Ultra-Fast Fully Insulated FASTON Receptacles and Tabs

Product Facts

₹тусо

One-piece Fully Insulated Premier Line FASTON Receptacle crimp helps prevent shock and short hazards

Electronics

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

Catalog 82004 Revised 12-10 Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

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

USA: +1 (800) 522-6752 Canada: +1 (905) 470-4425 Mexico/C. Am.: +52 (0) 55-1106-0814 South America: +55 (0) 11-2103-6000 Germany: +49 (0) 6251-133-1999 UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 China: +86 (0) 400-820-6015



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

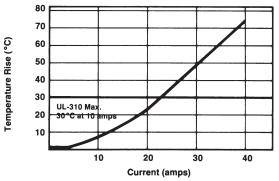
Test Specifications

Electronics

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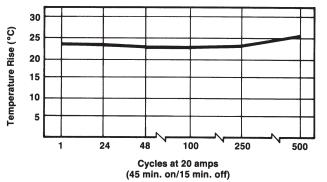
The following information and accompanying graphs are taken from Tyco Electronics Product Qualification Testing of Ultra-Fast FASTON product. Tests were conducted on representative production samples, and all values shown are averages of group results. The values shown are typical results and may vary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

millimeters unless otherwise

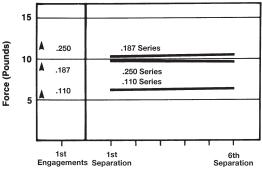
Catalog 82004 Revised 12-10

specified. Values in brackets www.tycoelectronics.com are metric equivalents

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

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.

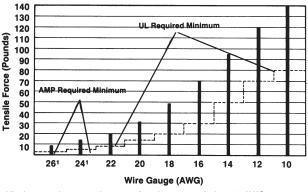


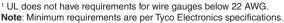


Number of Engagements/Separations

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.







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)

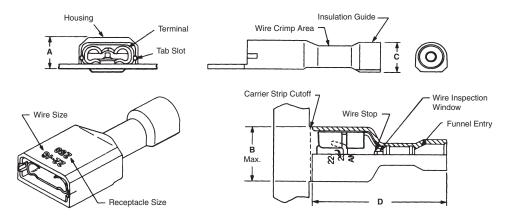
Ultra-Fast Fully Insulated FASTON Receptacles

Electronics

Material

₹тусо

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			Dimer	nsions			Terminal Base	Part Nu	umbers
Description	AWG	Dia. Max.	Α	В	С	D	Tab	Material	Strip	Loose Piece
	26-22	.100 2.54	.145 3.68	.275 6.99	.138 3.51		.020 x .110/.125 0.51 x 2.79/3.18	Brass	7-520365-21	7-520366-21
							.016 x .110/.125 0.41 x 2.79/3.18	Brass	2-520080-21	2-520081-2 ¹
		.120 3.05		.275 6.99		.735 18.67	.020 x .110/.125 0.51 x 2.79/3.18	Brass	2-520083-2	2-520084-2
.110/.125 Series	22-18						.032 x .110/.125 0.81 x 2.79/3.18	Brass	2-520272-2 ³	2-520273-2
		.230		.275			.020 x .110/.125 0.51 x 2.79/3.18	Brass	2-520306-2	_
		5.84	3.94	6.99	7.49	21.97	.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		.020 x .110/.125 0.51 x 2.79/3.18	Brass	3-520370-2 ²	
							.020 x .187	Brass	2-520181-2 ³	2-520182-2
		.135	.165	.336	.200	.855	0.51 x 4.75	Phos. Brz.	2-520181-4	
	22-18	3.43	4.19	8.53	5.08	21.72	.032 x .187 0.81 x 4.75	Brass	2-520193-2 ³	2-520194-2
	22-10	.230		.336			.020 x .187 0.51 x 4.75	Brass	2-520261-2 ³	2-520262-2
.187		5.84	4.19	8.53	7.49	23.75	.032 x .187 0.81 x 4.75	Brass	2-520274-2	2-520275-2
Series		.160		.336			.020 x .187 0.51 x 4.75	Brass	3-350815-2	3-350816-2
	16-14	4.06	4.70	8.53	5.72	21.72	.032 x .187 0.81 x 4.75	Brass	3-520124-2 ³	3-520125-2
	10 14	.260		.336			.020 x .187 0.51 x 4.75	Brass	3-520150-2	3-520151-2
		6.60	4.70	8.53	8.26	23.75	.032 x .187 0.81 x 4.75	Brass	3-520276-2 ³	_
.205	22-18	.135		.409			.020 x .205 0.81 x 5.21	Brass	2-521406-2	_
Series	LL IU	3.43	4.95	10.39	5.08	21.72	.032 x .205 0.81 x 5.21	Brass	2-521308-2	_
		.135		.409			.032 x .250	Brass	2-520183-2 ³	2-520184-2
	22-18	3.43	4.95	10.39	5.08	21.72	0.81 x 6.35	Phos. Brz.	2-520183-4	2-520184-4
	LL 10	.230		.409			.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	Phos. Brz.		_
.250		.160		.409			.032 x .250	Brass	3-350819-2	3-350820-2
Series	16-14	4.06	4.95	10.39	5.72	21.72	0.81 x 6.35	Phos. Brz.	3-520116-2	3-520117-2
	10-14	.260 6.60		.409 10.39			.032 x .250 0.81 x 6.35	Brass	3-520140-2	3-520141-2
	12-10		.250	.409 10.39	.388	.935	.032 x .250 0.81 x 6.35	Phos. Brz. Brass	3-520140-4 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.

Note: All part numbers are RoHS compliant.

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

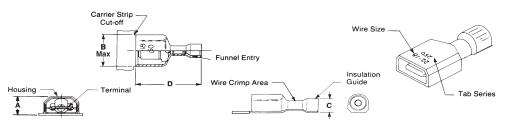
Ultra-Fast Fully Insulated FASTON Tabs

Electronics

Material

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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

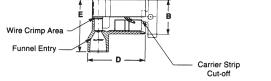


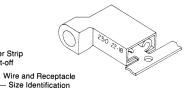
Description	Wire Range	Ins. Dia		Dimen	sions		Tab Te	erminal Base	e Part	Numbers
Description	AWG	Max.	Α	В	С	D	Size	Material	Strip	Loose Piece
	22-18	.135 3.43	.290 7.37	.522 13.26	.205 5.21	.855 21.72	.032 x .250 0.81 x 6.35	Brass	2-520102-2	2-520103-2
.250	22-10	.230 5.84	.290 7.37	.522 13.26	.295 7.49	.935 23.75	.032 x. 250 0.81 x 6.35	Brass	2-521144-2	2-521192-2
Series	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
	10-14	.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		.935 23.75	.032 x .250 0.81 x 6.35	Brass	4-521097-2	4-521098-2
.187	22-18	.135	.250	.448	.205	.793	.020 x .187 0.51 x 4.75	Brass	2-521102-2	2-521103-2
Series		3.43	6.35	11.38	5.21	20.14	.032 x .187 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







Description	Wire Range ¹	Ins. Dia.		0)imensi	ons		Mating	Terminal Base	Part	Numbers
Description	AWG	Max.	Α	В	C	D	Ε	Tab	Material	Strip	Loose Piece
	22-18	.165	.187	.320	.235	.636	.515	.020 x .187 0.51 x 4.75		2-520334-2 ²	2-520335-2
	22-10	4.19	4.75	8.13	5.97	16.15	13.08	.032 x .187 0.81 x 4.75		2-520336-2 ²	2-520337-2
.187		.185	.187	.320	.255	.632	.515	.020 x .187 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	.032 x .187 0.81 x 4.75		3-520340-2 ²	—
	10-14	.260	.187	.320	.325	.668	.565	.020 x .187 0.51 x 4.75		3-520997-2	—
		6.60	4.75	8.13	8.26	16.97	14.35	.032 x .187 0.81 x 4.75		3-521247-2	_
.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		2-521164-2	—
	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		2-520128-2	2-520129-2
	22-10	.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		2-520856-2	—
.250 Series	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		3-520132-2 ²	3-520133-2
	10-14	.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		3-521013-2	_

250 22-18

1 Stranded wire only.

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

Note: All part numbers are RoHS compliant.

92

Catalog 82004 Revised 12-10

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millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are in inches and

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Ultra-Fast Plus Fully Insulated FASTON Receptacles and Tabs

Product Facts

₹тусо

 One-piece fully insulated premier line FASTON receptacle with insulation crimp helps prevent shock and short hazards

Electronics

- 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

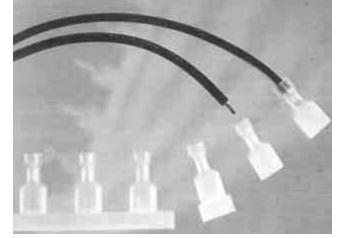
- Meets UL-310 specification for quick connect terminals; UL listed under File No. E-66717
- Meets CSA C22.2, No.153 specification for quick connect terminals; CSA certified under File No. LR 7189
- 600-volt application capability (1,000 volts for signs and fixtures)

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

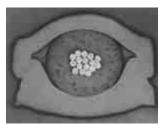
EN 60 950/09.87

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, Tyco Electronics provides a complete selection of terminating equipment from hand tools to automatic lead makers. Ultra-Fast Plus Fully Insulated FASTON Receptacles and Tabs

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

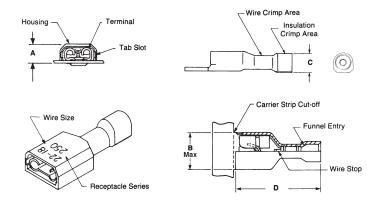
Ultra-Fast Plus Fully Insulated FASTON Receptacles

Électronics

Material

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

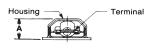


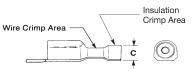
Description	Wire Range	Ins. Dia.		Dimen	sions		Mating	Terminal Base	Part N	umbers
Description	AWG	Range	Α	в	С	D	Tab	Material	Strip	Loose Piece
.110/.125	22-18	.060120	.160	.275	.167	.735	.020 x .110/.125 0.51 x 2.79/3.18	Brass	2-520932-2	_
Series	22-10	1.52-3.05	4.06	6.99	4.24	18.67	.032 x .110/.125 0.81 x 2.79/3.18	r Brass	2-520979-2	_
	22-18	.060135	.165	.336	.200	.855	.020 x .187 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	.032 x .187 0.81 x 4.75	Brass	2-520403-2	2-520411-2
Series	16-14	.090160	.185	.336	.225	.855	.020 x .187 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	.032 x .187 0.81 x 4.75	Brass	3-520404-2	3-520412-2
.250	22-18	.060135 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
Series	16-14	.090160 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

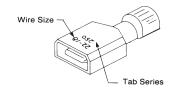
Ultra-Fast Plus Fully Insulated FASTON Tabs

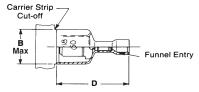
Material

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

Note: All part numbers are RoHS compliant.

94

Catalog 82004 Revised 12-10

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millimeters unless otherwise re specified. Values in brackets are metric equivalents.

Dimensions are in inches and

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Ultra-Pod Fully Insulated FASTON Receptacles and Tabs

Product Facts

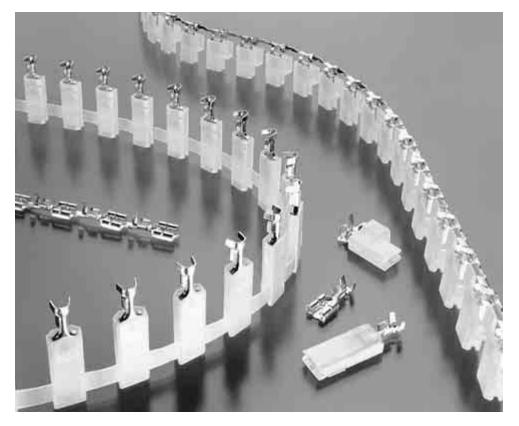
- Reduced insertion force
- Designed for correct lead-in of tab
- Mates with typical 110, 187 and 250 series tab styles including those with shoulders
- 110 series accepts 22-18 AWG [0.3–1 mm²], 187 series accepts 20-16 AWG [0.5–1.4mm²] wire and 250 series accepts 22-10 AWG [0.3–5 mm²] wire
- Visual 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
- erwriters Inc., 17 JU
- 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, Tyco Electronics provides a complete selection of terminating equipment from bench press to automatic lead maker.

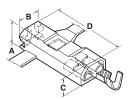
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Ultra-Pod Fully Insulated FASTON Receptacles

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

Insulation Support



Description	Wire	Ins. Dia.		Dime	nsions		Mating	UL 941	Color	Material	Part Number
Description	Range	Range	Α	В	С	D	Tab	UL 94	Color	and Finish	Part Number
							000	V-2	Natural	Brass	521228-1
							.020 0.51	• 2	Natural	Tin Plated Brass	521228-2
		000 100	454		005			V-0	Natural	Tin Plated Brass	521408-24
.110 Series	22-18	.080120 2.03-3.05	.151 3.83	.224 5.69	.205 5.21	.805 20.45		V-2	Natural	Brass	521436-14
							.032	V-Z	Ivaturai	Tin Plated Brass	521436-2
							0.81	V-0	Natural	Brass	521437-14
								V-O	Ivaturai	Tin Plated Brass	521437-2 ^{2,4}
								V-2	Natural	Brass	520973-1
							.020	V-Z	Ivaturai	Tin Plated Brass	520973-2
							0.51	V-0	Natural	Brass	521225-1
	20-16	.090130	.170	.295	.200	.775		V-0	Maturai	Tin Plated Brass	521225-2
	20-10	2.29-3.30	4.32	7.49	5.08	19.68		V-2	Natural	Brass	520982-1
107							.032	V-2	Matural	Tin Plated Brass	520982-2
.187 Series							0.81	V-0	Natural	Brass	521284-1
001100								V-0	Maturai	Tin Plated Brass	521284-2
										Brass	521293-1
	10.10	405	470					V-2	Natural	Tin Plated Brass	521293-2
	18-16 or 2-18	(2) .105 Max.	.170 5.33	.295 7.49	.200 5.08	.775 19.68	.020 0.51			TIT Flated Drass	521995-24,5
	210	2.07	0.00	7.40	0.00	10.00	0.01	V-0	Natural	Brass	521586-1
								V-0	Matural	Tin Plated Brass	521586-2
								V-2	Matural	Brass	520988-1
	22-18	.090130	.195	.370	.225	.945	.032	V-2	Natural	Tin Plated Brass	520988-2
	22-10	2.29-3.30	4.95	9.40	5.72	24.00	0.81	V-0	Natural	Brass	521368-1
								v-0	Matural	Tin Plated Brass	521368-2
										Broop	521997-1 ^{4,5}
								V-2	Natural	Brass	520963-1
										Tin Plated Brass	520963-2
	18-14	.120170	.195	.370	.225	.945	.032	V-0	Matural	Brass	521367-1
	18-14	3.05-4.32	4.95	9.40	5.72	24.00	0.81	V-0	Natural	Tin Plated Brass	521367-2
										Tin Plated Brass	521011-2 ²
.250 Series								V-2	Black	Niekal Distad Steel	521011-1 ^{2,3}
Genes										Nickel Plated Steel	521113-2 ³
										Brass	521637-1
						- <i>i</i> -		V-2	Natural	Tin Plotod Proce	521637-2
	18-14 or 2-18	(2) 105 Max.	.195 4.95	.370 9.40	.225 5.72	.945 24.00	.032 0.81			Tin Plated Brass	521998-24,5
	2-10	2.07	4.55	3.40	5.72	24.00	0.01		Notice	Brass	521632-1
								V-0	Natural	Tin Plated Brass	521632-2
								N/ 0	National I	Brass	520974-1
	44.40	.130180	.195	.370	.225	.945	.032	V-2	Natural	Tin Plated Brass	520974-2
	14-10	3.30-4.57	4.95	9.40	5.72	24.00	0.81	1/0	Nisterio I	Brass	521366-1
								V-0	Natural	Tin Plated Brass	521366-2

¹ Flammability rating of plastic material.

² 150°C rated nylon.

³ UL recognized.

⁴ No UL or CSA approvals.

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

Note: All part numbers are RoHS compliant.

96

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Ultra-Pod Fully Insulated FASTON Receptacles

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

Flag Insulatio	on Support			~	C B A		D				
	Wire	Ins. Dia.		Dime	nsions		Mating			Material	
Description	Range	Range	Α	В	С	D	Tab	UL 941	Color	and Finish	Part Numbers
										Brass	521470-1 ⁴
								V-2	Natural	Tip Distad Drass	521470-2 ⁴
							.020 0.51			Tin Plated Brass	1969106-23,5
							0.51		N	Brass	521596-14
		.060110	.170	.295	.485	.680		V-0	Natural	Tin Plated Brass	521596-24
	22-18	1.52-2.79	4.32	7.49	12.32	17.27				Brass	521598-1 ³
							.032	V-2 Natural Tin Plated Brass V-0 Natural Brass Tin Plated Brass		521598-2 ³	
							0.81			Brass	521600-1 ⁴
								V-0	Natural	Tin Plated Brass	521600-2 ⁴
.187 - Series									V-2 Natural		521471-1 ⁴
Series								V-2	Natural	T: 01 1 1 0	521471-2 ⁴
							.020	Tin Plated Bras		Tin Plated Brass	1969133-23,5
							0.51		Brass	521597-14	
	18-14 or	(a) .105	.170	.295	.485	.680		V-0	Natural	Tin Plated Brass	521597-2 ⁴
	(2) 20 or	(2) .105 Max. 2.66 Max.	.170 4.32	.295 7.49	.485 12.32	17.27				Brass	521599-14
	(2) 18							V-2	Natural	T: 01 1 1 0	521599-2 ⁴
							.032 0.81			Tin Plated Brass	1969107-23,5
							0.01		N	Brass	521601-14
								V-0	Natural	Tin Plated Brass	521601-2 ⁴
									N	Brass	521050-1
	00.10	.050100	.200	.370	.585	.680	.032	V-2	Natural	Tin Plated Brass	521050-2
	22-18	1.27-2.54	5.08	9.40	14.86	17.27	0.81		National	Brass	521411-1
								V-0	Natural	Tin Plated Brass	521411-2
_										Brass	1969109-1 ^{3,5}
									Matural	Tin Plated Brass	1969109-2 ^{3,5}
								N 0	Natural	Brass	520971-1
.250		.110160	.200	.370	.585	.680	.032	V-2		Tin Plated Brass	520971-2
Series		2.79-4.06	5.08	9.40	14.86	17.27	0.81		Disali	Tin Plated Brass	520971-4
									Black	Nickel Plated Steel	521087-1 ³
									Ni-ture 1	Brass	521282-1
								V-0	Natural	Tin Plated Brass	521282-2
_								N/ 0	Ni-ture 1	Brass	521112-1
	18-14 or		.200	.370	.585	.680	.032	V-2	Natural	Tin Plated Brass	1969110-2 ^{3,5}
	(2) 20 or (2) 18	(2) .105 Max. 2.66 Max.	5.08	9.40	14.86	17.27	0.81	14.0	Nature 1	Brass	521633-1
	(-) · -							V-0	Natural	Tin Plated Brass	521633-2

Flammability rating of plastic material. ²UL pending for double wire terminations. ³No UL or CSA approvals. ⁴ No CSA approvals.

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

Catalog 82004 Revised 12-10

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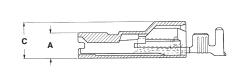
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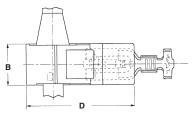
Ultra-Pod Fully Insulated FASTON Receptacles

97

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

Positive Lock Insulation Support





Description	Wire	Ins. Dia.		Dimen	sions		Mating	UL 941	Color	Material	Part Numbers
Description	Range	Range	Α	В	С	D	Tab	UL 941	Color	and Finish	Part Numbers
								V-2	Natural	Brass	521271-1 ²
.187 Series	18-14	.110180 2.79-4.57	.186 4.72	.307 7.80	.265 6.73	.812 20.62	.020 0.51	V-2	Natural	Tin Plated Brass	521271-2 ²
Genes		2.75 4.07	4.72	7.00	0.75	20.02	0.01	V-0	Natural	Tin Plated Brass	521212-2 ²
								VO	Netural	Brass	521213-1 ²
.250	10.14	.110180	.205	.370	.245	.950	.032	V-2	Natural	Tin Plated Brass	521213-2 ²
Series	18-14	2.79-4.57	5.21	9.40	6.22	24.13	0.81	1/0	N l = tr m = 1	Brass	521317-1 ²
								V-0	Natural	Tin Plated Brass	521317-2 ²

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

Tabs **Insulation Support** в \ominus D Wire Range Ins. Dia. Range Dimensions Material Description Tab UL 941 Color and Finish Α в С D Brass V-2 Natural

	18-14	.130180	.275	.450	.310	1.120	.032			Tin Plated Brass	521217-2
.250	10-14	3.30-4.57	6.99	11.43	7.87	28.45	0.81	V-0	Natural	Brass	521451-1
Series								v-0	Naturai	Tin Plated Brass	521451-2
	12-10	.150200	.275	.450	.310	1.120	.032	V O	Natural	Brass	521227-1 ²
	12-10	3.81-5.08	6.99	11.43	7.87	28.45	0.81	V-2	Natural	Tin Plated Brass	521227-2 ²

¹ Flammability rating of plastic material.

² No UL or CSA approvals

Note: All part numbers are RoHS compliant.

98

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Part Numbers

521217-1

PIDG FASTON Receptacles and Tabs

Product Facts

₹ Тусо

Pre-insulated terminal designed for complete and uniform reliability in the most difficult circuit environment

Electronics

- 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 Tvco 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 precisionengineered from the finest hard-metal allovs
- Crimping pressure is controlled by a ratchet device on the hand tool or a corresponding precalibration 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 Tyco Electronics terminal designed for compression crimping complete and uniform produces crimps for a reliability in most difficult given size wire and terminal circuit environments. Each that are precisely alike PIDG Terminal consists of a in appearance and tin plated brass body with a performance. This is a calculated result made specially designed copper sleeve and insulation sleeve possible by designing the fitted over the terminal terminal and the crimping barrel. The design of the tool tool as precisely matched dies and the construction devices. The dies are of the terminal promotes precision-engineered from uniform insulation thickness the finest hard-metal alloys. under crimping pressure, Crimping pressure is transmitting this pressure controlled by a ratchet evenly to the center of the device on the hand tool or a corresponding precalibration 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	REcognized	Sertified LR7189
22-16	22-16 Stranded	0001/11/
16-14	16-14 Stranded	 300 V Max., 105°C Max.¹
12-10	12-10 Stranded	- 100 O Max.

¹ UL and CSA — Nylon.

crimp area.

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Receptacles and Tabs PIDG FASTON

.205



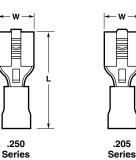


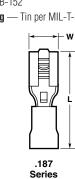
B — Dimple with wire stop C — No dimple, no wire stop

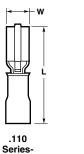
Material Insulation — Nylon Receptacle Body — Brass per ASTM B-36 or phosphor bronze per ASTM B-139 Plating — Tin per MIL-T-10727 except where noted. Metallic Sleeve — Copper per ASTM B-152 Plating — Tin per MIL-T-10727



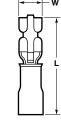
Application Tooling — reference Catalog 82042 for tooling







Standard



.110 Series-Low Insertion

	Wire Size		Dimer	nsions	Terminal	Wire Insulation	Desert	Stock	Fits	F	Part Numbers	
Series	Circular Mils [mm²]	Style	W Nom.	L Max.	Insulation Color	Diameter Max.	Recept. Matl.	Thk.	Tab Thk.	Loose Piece	Tape Mounted	Strip Form
	22-18 509-1.900	В	.300	.900	Red	.140 3.56	Brass	.018 0.46	.032 0.81	640903-1*	640903-2	640902-1
	[0.26-0.96]	В	7.62	22.86	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]	В	.300 7.62	.900 22.86	Blue	.170 4.32	Brass	.018 0.46	.032 0.81	640905-1*	640905-2	640904-1
.250	14-12 3.831-6.4701	В	.300	1.012	Green	.250 6.35	Brass	.018 0.46	.032 0.81	42844-1*†	42844-3†	60544-3†
	[1.94-3.28]	В	7.62	25.70	Green	.250 6.35	Phos. Brz.	.018 0.46	.032 0.81	42844-2*†	—	—
	12-10 5.180-13.100	в	.300	1.012	Yellow	.250 6.35	Brass	.018 0.46	.032 0.81	640907-1*	640907-2	640906-1
	[2.62-6.64]	В	7.62	25.70	Yellow	.250 6.35	Phos. Brz.	.018 0.46	.032 0.81	61198-2 ^{3†}	61198-4 ^{4†}	61197-2
.250	22-18 509-1,900 [0.26-0.96]	В	.300 7.62	.900 22.86	Red	.145 3.68	Brass	.016 0.41	.032 0.81	184262-1†	184262-2†	184261-1†
Low Insertion	16-14 2,050-5,180 [1.04-2.62]	В	.300 7.62	.900 22.86	Blue	.173 4.39	Brass	.016 0.41	.032 0.81	184265-1†	184265-2†	184264-1†
.205 Low Insertion	22-18 509-1,900 [0.26-0.96]	В	.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
	22-18 509-1,900	В	.250 6.35	.800 20.32	Red/Black	.140 3.56	Brass	.016 0.41	.020 0.51	640174-1	_	_
.205	[0.26-0.96]				Red	.140 3.56	Brass	.016 0.41	.032 0.81	640911-1*	640911-2	_
	16-14 2.050-5.180	В	.250	.800	Blue	.170 4.32	Brass	.016 0.41	.020 0.51	640913-1*	640913-2	—
	[1.04-2.62]	В	6.35	20.32	Blue	.170 4.32	Brass	.016 0.41	.032 0.81	640915-1*	640915-2	—
.187	26-24 238-475 [0.12-0.24]	В	.230 5.84	.700 17.78	Yellow	.082 2.08	Brass	.016 0.41	.020 0.51	641321-1*†	641321-2†	641320-1†
.107	22-18 509-1,900 [0.26-0.96]	В	.230 5.84	.800 20.32	Red	.140 3.56	Brass	.016 0.41	.020 0.51	640917-1*	640917-2	640916-1

PIDG FASTON Receptacles and Tabs

[†] 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 58541-1

Note: All part numbers are RoHS compliant.

100

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Receptacles (Continued)

	Wire Size		Dimer	nsions	Terminal	Wire Insulation	Pesant	Stock	Fits	1	Part Numbers	
Series	Circular Mils [mm²]	Style	W Nom.	L Max.	Insulation Color	Diameter Max.	Recept. Mati.	Thk.	Tab Thk.	Loose Piece	Tape Mounted	Strip Form
	16-14 2.050-5.180	В	.230 5.84	.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.020 0.51	640919-1*	640919-2	640918-1
.187	[1.04-2.62]	В	.230 5.84	.900 22.86	Blue	.250 6.35	Brass	.016 0.41	.032 0.81	696108-1†	696108-2 [†]	_
	16-14 509-1,900 [0.26-0.96]	В	.235 5.84	.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.032 0.81	184235-1†	184235-2†	_
.187 Low	22-18 509-1.900	в	.230	.800	Red	.140	Brass	.016	.020 0.51	696777-2	—	696776-1
Insertion	[0.26-0.96]	D	5.84	22.86	neu	3.68	DI835	0.41	.032 0.81	184268-1†	184268-2†	184267-1†
	00.40		.148 3.76	.734 18.64	Natural	.110 2.79	Brass	.012 0.30	.016 0.41	61048-1*†	61048-2†	—
.110 Standard	22-18 509-1,900 [0.26-0.96]	В	.148 3.76	.734 18.64	Natural	.110 2.79	Brass	.012 0.30	.020 0.51	61060-1*†	61060-2†	61059-2 [†]
	[0.20 0.00]		.148 3.76	. 734 18.64	Natural	.110 2.79	Brass	.012 0.30	.032 0.81	60894-1*†	60894-2†	60893-2 [†]
	26-24 238-475 [0.12-0.24]	А	.160 4.06	.700 17.78	Yellow	.082 2.08	Brass	.016 0.41	.020 0.51	641324-1†	641324-2†	_
			.160 4.06	.796 20.22	Red	.140 3.56	Brass	.016 0.41	.012 0.30	_	_	350871-1†
.110	22-18 509-1.900	А							.016 0.41	640921-1	640921-2	_
Low Insertion	[0.26-0.96]	A	.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
	10.14	A	.160	.800	Blue	.170	Brass	.016	.020 0.51	640929-1*	640929-2	_
	16-14 2,050-5,180 [1.04-2.62]		4.06	20.32	Dide	4.32	Did55	0.41	.032 0.81	640931-1*	640931-2	_
	[1.07 2.02]	В	.160 4.06	.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.016 0.41	640927-1	640927-2	_

[†]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

		T	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 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. 1AMP-O-LECTRIC model "K" 565435-5 uses applicator 567200-2.

²Die included with applicator.

Note: All part numbers are RoHS compliant.

Catalog	82004
Revised	12-10

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

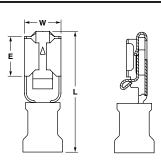
Dimensions are shown for reference purposes only. Specifications subject to change.

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PIDG FASTON Receptacles and Tabs

Positive Lock Receptacle Low Insertion Force with Locking Device

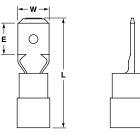
₹ Tyco Electronics



Description	Wire	Ins. Dia. Dimensions Max. W L E		Material	Part Number		
Description	Range			L	Е	and Finish	Fait 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†

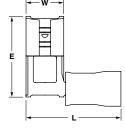
[†]Not UL or CSA approved or listed.

Tab



Description	Wire	Ins. Dia.	ns. Dia. Dimensions			Material	Part Number
Description	Range	Max.	W	L	Е	and Finish	Part Number
	22-18	.157 3.99	.250 6.35	.866 22.00	.300 7.62	Tin Plated Brass	696362-1
For Receptacle .250 x .032	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 FASTON Flag Receptacles



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

Note: All part numbers are RoHS compliant.

102

Catalog 82004 Revised 12-10

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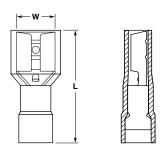
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Fully Insulated Receptacles

Insulation Sleeve — Nylon

₹ Tyco Electronics

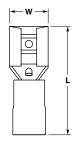


Description	Wire	Ins. Dia.	Dime	nsions	Material	Part Number	
Description	Range	Range	W	L	and Finish	Part Number	
	22-18	.128 3.25	.375 9.53	.891 22.63	Tin Plated Brass	696357-1	
For Tab .250 x .032	16-14	.165 4.19	.375 9.53	.881 22.38	Tin Plated Brass	696366-1	
	12-10	.225 5.72	.375 9.53	.998 25.35	Tin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

Budget Line PIDG FASTON Receptacles

Material

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



Series	Wire Size	Dimensions		Terminel	Wire Insulation	Fits	Part Numbers	
	Circular Mils [mm ²]	W Nom.	L Nom.	Terminal Color	Diameter Max.	Tab Thk.	Loose Piece	Tape Mounted
050	22-18	.300 7.62	.819 20.80	Red	.150 3.81	.032 0.81	696301-1	696301-2
.250	16-14	.300 7.62	.819 20.80	Blue	.185 4.70	.032 0.81	696302-1	696302-2

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NOLE: A	iii part	numbers	are	RUND	compliant.

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