brass

Tin Plated Brass



# PIDG FASTON Receptacles and Tabs

### **Product Facts**

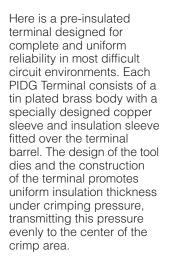
- Pre-insulated terminal designed for complete and uniform reliability in the most difficult circuit environment
- Consists of an unplated or tin plated brass body or a tin plated phosphor bronze body with a specially designed copper sleeve and insulation sleeve fitted over the terminal barrel
- Design 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 TE Mated Tool/Terminal Concept

- TE 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 precisionengineered from the finest hard-metal alloys
- Crimping pressure is controlled by a ratchet device on the hand tool or a corresponding precalibration in the crimping jaws of TE 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



TE 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 precalibration in the crimping

jaws of TE 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.

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### Temperature Rating: 105° C

Wire Range	R E66717 Recognized	Sertified LR7189
22-16	22-16 Stranded	0001/11
16-14	16-14 Stranded	<ul> <li>300 V Max.,</li> <li>105°C Max.<sup>1</sup></li> </ul>
12-10	12-10 Stranded	- 100 0 Max.

<sup>1</sup> UL and CSA — Nylon.

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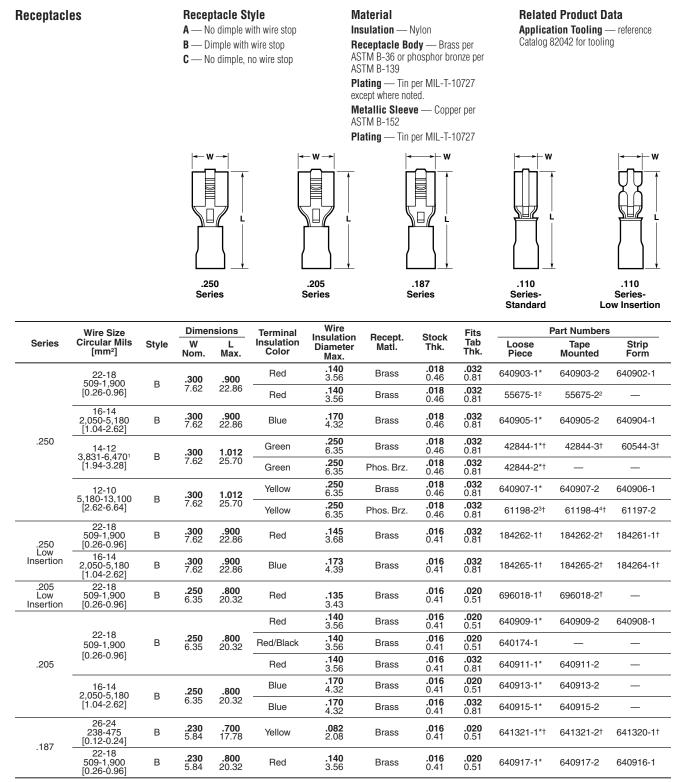
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<sup>1</sup> Wire range is limited as noted. <sup>2</sup> Unplated receptacle body. <sup>3</sup> Requires tool 90276-2 <sup>4</sup> Requires die 58541-1

Note: All part numbers are RoHS compliant.

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Available

PIDG FASTON Receptacles and Tabs



### Receptacles (Continued)

	Wire Size		Dime	nsions	Terminal	Wire Insulation	Recept.	Stock	Fits	-	Part Numbers	6
Series	Circular Mils [mm²]	Style	W Nom.	L Max.	Insulation Color	Diameter Max.	Mati.	Thk.	Tab Thk.	Loose Piece	Tape Mounted	Strip Form
	16-14 2.050-5.180	В	<b>.230</b> 5.84	<b>.800</b> 20.32	Blue	<b>.170</b> 4.32	Brass	<b>.016</b> 0.41	<b>.020</b> 0.51	640919-1*	640919-2	640918-1
.187	[1.04-2.62]	В	<b>.230</b> 5.84	<b>.900</b> 22.86	Blue	<b>.250</b> 6.35	Brass	<b>.016</b> 0.41	<b>.032</b> 0.81	696108-1 <sup>†</sup>	696108-2 <sup>†</sup>	_
	16-14 509-1,900 [0.26-0.96]	В	<b>.235</b> 5.84	<b>.800</b> 20.32	Blue	<b>.170</b> 4.32	Brass	<b>.016</b> 0.41	<b>.032</b> 0.81	184235-1†	184235-2†	_
.187 Low	22-18 509-1.900	В	.230	.800	Red	.140	Brass	.016	<b>.020</b> 0.51	696777-2	—	696776-1
Insertion	[0.26-0.96]	D	5.84	22.86	neu	3.68	DIass	0.41	<b>.032</b> 0.81	184268-1†	184268-2†	184267-1†
	00.40		<b>.148</b> 3.76	<b>.734</b> 18.64	Natural	<b>.110</b> 2.79	Brass	<b>.012</b> 0.30	<b>.016</b> 0.41	61048-1*†	61048-2 <sup>†</sup>	—
.110 Standard	22-18 509-1,900 [0.26-0.96]	В	<b>.148</b> 3.76	<b>.734</b> 18.64	Natural	<b>.110</b> 2.79	Brass	<b>.012</b> 0.30	<b>.020</b> 0.51	61060-1*†	61060-2†	61059-2†
	[0:20 0:00]		<b>.148</b> 3.76	<b>.734</b> 18.64	Natural	<b>.110</b> 2.79	Brass	<b>.012</b> 0.30	<b>.032</b> 0.81	60894-1*†	60894-2 <sup>†</sup>	60893-2 <sup>†</sup>
	26-24 238-475 [0.12-0.24]	А	<b>.160</b> 4.06	<b>.700</b> 17.78	Yellow	<b>.082</b> 2.08	Brass	<b>.016</b> 0.41	<b>.020</b> 0.51	641324-1†	641324-2†	_
			<b>.160</b> 4.06	<b>.796</b> 20.22	Red	<b>.140</b> 3.56	Brass	<b>.016</b> 0.41	<b>.012</b> 0.30	_	_	350871-1†
.110	22-18 509-1.900	А							<b>.016</b> 0.41	640921-1	640921-2	_
Low Insertion	[0.26-0.96]	A	<b>.160</b> 4.06	<b>.800</b> 20.32	Red	<b>.140</b> 3.56	Brass	<b>.016</b> 0.41	<b>.020</b> 0.51	640923-1*	640923-2	640922-1
									<b>.032</b> 0.81	640925-1*	640925-2	640924-1
	10.14	A	.160	.800	Blue	.170	Brass	.016	<b>.020</b> 0.51	640929-1*	640929-2	_
	2,050-5,180		4.06 20.32		Dide	4.32	DIass	0.41	<b>.032</b> 0.81	640931-1*	640931-2	_
	2,050-5,180 [1.04-2.62]	В	<b>.160</b> 4.06	<b>.800</b> 20.32	Blue	<b>.170</b> 4.32	Brass	<b>.016</b> 0.41	<b>.016</b> 0.41	640927-1	640927-2	_

<sup>†</sup>Not UL or CSA approved or listed.

\*Available in small packaging quantities.

### Tooling for Insulated FASTON Receptacles and Tabs - 26 to 10 AWG Wire Range

		Ī	ools for Tape Mounted Termination	S	Tools for Strip Form Terminations
Wire Size	Hand Tool	Tape Dies for 69875 AMP-TAPETRONIC No Applicator Required	Tape Dies for AMP-O-LECTRIC¹ 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 <sup>2</sup>
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 <sup>2</sup>
14-12	90246-1	90240-2	90240-2	90240-2	_
12-10	59824-1	59828-1	59828-1*	59828-1	466790-4 <sup>2</sup>

\*Only UL and CSA approved. 1AMP-O-LECTRIC model "K" 565435-5 uses applicator 567200-2.

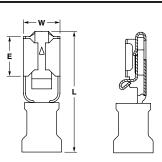
<sup>2</sup>Die included with applicator.

#### Note: All part numbers are RoHS compliant.

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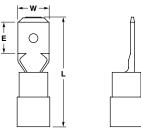
Positive Lock Receptacle Low Insertion Force with Locking Device



Description	Wire Range	Ins. Dia. Max.	Dimensions			Material	Part Number
			W	L	E	and Finish	Part Nulliber
For Tab .250 x .032	16-14	<b>.190</b> 4.83	<b>.362</b> 9.19	<b>.850</b> 21.59	<b>.315</b> 8.00	Tin Plated Brass	165536-1†

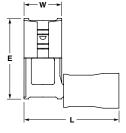
<sup>†</sup>Not UL or CSA approved or listed.

Tab



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

PIDG FASTON Flag Receptacles



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

Note: All part numbers are RoHS compliant.

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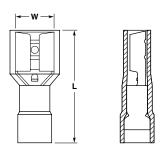
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PIDG FASTON Receptacles and Tabs

### **Fully Insulated Receptacles**

Insulation Sleeve — Nylon

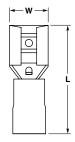


Description	Wire	Ins. Dia.	Dime	nsions	Material	Part Number
	Range	Range	W	L	and Finish	Fait Nulliber
For Tab .250 x .032	22-18	<b>.128</b> 3.25	<b>.375</b> 9.53	<b>.891</b> 22.63	Tin Plated Brass	696357-1
	16-14	<b>.165</b> 4.19	<b>.375</b> 9.53	<b>.881</b> 22.38	Tin Plated Brass	696366-1
	12-10	<b>.225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

### Budget Line PIDG 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		Terminel	Wire Insulation	Fits	Part Numbers	
		W Nom.	L Nom.	Terminal Color	Diameter Max.	Tab Thk.	Loose Piece	Tape Mounted
.250	22-18	<b>.300</b> 7.62	<b>.819</b> 20.80	Red	<b>.150</b> 3.81	<b>.032</b> 0.81	696301-1	696301-2
	16-14	<b>.300</b> 7.62	<b>.819</b> 20.80	Blue	<b>.185</b> 4.70	<b>.032</b> 0.81	696302-1	696302-2

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