

Products for Industrial Applications





FASTON Receptacles

Product Facts

- Straight, right-angle and receptacle and tab combinations available
- Receptacles available for 6.3, 4.8 and 2.8 mm tab
- Receptacles mate with 0.5 and 0.8 mm thick tabs
- **■** Low insertion force receptacles available

Materials and Finish

Contacts:

Brass, phosphor bronze and steel base material. Tin, silver and nickel plated products available.

Housinas:

Polyamide, polycarbonate, polyethylene UL94V-0 and UL94V-2.

Performance Data

Current Rating:

20A max with 2.5 mm² wire size. For steel-nickel plated version use 16A max with 2.5 mm² wire size.

Technical Documents Application Specifications:

114-20023	FASTON 6.3 mm
	(.250 Srs)
114-20081	FASTON 4.8 mm
	(.187 Srs)
114-20088	FASTON Flag
	6.3 mm (.250 Srs

Product Specifications:

FASTON 2.8, 4.8,
6.3 mm (.110,
.187, .250 Srs)
FASTON LIF
6.3 mm (.250 Srs)
FASTON LIF
4.8 mm (.187 Srs)

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

Mating Tab

(6.3, 4.8, 2.8mm width)

Wire Orientation Straight or Flag

Temperature/Environment

- Base metal

- Plating requirements

Insulator required

- Pre-insulated (see PIDG FASTON, **Ultra-Pod FASTON and** Ultra-Fast FASTON)
- Housing required

Agency Approvals UL/CSA and VDE

Part Numbers available

Special Application

- (Stright/Flag)
- Reversible Flags
- Printed Circuit Board

- Piggyback



Size 6.3 mm Receptacles (.250 Series)

Straight Receptacles

Size 6.3 mm (.250 Sei





A - Standard Series

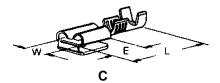
B - Low Insertion Force

Style	Wire Range	Insulation Dia	Tab Thk	Material	Part Number		Dimensions	3
•	mm²	mm	mm	and Finish	-	W	L	Е
				Brass	280000-7			
				Brass-Tin Plated	280000-6			
	0.3 -0.8	2.3-3.3	0.8	Ph. Bronze	140760-4	7.6	19.1	7.7
	0.3 -0.6	2.3-3.3	0.6	Ph. Bronze-Tin Plated	140760-2	7.0	19.1	1.1
				Ph. Bronze-Silver Plated	140760-3			
				Steel-Nickel Plated	160389-3			
				Brass	5-160432-3			
				Brass-Tin Plated	5-160432-4			
				Brass-Silver Plated	5-160432-7			
	0.5-1.5	2.3-3.3	0.8	Ph. Bronze	6-160432-4	7.6	19.1	7.7
				Ph. Bronze-Tin Plated	6-160432-0			
				Steel-Nickel Plated	6-160432-3			
Α				Nickel Silver	160807-2			
Α				Brass	2-160256-1	280001-9 2-160256-2 160256-7 160256-5 7.6 19.1		
			0.8	Brass-Tin Plated	280001-9		19.1	
		3.0-4.3		Brass-Tin Plated	2-160256-2			
				Brass-Silver Plated	4-160256-7			
	1.0-2.5			Ph. Bronze	4-160256-5			7.7
				Ph. Bronze-Tin Plated	3-160256-1			
				Ph. Bronze-Silver Plated	4-160256-6			
				Steel-Nickel Plated	4-160256-2			
				Nickel Silver	160808-2			
				Brass	180363-1			
	4.0-6.0	3.8-5.1	0.8	Brass-Tin Plated	180363-2	7.6	19.3	7.8
	4.0-0.0	3.0-3.1	0.0	Ph. Bronze	2-160301-9	7.0	19.5	7.0
				Ph. Bronze-Tin Plated	1-160301-9			
				Brass	100495-1			
	0.5-1.5	2.3-3.3	8.0	Brass-Tin Plated	100495-2			
D				Ph. Bronze-Tin Plated	100495-4	7.6	19.1	7.7
D				Brass-Tin Plated	100570-2	0.1	19.1	1.1
В	1.0-2.5	3.0-4.3	8.0	Ph. Bronze-Tin Plated	100605-7			
				Steel-Nickel Plated	63674-1			

Related to DIN 46247

Receptacle and Tab Combinations

Size 6.3 mm (.250 Series)



Style	Wire Range	Insulation Dia	Tab Thk	Material	Part Number		;	
	mm ²	mm	mm	and Finish		W	L	Е
	0.3 -0.8	1.5-2.8	0.8	Brass	61988-1	7.6	19.6	7.7
	0.5 -0.6	1.5-2.0		Brass-Tin Plated	61988-2	7.0	19.0	7.7
С			0.8	Brass	160739-1		20.1	
C	0.8-2.5	3.0-4.3		Brass-Tin Plated	160739-2	7.6		7.7
	0.0-2.5	3.0-4.3		Ph. Bronze-Tin Plated	160739-4	7.0		1.1
				Steel-Nickel Plated	160739-6			

Related to DIN 46345

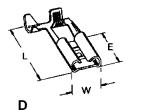
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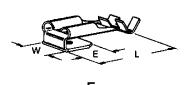


Size 6.3 mm Receptacles (.250 Series)

Flag Receptacles

Size 6.3 mm (.250 Series)





Style	Wire Range	Insulation Dia	Tab Thk	Material	Part Number		Dimensions	3
	mm ²	mm	mm	and Finish		W	L	E
				Brass	280050-1			
				Brass-Tin Plated	280050-2			
	0.5 -1.5	2.3-3.3	8.0	Ph. Bronze	280050-4	7.6	15.5	7.6
				Ph. Bronze-Tin Plated	280050-7			
				Steel-Nickel Plated	280050-3			
D				Brass	180464-1			
				Brass-Tin Plated	180464-2			
	1.0-2.5	2.4-3.8	0.8	Brass-Silver Plated	180464-9	7.6	15.5	7.6
	1.0-2.5	2.4-3.0	0.0	Ph. Bronze	2-180464-4	7.0	13.5	7.0
				Ph. Bronze-Tin Plated	180464-5			
				Steel-Nickel Plated	63963-1			
E	0.8 -2.5	3.0-4.3	0.8	Brass	151321-1	7.6	16.0	7.6
	0.0 -2.0	3.0-4.3	0.0	Brass-Tin Plated	151321-2	7.0	5 16.0	7.0

Related to DIN 46346 form A (D Style)



Size 4.8 mm Receptacles (.187 Series)

Straight Receptacles

Size 4.8 mm (.187 Series)





A - Standard Series

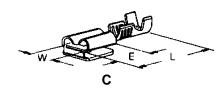
B - Low Insertion Force

Style	Wire Range	Insulation Dia	Tab Thk	Material	Part Number		Dimensions	3
	mm²	mm	mm	and Finish	_	W	L	Е
				Brass	6-160430-6			
	0.5-1.5	2.3-3.3	0.8	Brass-Tin Plated	5-160430-7	5.6	15.0	6.3
	0.5-1.5	2.3-3.3	0.6	Ph. Bronze-Tin Plated	5-160430-6	5.0	15.0	
				Steel-Nickel Plated	5-160430-4		5.6 15.0	
				Brass	5-160429-1			
Α	1.0-2.5	3.0-4.3	Ph. Bronze-Tin Plated 5-160429-6 Steel-Nickel Plated 5-160429-4	Brass-Tin Plated	5-160429-2	5.6	15.0	6.3
	1.0-2.5			Ph. Bronze-Tin Plated	5-160429-6	3.0	13.0	0.3
A .				Brass	5-160433-1			
	0.5-1.5	2.3-3.3	0.5	Brass-Tin Plated	5-160433-6	5.6	15.0	6.3
	0.5-1.5	2.3-3.3	0.5	Ph. Bronze-Tin Plated	6-160433-5	5.0	15.0	0.3
				Steel-Nickel Plated	5-160433-4			
	1.0-2.5	3.0-4.3	0.5	Brass-Tin Plated	5-160431-2	5.6	15.0	6.3
В	0.5-1.5	2.3-3.3	0.8	Brass-Tin Plated	100494-2	5.6	15.0	6.3
ь	0.5-1.5	2.3-3.3	0.5	Brass-Tin Plated	100651-2	5.0	13.0	6.3

Related to DIN 46247

Receptacle and Tab Combinations

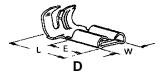
Size 4.8 mm (.187 Series)



Style	Wire Range	Insulation Dia	Tab Thk	Material	Part Number		Dimensions	5
	mm²	mm	mm	and Finish		W	L	E
			0.8	Brass	63646-1			
	0.5-1.5	2.3-3.3	0.0	Brass-Tin Plated	63646-2	5.7	15.6	5.7
С			0.5	Brass	62026-1	5.1		5.7
				Brass-Tin Plated	62026-2			
	1.0-2.5	2.8-4.0	0.5	Brass-Tin Plated	1217151-1	5.7	15.6	5.7

Flag Receptacles

Size 4.8 mm (.187 Series)



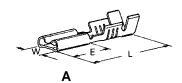
Style	Wire Range	Insulation Dia	Tab Thk Material		Part Number	Dimensions		
	mm²	mm	mm	and Finish		W	L	E
	0.5-1.5	2.8-4.3	0.8	Brass	150699-1	5.6	13.5	6.3
Ь	0.5-1.5	2.0-4.3	0.6	Brass-Tin Plated	150699-2	5.0	13.5	0.5

25.4mm = 1 inch

Size 2.8 mm Receptacles (.110 Series)

Straight Receptacles

Size 2.8 mm (.110 Series)

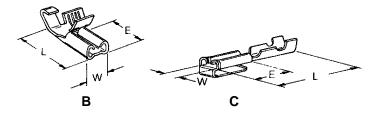


Style	Wire Range	Insulation Dia	Tab Thk	Material	Part Number		Dimensions	3
-	mm ²	mm	mm	and Finish	-	W	L	Е
	0.05-0.15	0.8-1.3	0.5	Brass Brass-Tin Plated	160597-1	3.7	14.0	6.3
			0.5	Brass-Tin Plated Brass-Tin Plated	160597-4 160666-5	2.7	11.7	4.0
	0.15-0.35	0.9-1.6	0.5	Brass	160772-1	3.7	11.7	4.0
	0.15-0.55	0.9-1.0	0.8	Brass-Tin Plated		3.7	14.0	6.3
	0.00.0.05	4045	0.5		160772-3	0.7	40.4	
	0.20-0.35	1.0-1.5	0.5	Brass-Tin Plated	140716-2	3.7	16.1	6.3
			0.5	Brass	150500-1			
	0.20-0.56	2.0-3.0		Brass-Tin Plated	150500-2	3.7	15.4	6.3
			8.0	Brass	150545-1	• • • •		
				Brass-Tin Plated	150545-2			
			0.5	Brass	5-160316-1			
	0.3-0.5	1.3-2.0	0.5	Brass-Tin Plated	5-160316-2	3.7	14.0	6.3
Α		1.0 2.0	0.8	Brass	5-160303-1	3.1	14.0	0.3
A			0.6	Brass-Tin Plated	5-160303-2			
	0.3-0.8	.8 1.5-2.5	0.5	Brass	140717-1	3.7	16.1	6.3
	0.3-0.6	1.5-2.5	0.5	Brass-Tin Plated	140717-2	3.1	10.1	0.3
	0240	1.2-2.5	0.0	Brass	140825-1	2.7	10.1	6.0
	0.3-1.0	1.2-2.5	8.0	Brass-Tin Plated	140825-2	3.7	16.1	6.3
			0.5	Brass	160484-1			
	0.5-1.0	2.0-3.0	0.5	Brass-Tin Plated	160484-4	2.7	110	6.0
	0.5-1.0	2.0-3.0		Brass	5-160555-1	3.7	14.0	6.3
			8.0	Brass-Tin Plated	5-160555-2			
			0.5	Brass	180437-1			
	0.5-1.5	1 5 0 0	0.5	Brass-Tin Plated	180437-2	2.7	140	6.3
	0.5-1.5	1.5-2.8		Brass	180423-1	3.7	14.0	6.3
			8.0	Brass-Tin Plated	180423-2			

Related to DIN 46247

Flag Receptacle & Receptacle and Tab Combinations

Size 2.8 mm (.110 Series)

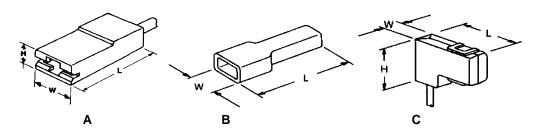


Style	Wire Range	Insulation Dia	Tab Thk	Material	Part Number		Dimensions	3										
	mm²	mm	mm	and Finish	_	W	L	E										
			0.5	Brass	141352-1													
В	0200	3-0.8 1.7-2.6	0.5	Brass-Tin Plated	141352-2	3.8	11.7	4.6										
	0.3-0.6		0.8	Brass	141352-3	5.0		4.0										
				Brass-Tin Plated	141352-4													
		4505	1.5-2.5	1 5 2 5	4505	4505	4 5 0 5	4505	4505	4505	4505	4505	0.5	Brass	62003-1			
C	0200	1.5-2.5	0.5	Brass-Tin Plated	62003-2	3.8	16.0	6.3										
С	0.3-0.6	0.3-0.8 ————————————————————————————————————	0.8	Brass	63961-1	3.0		0.3										
		2.0-3.0	0.6	Brass-Tin Plated	1217145-1													



FASTON Housings

Housings & Insulation Sleeves for FASTON Receptacles



Style	Series	Insulation Dia	Material	UL 94	Color	Note	Part Number	Di	mensio	ons
		mm (max)						W	L	Н
		3.1	Polyamide	-	Natural	-	926410-1	5.0	18.0	5.0
		3.2	Polyamide	-	Natural	-	925387-1	5.0	20.0	5.0
	2.8	3.2	Polycarbonate	V0	Natural	-	925387-2	5.0	20.0	5.0
	2.0	3.6	Polyamide	V2	Natural	-	1-480417-0	5.8	20.0	5.7
		3.0	Folyanniue	V2	Black	-	1-480417-1	5.6	20.0	5.7
		-	Polyamide	V2	Natural	-	141628-2	5.8	20.8	3.4
_	4.8		Polyamide	V2	Natural	-	1-480435-0	7.8	19.7	5.5
				V2	Natural	-	280232-0			
				V2	Red	-	280232-1	9.0	25.3	4.8
Α				V2	Black	-	280232-5	9.0	25.5	4.0
			•	V0	Natural	-	280232-6			
			Dolyomido	V2	Natural	-	926539-1			
	6.3	3.3 4.8	Polyamide	V2	Red	-	926539-2			
				V2	Black	-	926539-3		24.4	
				V2	Brown	-	926539-7	9.2		6.0
				V2	Natural	140° Max Temp.	1-926539-6			
				V2	Natural	170° Max Temp.	1-926539-7			
			PBT	V0	Black	140° Max Temp.	926539-5			
		6.7	Polyamide	V2	Natural	-	280233-0	8.9	25.4	-
	2.8	2.1	Polyethylene	-	Natural	-	735052-0	5.2	18.5	3.2
	4.8	2.5	Soft Vinyl Chloride	-	-	-	1-170823-4	5.8	20.0	2.2
			Delendede e	-	Natural	-	2-180930-0	0.0	00.5	
В		2.5	Polyethylene	-	Black	-	2-180930-5	9.0	22.5	5.0
В	6.3		Polyamide	-	Natural	-	180460-0	9.0	22.8	5.0
	6.3		Dalvathulana	-	Natural	-	1-925017-0			
		3.0	Polyethylene	-	Black	-	1-925017-5	9.0	21.6	5.0
			Polyprophylene	-	Natural	-	3-925017-0			
	4.8	4.5	Polyamide	V2	Natural	for Tab-Lok Flag FASTON	1-480487-2	5.8	10.9	8.1
			•	V2	Natural	-	180984-0			
•			,	V2	Red	-	180984-1			
С	6.3	3.3	Polyamide	V2	Black	-	180984-5	5.6	18.5	14.2
				V0	Natural	-	8-180984-0			
			•	V0	Black	-	8-180984-1			



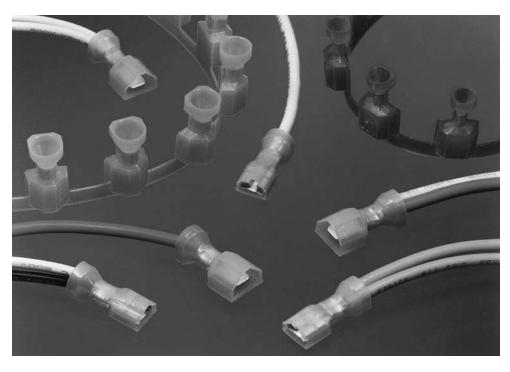
Ultra-Fast Fully Insulated FASTON Receptacles and Tabs

Product Facts

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

Performance Capabilities

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



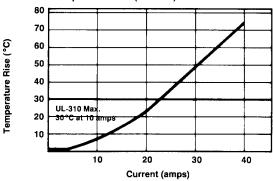


Ultra-Fast Fully Insulated FASTON Receptacles and Tabs (Continued)

Test Specifications

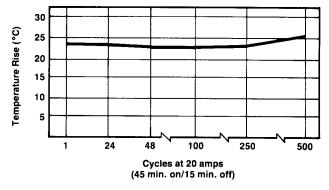
The following information and accompanying graphs are taken from AMP Product Qualification Testing of Ultra-Fast FASTON product. Tests were conducted on representative production samples, and all values shown are averages of group results. The values shown are typical results and may vary due to differences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

Current vs. Temperature Rise (16 AWG)



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

Current Cycling vs. Temperature Rise (16 AWG)



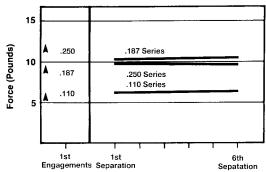
applications of excessive current is the toughest challenge for the crimp-thru-plastic concept. The ability of the Ultra-Fast FASTON product line to meet this goal sets it apart from other preinsulated terminations. Tyco Electronics' experience in crimp development results in a termination that exhibits stable heating characteristics

which are well within the safety requirements of the

Maintaining a safe temperature rise during cyclic

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.

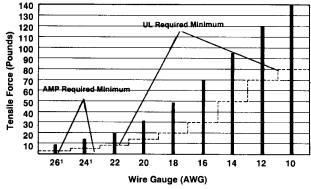
Engagement/Separation



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.

Crimp Tensile



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

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

industry.

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

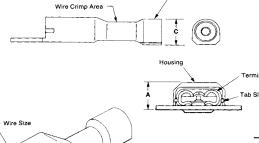
Terminal — Tin-plated, copper alloy

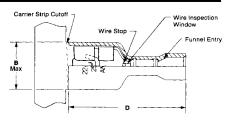
Color Code (Translucent)

Violet — 26-22 AWG **Red** — 22-18 AWG

Blue — 16-14 AWG

Yellow — 12-10 AWG





	Wire Hange AWG	Hand Premium (Die)	Commercial (Die)			
-	26-22	58052-3	Commercial (Bio)			
	22-18	90390-3	58628-2			
	16-14	90391-3				
	12	224027-2*	50000.0			
	10	224027-1*	58630-2			

* C-Head SAHT Dies (options)

Loose Piece Contacts:

Hand Tool / Die

For accessories and options please visit the hand tool page of our tooling web site (address below) and use the search function and the online hand tool catalogue.

Or alternatively call your local contact for personal assistance.

Dogovintion	Wire Range			Dimer	nsions			Terminal Base	Part No	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	.735 18.67	.020 x .110/.125 0.51 x 2.79/3.18		7-520365-21	7-520366-2
							.016 x .110/.125 0.41 x 2.79/3.18		2-520080-21	2-520081-2
		.120 3.05		.275 6.99		.735 18.67	.020 x .110/.125 0.51 x 2.79/3.18		2-520083-2	2-520084-2
.110/.125 Series	22-18						.032 x .110/.125 0.81 x 2.79/3.18		2-520272-23	2-520273-
		.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		2-520310-2	
	16-14	.260 6.60	.175 4.45	.275 6.99		.865 21.97	.020 x .110/.125 0.51 x 2.79/3.18		3-520370-22	
		.135		.336			.020 x .187 0.51 x 4.75	Brass	2-520181-2 ³	2-520182-
	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-
	22 10	.230		.336 .295 .935 8.53 7.49 23.75			.020 x .187 0.51 x 4.75	Brass	2-520261-2	2-520262-
.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
Series		.160		.336			.020 x .187 0.51 x 4.75	Brass	3-350815-2	3-350816-
	16-14	4.06	4.70	8.53	5.72	21.72	.032 x .187 0.81 x 4.75	Brass	3-520124-23	3-520125-
	10-14	.260				5 .935	.020 x .187 0.51 x 4.75	Brass	3-520150-2	3-520151-
		6.60	4.70	8.53	8.26	23.75	.032 x .187 0.81 x 4.75	Brass	3-520276-2	_
.205	22-18	.135		.409			.020 x .205 0.81 x 5.21	Brass	2-521406-2	_
Series		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
	22-18	3.43	4.95	10.39	5.08	21.72	0.81 x 6.35		2-520183-4	2-520184-
		.230		.409			.032 x .250	Brass	2-520263-2	2-520264
		5.84	4.95	10.39	7.49	23.75	0.81 x 6.35		2-520263-4	
.250		.160		.409			.032 x .250	Brass	3-350819-2	3-350820-
Series	16-14	4.06	4.95	10.39	5.72	21.72	0.81 x 6.35		3-520116-2	3-520117-
	16-14 -	.260		.409			.032 x .250	Brass	3-520140-2	3-520141
		6.60	4.95	10.39	8.26	23.75	0.81 x 6.35	Phos. Brz.	3-520140-4	_
	12-10	.320 8.13		.409 10.39		.935 23.75	.032 x .250 0.81 x 6.35	Brass	4-520447-2 ³	4-520448-



(Images are representative only.)

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

To find up to date equipment options and contacts please visit: www.tooling.tycoelectronics.com/europe



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

Ultra-Fast Fully Insulated FASTON Tabs

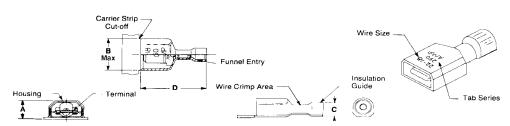
Material

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	rminal Base	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		3-520107-2
	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	.388 9.86	.935 23.75	.032 x .250 0.81 x 6.35	Brass	4-521097-2	4-521098-2
.187	22-18		.250			.793	.020 x .187 0.51 x 4.75	Brass	2-521102-2	2-521103-2
Series						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

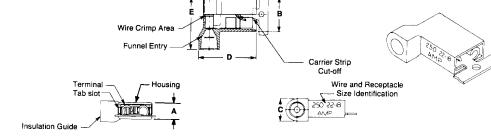
Housing — Nylon Type 6/6 Flammability — UL 94 V-2

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.			imensi	ions		Mating	Terminal Base	Part	Numbers
Description	AWG	Max.	A	В	C	D	E	Tab	Material	Strip	Loose Piece
	22-18	.165	.187	.320	.235	.636	.515	. 020 x .187 0.51 x 4.75	Brass	2-520334-22	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	Brass	2-520336-2	2-520337-2
.187		.185	.187	.320	.255	.632	.515	. 020 x .187 0.51 x 4.75	Brass	3-520338-2	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	Brass	3-520340-22	_
		.260	.187	.320	.325	.668	68 .565 .97 14.35	.020 x .187 0.51 x 4.75	Brass	3-520997-2	_
		6.60	4.75	8.13	8.26	16.97	14.35	.032 x .187 0.81 x 4.75	Brass	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	Brass	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	Brass	2-520128-2	2-520129-2
		.230 5.84	.187 4.75	.385 9.78	.295 7.49	.665 16.89	.630 16.00	.032 x .250 0.81 x 6.35	Brass	2-520856-2	_
.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	Brass	3-520132-2	3-520133-2
		.260 6.60	.187 4.75	.385 9.78	.325 8.26	.668 16.97	.630 16.00	.032 x .250 0.81 x 6.35		3-521013-2	_
	12-10	.320 8.13	.253 6.43	.385 9.78	.388 9.86	.747 19.97	.630 16.00	.032 x .250 0.81 x 6.35	Brass	4-521420-2	4-521421-2



(Images are representative only.)

¹ Stranded wire only.

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

To find up to date equipment options and contacts please visit: www.tooling.tycoelectronics.com/europe

Ultra-Fast Plus Fully Insulated FASTON Receptacles and Tabs

Product Facts

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

Performance Capabilities

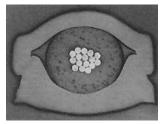
- Meets UL-310 specification for quick connect terminals; UL listed under File No. E-66717
- Meets CSA C22.2, No.153 Specification for quick connect terminals; CSA Certified under File No. LR 7189
- VDE tested according to DIN VDE 0627/ 9.91, specification for connectors and plug and socket devices VDE Reg. No. 5193

- 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

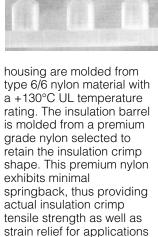
Ultra-Fast Plus Fully Insulated FASTON Receptacles and Tabs offer all the advantages of the standard Ultra-Fast product plus an insulation crimp.



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



where extreme wire

are present.

dressing and/or vibration

The Ultra-Fast Plus FASTON Receptacle housing completely encloses a tinplated 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

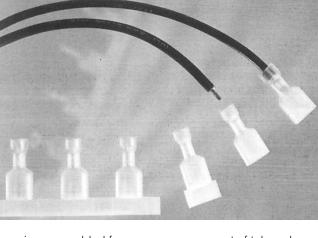
engagement of tab and receptacle while maintaining the fully insulated characteristics.

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.



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Terminals and



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

Ultra-Fast Plus Fully Insulated FASTON Receptacles

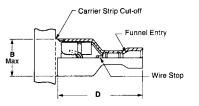
Material

Housing — Nylon Flammability — UL 94 V-2 Terminal — Tin plated, copper alloy

Color Code (Translucent)

Red — 22-18 AWG Blue — 16-14 AWG

Wire Size Housing Terminal Insulation Crimp Area Tab Slot



Wire Range AWG	Hand Tools Premium (Die)
22-18	58079-3
16-14	58080-3

Loose Piece Contacts:

Hand Tool / Die

For accessories and options please visit the hand tool page of our tooling web site (address below) and use the search function and the online hand tool catalogue.

Or alternatively call your local contact for personal assistance.

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	06 6.99 4.24 18.0	18.67	.032 x .110/.125 0.81 x 2.79/3.18	Brass	2-520979-2	_	
	22-18	.060135	.165	.336	.200	21.72	. 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		.032 x .187 0.81 x 4.75	Brass	2-520403-2	2-520411-2
Series	10.14	.090160	.185	.336	.225		.020 x .187 0.51 x 4.75	Brass	3-520402-2	3-520410-2
	16-14	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

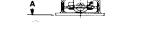
Ultra-Fast Plus Fully Insulated FASTON Tabs

Material

Housing — Nylon Flammability — UL 94 V-2

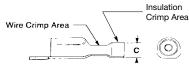
Terminal — Tin plated, copper alloy

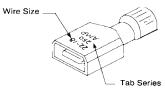


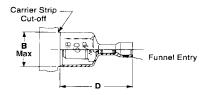


Terminal

Housing









(Images are representative only.)

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	22-18	.060135	060135 .250 .488 .205 .793	.793	.020 x .187 0.51 x 4.75	Brass	2-521360-2	_		
Series		1.52-3.43 6.35	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	.205 5.21	.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	_

To find up to date equipment options and contacts please visit: www.tooling.tycoelectronics.com/europe

Note: Part numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant; • Indicates "5 of 6 compliant" (lead in solderable interface only).

Ultra-Pod Fully Insulated FASTON Receptacles and Tabs

Product Facts

- Reduced insertion force
- Designed for correct lead-in of tab
- Mates with typical UL 310 110, 187 and 250 Series tab styles including those with shoulders
- UL rated at +105°C
- 110 Series accepts 22-18 AWG [0.3-1 mm²], 187 Series accepts 20-16 AWG [0.5-1.4mm²] wire and 250 Series accepts 22-10 AWG [0.3-5 mm²] wire
- Visual inspection of crimp and wire brush
- Terminated by automatic or semi-automatic equipment to meet production requirements
- Complies with the IEC 380, 601 and 950 and UL 1950 requirements for a secondary means of insulation fixing
- Listed by Underwriters Laboratories Inc., File No. E66717



- CSA Certified, File No. LR 7189
- VDE tested according to DIN VDE 0627/ 9.91, VDE Reg. No. (



Technical Documents Product Specification108-1285

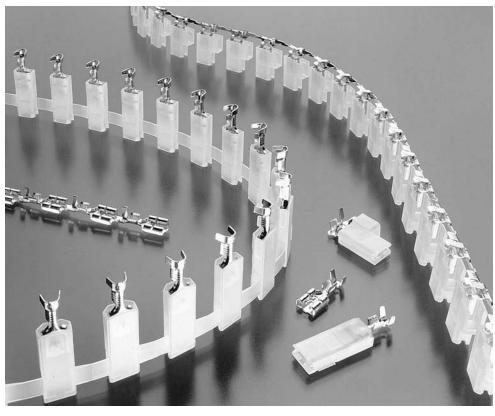
Application Specification 114-2124

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 immediately used in existing applications where insulation has been accomplished by other means. The low insertion force design provides easier tab insertion, reduces operator fatigue and improves the productivity and reliability of the end assembly operation.

The translucent 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.

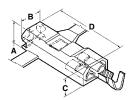
Depending on production requirements, Tyco Electronics provides a complete selection of terminating equipment from bench press to automatic lead maker.

To find up to date equipment options and contacts please visit: www.tooling.tycoelectronics.com/europe



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

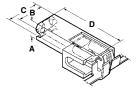
Insulation Support



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
							.020	V-2	Natural	Brass	521228-1
							0.51	• -	rtatarar	Tin-Plated Brass	521228-2
.110	22-18	.080120	.151	.224	.205	.805		V-2	Natural	Brass	521436-1
Series	22-10	2.03-3.05	3.83	5.69	5.21	20.45	.032	V-Z	ivalurai	Tin-Plated Brass	521436-2
							0.81	V-0	Natural	Brass	521437-12
								V-0	ivaluiai	Tin-Plated Brass	521437-2 ²
								V-2	Natural	Brass	520973-1
							.020	V-Z	ivalurai	Tin-Plated Brass	520973-2
							0.51	V-0	Natural	Brass	521225-1
	20-16	.090130	.170	.295	.200	.775		V-0	ivaluiai	Tin-Plated Brass	521225-2
.187	20-16	2.29-3.30	4.32	7.49	5.08	19.68		V-2	Natural	Brass	520982-1
Series							.032	V-Z	ivaluiai	Tin-Plated Brass	520982-2
							0.81	V-0	Natural	Brass	521284-1
								V-0 Natural Tin-	Tin-Plated Brass	521284-2	
	18-16 or	.105210	.170	2.95	.200	.775	.020 V-2	Natural	Brass	521293-1	
	2-18	2.67-5.33	5.33	7.49	5.08	19.68	0.51	V-Z	V-2 Natural	Tin-Plated Brass	521293-2
								V-2	Natural	Brass	520988-1
	22-18	.090130	.195	.370	.225	.945	.032		rvaturai	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	Ivaluiai	Tin-Plated Brass	521368-2
								V-2	Natural	Brass	520963-1
								V-Z	Ivaturai	Tin-Plated Brass	520963-2
.250	18-14	.120170	.195	.370	.225	.945	.032	V-0	Natural	Brass	521367-1
Series	10-14	3.05-4.32	4.95	9.40	5.72	24.00	0.81	V-0	Ivaturai	Tin-Plated Brass	521367-2
								V-2	Black	Tin-Plated Brass	521011-2
								V - Z	Diack	Nickel Plated Steel	521011-1 ²
								V-2	Natural	Brass	520974-1
	14-10	.130180	.195	.370 9.40	.225 5.72	.945		V-2	ivaluiai	Tin-Plated Brass	520974-2
	14-10		4.95			24.00		V-0	Natural	Brass	521366-1
								V-0	-0 Natural	Tin-Plated Brass	521366-2

 $^{^{\}rm 1}$ Flammability rating of plastic material. $^{\rm 2}$ 150°C rated nylon.

Flag Insulation Support



Description	Wire	Ins. Dia.		Dimer	sions		Mating	UL 941	Color	Material	Part Numbers
Description	Range	Range	Α	В	С	D	Tab	UL 94	Color	and Finish	Part Numbers
								V-2	Natural	Brass	521050-1
	22-18	.050100	.200	.370 9.40	.585	.680	.032	V-2	Maturai	Tin-Plated Brass	521050-2
	22-10	1.27-2.54	5.08		14.86	17.27	0.81	V-0	Natural	Brass	521411-1
								V-U	ivaluiai	Tin-Plated Brass	521411-2
.250									Natural Brass		520971-1
Series				.370 9.40	.585 14.86	.680 17.27		V-2	INGILITAI	Tin-Plated Brass	520971-2
	18-14	.110160 2.79-4.06	.200 5.08				. 032 0.81		Black	Tin-Plated Brass	520971-4
		2.70 4.00	5.00	3.40	14.00	17.27	0.01	V-0	Natural	Brass	521282-1
								V-U	Maturai	Tin-Plated Brass	521282-2
_	18-14 (2)-20	(2) .105 Max.	.200 5.08	.370 9.40	.585 14.86	.680 17.27	.032 0.81	V-2	Natural	Brass	521112-1

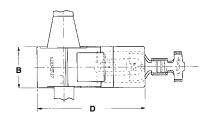
¹ Flammability rating of plastic material.

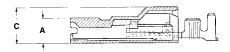
Note: Part numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant; ● Indicates "5 of 6 compliant" (lead in solderable interface only).



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

Positive Lock Insulation Support

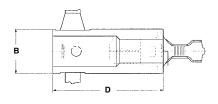


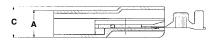


Description	Wire Range	Ins. Dia.		Dimen	sions		Mating	UL 941	Color	Material and Finish	Part Numbers
Description		Range	Α	В	С	D	Tab	UL 94	Color		Part Nullibers
								V-2	. Natural	Brass	521271-1
.187 Series	18-14	8-14	•	INatural	Tin-Plated Brass	521271-2					
Genes			7.12	7.00	0.70	20.02	0.0.	V-0	Natural	Tin-Plated Brass	521212-2
				.205 .370 .2				V-2	Natural	Brass	521213-1
.250	10.14	.110180	.205		.245	.950	.032			Tin-Plated Brass	521213-2
Series	18-14		5.21	9.40	6.22	24.13	0.81	V-0	Natural	Brass	521317-1
								v-0	ivalufal	Tin-Plated Brass	521317-2

¹ Flammability rating of plastic material.

Tabs Insulation Support





Description	Wire	Ins. Dia. Range		Dimen	sions		Tab	UL 941	Color	Material	Part Numbers
Description	Range		Α	В	С	D	Tab	UL 94	Coloi	and Finish	Part Numbers
				.450 11.43				V-2	Natural	Brass	521217-1
		.130180	.275 6.99		.310	1.120 28.45	.032 0.81	V-Z	Maturai	Tin-Plated Brass	521217-2
.250		3.30-4.57			7.87			V-0	Natural	Brass	521451-1
Series										Tin-Plated Brass	521451-2
		0 .150200 3.81-5.08	.275	.450	.310 7.87	1.120	.032	V o	Natural	Brass	521227-1
			6.99	11.43		28.45	0.81	V-2	ivalurai	Tin-Plated Brass	521227-2

¹ Flammability rating of plastic material.



PIDG FASTON Receptacles and Tabs

Product Facts

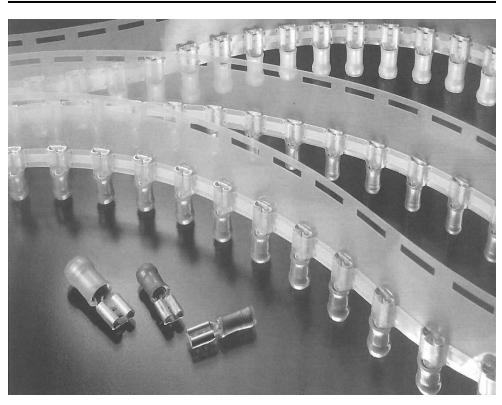
- Pre-insulated terminal designed for complete and uniformed reliability in the most difficult circuit environment
- Consists of an unplated or tin-plated brass body or a tin-plated phosphor bronze body with a specially designed copper sleeve and insulation sleeve fitted over the terminal barrel
- Design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

The Tyco Electronics Mated Tool/Terminal Concept

- Tyco Electronics compression crimping produces crimps for a given size wire and terminal that are precisely alike in appearance and performance
- Terminal and the crimping tool are designed as precisely matched devices
- Dies are 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 Tyco Electronics automated crimping machines

The Crimp

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



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

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

calibration in the crimping jaws of Tyco Electronics automated crimping machines.

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

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

Temperature Rating: 105° C

	•	
Wire Range	Recognized	⊕ LR7189 Certified
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 Wax.

¹ UL and CSA — Nylon.

Note: Part numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant; • Indicates "5 of 6 compliant" (lead in solderable interface only).

Related Product Data

reference page 8095 for tooling

Application Tooling —

PIDG FASTON Receptacles and Tabs (Continued)

Receptacles

Receptacle Style

A - No dimple with wire stop

B — Dimple with wire stop

C — No dimple, no wire stop

Material

Insulation — Nylon

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

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

ASTM B-152

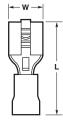
Plating — Tin per MIL-T-10727

Loose Piece Contacts:

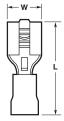
Hand Tool / Die

For accessories and options please visit the hand tool page of our tooling web site (address below) and use the search function and the online hand tool

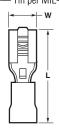
Or alternatively call your local contact for personal assistance.



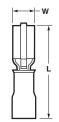




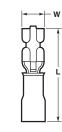
.205 Series



.187 Series



.110 Series-Standard



.110 Series-Low Insertion

			Serie	es	Se	ries	Serie	es		Standard	L	ow Insertion					
	Wire Size		Dimer	nsions	Terminal	Wire		011	Fits	ı	Part Numbers	;					
Series	Circular Mils [mm²]	Style	W Nom.	L Max.	Insulation Color	Insulation Diameter Max.	Recept. Matl.	Stock 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]		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	14.10				Blue	.250 6.35	Brass	.018 0.46	.032 0.81	696108-1	696108-2	696109-1					
	14-12 3,831-6,470 ¹ [1.94-3.28]		.300 7.62	1.012 25.70	Green	.250 6.35	Brass	.018 0.46	.032 0.81	42844-1*†	42844-3 [†]	60544-3†					
	[1.94-3.20]				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]		7.62	25.70	Yellow	.250 6.35	Phos. Brz.	.018 0.46	.032 0.81	61198-2 [†]	61198-4 [†]	_					
.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					
					Red	.135 3.43	Brass	.016 0.41	.020 0.51	696018-1	696018-2	_					
	22-18 509-1,900	В	.250	.800	Red	.140 3.56	Brass	.016 0.41	.020 0.51	640909-1*	640909-2	640908-1					
.205	[0.26-0.96]	Ь	6.35	20.32	Red/Black	.140 3.56	Brass	.016 0.41	.020 0.51	640174-1	_	_					
.200					Red	.140 3.56	Brass	.016 0.41	.032 0.81	640911-1*	640911-2	640910-1					
	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]		6.35	20.32	Blue	.170 4.32	Brass	.016 0.41	.032 0.81	640915-1*	640915-2	_					
	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 [†]					
.187	22-18 509-1,900 [0.26-0.96]	22-18 509-1,900	22-18		.230	.800	Red	.140 3.56	Brass	.016 0.41	.020 0.51	640917-1*	640917-2	640916-1			
			509-1,900	509-1,900	509-1,900	509-1,900	509-1,900	509-1,900	ъ	.230 5.84	.800 _ 20.32	Red	.140 3.56	Brass	.016 0.41	.040 1.02	_

[†] Not UL or CSA approved or listed.

To find up to date equipment options and contacts please visit: www.tooling.tycoelectronics.com/europe

¹ Wire range is limited as noted.

^{*} Available in small packaging quantities. ² Unplated receptacle body

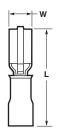
PIDG FASTON Receptacles and Tabs (Continued)

Receptacles (Continued)

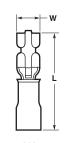
	Wire Size		Dimer	nsions	Terminal	Wire Insulation	Docont	Stock	Fits		Part Numbers	
Series	Circular Mils [mm²]	Style	W Nom.	L Max.	Insulation Color	Diameter Max.	Recept. Matl.	Thk.	Tab Thk.	Loose Piece	Tape Mounted	Strip Form
	16-14 2,050-5,180	В	.230 5.84	.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.020 0.51	640919-1*	640919-2	640918-1
.187	[1.04-2.62]	ь	.230 5.84	.900 22.86	Blue	.250 6.35	Brass	.016 0.41	.032 0.81	696108-1†	696108-2†	_
	22-18 509-1,900 [0.26-0.96]	В	.300 7.62	.900 22.86	Blue	.170 4.32	Brass	.016 0.41	.032 0.81	184235-1	184235-2	184234-1
.187 Low Insertion	22-18 509-1,900 [0.26-0.96]	В	.230 5.84	.800 22.86	Red	.145 3.68	Brass	.016 0.41	.032 0.81	184268-1 [†]	184268-2 [†]	184267-1 [†]
			.148 3.76	.734 18.64	Natural	.110 2.79	Brass	.012 0.30	.016 0.41	61048-1*†	61048-2 [†]	_
110	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 [†]
Standard		В	.148 3.76	.734 18.64	Natural	.110 2.79	Brass	.012 0.30	.032 0.81	60894-1*†	60894-2 [†]	60893-2 [†]
			.148 3.76	.734 18.64	Black	.110 2.79	Brass	.012 0.30	.032 0.81	_	61678-2 [†]	_
	26-24 238-475 [0.12-0.24]	Α	.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	Α							.016 0.41	640921-1	640921-2	_
Low Insertion	[0.26-0.96]	^	. 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
		Α	.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	Diass	0.41	.032 0.81	640931-1*	640931-2	_
	[В	.160 4.06	.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.016 0.41	640927-1	640927-2	_
		С	.160 4.06	.796 20.19	Blue	.170 4.32	Brass	.016 0.41	. 032 0.81	641317-1	_	_

[†]Not UL or CSA approved or listed.

Receptacles (Insulation Restricting)



.110 Series-Standard



.110 Series-Low Insertion

Material

Insulation — Nylon

Receptacle Body — Brass per
ASTM B-36

Receptacle Style B — Dimple with

wire stop **Plating** — Tin per MIL-T-10727

Metallic Sleeve — Copper per ASTM B-152

Plating — Tin per MIL-T-10727 or Nickel per QQ-N-290

Related Product Data

Application Tooling — reference page 8095 for tooling

	Wire Size Circular Mils [mm²]	Style	Dimensions		Terminal Insulation	Wire Insulation	Recept.	Stock	Fits	Part Numbers		
Series			W Nom.	L Max.	Color Solid/Stripe	Diameter	Mati.	Thk.	Tab Thk.	Loose Piece	Tape Mounted	Strip Form
.110 Standard	22 754 [0.38]	В	.148 3.76	.780 19.81	Red/ Green	.040080 1.02-2.03	Brass	.012 0.30	.016 0.41	55319-1	55319-3	_
.110 Low Insertion	16 2,800 [1.42]	В	.160 4.06	.821 20.85	Blue/ Blue	.064130 1.63-3.30	Brass	.016 0.41	.016 0.41	_	55318-3	_

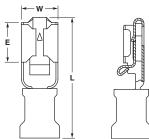
To find up to date equipment options and contacts please visit: www.tooling.tycoelectronics.com/europe

^{*}Available in small packaging quantities.



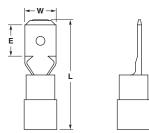
PIDG FASTON Receptacles and Tabs (Continued)

Positive Lock Receptacle Low Insertion Force with Locking Device



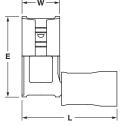
Description	Wire	Ins. Dia.	1	Dimensior	ıs	Material	Part Number	
Description	Range	Max.	W	L	Е	and Finish	rait Number	
For Tab	16-14	.190	.362	.850	.315	Tin-Plated Brass	165536-1	
.250 x .032	10-14	4.83	9.19	21.59	8.00	Tin-Plated Phosphor Bronze	165536-2	

Tab



Description	Wire	Ins. Dia.		Dimensior	ıs	Material	Part Number	
Description	Range	Max.	W	W L E		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 Flag FASTON



Description	Wire	Ins. Dia.		Dimensior	าร	Material	Part Number	
Description	Range	Max.	W	L	Е	and Finish	rait Nullibei	
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	







Related Product Data
Application Tooling —
reference page 8095 for tooling

(Images are representative only.)

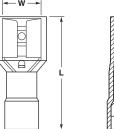
To find up to date equipment options and contacts please visit: www.tooling.tycoelectronics.com/europe

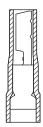


PIDG FASTON Receptacles and Tabs (Continued)

Fully Insulated Receptacles

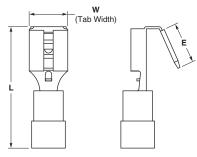
Insulation Sleeve — Nylon





December	Wire	Ins. Dia.	Dime	nsions	Material	Part Number	
Description	Range	Range	W	L	and Finish	rait 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	

Piggyback FASTON Receptacles



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

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

PIDG Budget Line FASTON Receptacles

Material

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

Plating — Tin

← W →	
	L

Series	Wire Size	Dimer	Dimensions		Wire Insulation	Fits	Part N	umbers
	Circular Mils [mm²]	W Nom.	L Nom.	Terminal Color	Diameter Max.	Tab Thk.	Loose Piece	Tape Mounted
	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
	16-14	.300 7.62	.917 23.29	Yellow	.244 6.20	.032 0.81	696303-1	696303-2

Wire Range AWG	Hand Tools Premium (Die)	Dies for Tape mounted product ¹
26-24	48518-2	69877-2
22-18	90035-3	59826-1
22-18 (natural)	90185-1	90248-2
16-14	90009-8	59827-1
14-12	90246-1	90240-2
12-10	90276-2	59828-1

¹ Applicator and Press required (options)

Applicators for strip product are application specific - please contact Tyco electronics to ensure you order the correct part number







(Images are representative only.)

To find up to date equipment options and contacts please visit: www.tooling.tycoelectronics.com/europe

25.4mm = 1 inch

FASTON Printed Circuit Board Tabs and Receptacles

Product Facts

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



Tyco Electronics now offers a complete line of Printed Circuit Board tabs and receptacles. Tyco Electronics PCB product can be found in switches and on control boards around the world. Our product offering includes .250, .187 and .100 series vertical tabs, .250 and .187 right angle tabs and .250/.205 vertical receptacles. Product is available in loose piece and strip form. In a short time, our product offering has grown from a handful of part numbers to over four dozen salable parts. We continue to add to our product family as design changes, innovation and customers' requirements expand.

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

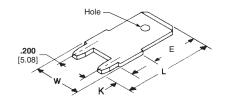
The Tyco Electronics product has been designed to be compatible with industry insertion equipment. In many cases, this product will work as a "drop in" replacement for existing product. In some cases, slight modifications or minor tooling changes are necessary. Please consult Technical Support or the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

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



250 Series Printed Circuit Board Tabs

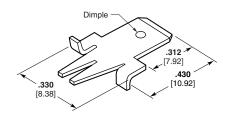
Stock Thickness — .032 [0.81] Board Hole Size — .055 \pm .002 [1.40 \pm 0.05] Dia.



	Dimer	sions		Material		<u> </u>	Terminal
W	L	K	E	and Finish	. 511	∰∘	Part No.
	.502 12.75	.125 3.18	.312 7.92	Tin Plated Brass	Х	Х	63839-1 ³
.312 7.92	.547 13.89	.157 3.99	.312 7.92	Tin Plated Brass	Х	Х	63986-1
	.552 14.02	.150 3.81	.312 7.92	Tin Plated Brass	_	_	1217566-1 ²
.295	.622	.125	.312	Tie Dieted Deser	Х	Х	62409-1 ^{1,3}
7.49	15.80	3.18	7.92	Tin Plated Brass	_	_	1217056-1 ¹
	.487 12.37	.125 3.18	.312 7.92	Tin Plated Brass	Х	Х	62650-12,3
.280 7.11	.532 13.51	.175 4.45	.312 7.92	Tin Plated Brass	Х	Х	63650-1 ^{2,3}
	.622	.125	.452	Tin Plated Brass	Х	Х	63900-1 ¹
	15.80	3.18	11.48	TIII FIALEU BIASS		_	63755-12,3

¹ Loose piece only. Board Hole Size:.060/.053 [1.52/1.35] Dia.

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



Material and Finish	. 51 1	⊕ ∘	Terminal Part No.
Tin Plated Brass	Х	Х	63066-12
IIII Flateu Brass	Х	Χ	63067-1 ¹

¹ Loose piece only.

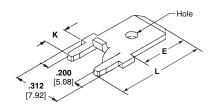
² Insertion equipment available.

³ Dimple.

² Insertion equipment available.

250 Series Printed Circuit Board Tabs (Continued)

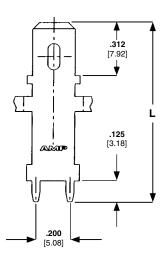
Stock Thickness — .032 [0.81] Board Hole Size — .055 \pm .002 [1.40 \pm 0.05] Dia.



	Dimensions	S	Material		⊕ ∘	Terminal
L	K	E	and Finish	. FU	Œ.	Part No.
				Х	Х	63862-1 ^{1,2}
.552 14.02	. 150 3.81	.312 7.92	Tin Plated Brass	X	Х	63849-1 ³
14.02	0.01	7.52		X	Х	63824-11
.710 18.03	.150 3.81	.470 11.94	Tin Plated Brass	_	_	1217125-11
.650 16.51	.150 3.81	.410 10.41	Tin Plated Brass	lated Brass X		1217126-1 ^{1,2}
.780 26.18	.150 3.81	.540 13.72	Tin Plated Brass	_	_	1217127-1 ¹
.582 14.78	.180 4.57	.312 7.92	Tin Plated Brass	Х	Х	1217136-11
.780 26.18	.150 3.81	.540 13.72	Tin Plated Brass	Х	Х	1217167-1 ³
.582 14.78	.180 4.57	.312 7.92	Tin Plated Brass	_	_	1217421-1 ³

¹ Insertion equipment available.

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



Dimension L	Material and Finish	. 9 \	⊕ ∘	Terminal Part No.
1.062 26.97	Tin Plated Brass	Х	Х	63949-1
1.207 30.66	Tin Plated Brass	Х	Х	63950-1

² Dimple.

³ Loose piece only.

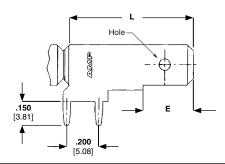


250 Series Printed Circuit Board Tabs (Continued)

Right Angle Printed Circuit Board Tab

Stock Thickness — .032 [0.81] Board Hole Size —

 $.055 \pm .002 [1.40 \pm 0.05]$ Dia.

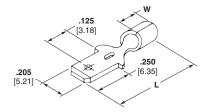


Dime	nsions	Material	.91	@ .	Terminal	
E	L	and Finish	.74	⊕ ∘	Part No.	
.312	.800	Tin Plated Brass	Х	Х	63951-1	
7.92	20.32	TIII Flated Blass	X	X	1217754-11	
.738 18.74	1.00 25.40	Tin Plated Brass	_	_	63952-1	

¹ Loose piece only.

205 Series Printed Circuit Board Only

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

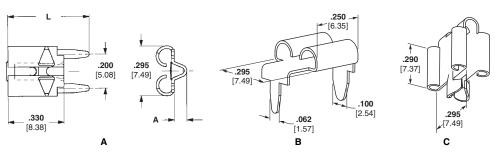


Dimer	nsions	Material		⊕ ∘	Terminal	
L	W	and Finish	and Finish		Part No.	
.525 13.34	.070 1.78	Tin Plated Brass	Х	Х	62411-11	
.545 13.84	.160 4.06	Tin Plated Brass	Х	Х	60284-21	

¹ Loose piece only.

.250/.205 Printed Circuit Board Receptacle

Stock Thickness — .016 [0.41]



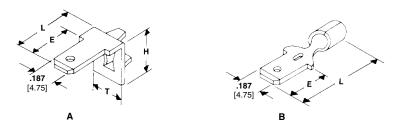
Style	Fits	Dime	nsions	Material	.91	<u> </u>	Pai	rt No.
Style	Tab	Α	L	and Finish	° 77	⊕ ∘	Strip	Loose Piece
	.032 0.81 (LIF)	.075 1.91	.480 12.19	Tin	_	_	63968-1	_
	. 032 0.81	.090 2.29	.480 12.19	Tin	_	_	63969-1	1217080-1
Α	.025 0.64 (LIF)	.075 1.91	.480 12.19	Tin	_	_	63994-1	_
	.025	.075	.510 12.95	Tin	_	_	1217137-1 ²	_
	0.64	1.91	.480 12.19	Tin	_	_	1217180-1	_
В	.020 0.51	_	_	Tin	_	_	1217107-11	_
С	.250 x .016 6.35 x 0.41 Spade	_	_	Tin	_	_	62751-1	62806-1

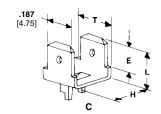
¹ Horizontal mount.

 $^{^{\}rm 2}$.180 [4.57] length — solder legs.

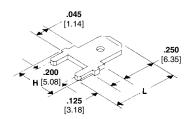
187 Series **Printed Circuit Board Tabs**

Stock Thickness — .020 [0.51]





Typo	Type Board		Dimensions			Material	. 9 \	⊕ ∘	Terminal
Type	Thickness	T	L	E	Н	and Finish	**************************************	€.	Part No.
Α	.055 1.38	.250 6.35	.332 8.43	.250 6.35	.283 7.19	Pre-Tin Brass	Х	Х	61543-1 ²
A	.062 1.57	.250 6.35	.332 8.43	.250 6.35	.283 7.19	Pre-Tin Brass	Х	Х	62403-12
В	.062 1.57	_	.545 13.84	.250 6.35	_	Tin-Plated Brass	Х	Х	61907-11
С	.062 1.57	.250 6.35	.332 8.43	.250 6.35	.303 7.70	Pre-Tin Brass	Х	Х	62221-1 ²



Tab	Dimer	nsions	Material		€.	Terminal
Thickness	L	Н	and Finish	.91	⊕ ∘	Part No.
.032 0.81	.487 12.37	.280 7.11	Tin Plated Brass	Х	Х	63525-11,3
.020	.440	.285 7.24	Tin Plated Brass	Х	Х	63603-12
0.51	11.18	.312 7.92	Tin Plated Brass	Х	Х	63838-1 ^{2,3}

¹ Dimple.

¹ Loose piece only.² Insertion equipment available.

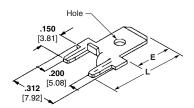
² .055 [1.40] Hole.

³ Insertion equipment available.



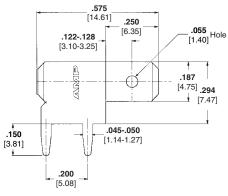
187 Series **Printed Circuit Board Tabs**

(Continued)



Tab	Dimer	nsions	Material		∰∘	Terminal
Thickness	L	E	and Finish	.91	Ø₽°	Part No.
	.490	.250	Tin Plated Brass	Х	Х	63860-1 ^{1,4}
	12.45	6.35	TIII Flateu brass		_	1217133-1
.032 0.81	.710 18.03	.470 11.94	Tin Plated Brass	Х	х	1217124-1
	.635 16.13	.395 10.03	Tin Plated Brass	_	_	1217332-1 ^{2,3}
.020	.490	.250	Tin Plated Brass	Х	Х	63982-12
0.51	12.45	6.35	Till lated Brace	X	Х	63823-14

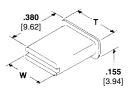
Right Angle Printed Circuit Board Tab



Stock Thickness	Board Hole Size	Material and Finish	. 9 1	⊕ ∘	Terminal Part No.
.032	.053057	Tin Plated Brass	Х	Х	1217061-1
0.81	1.35-1.45	Till Flated Blass	_	_	1217756-1 ¹
.020	.050054	Tin Plated Brass	Х	Х	1217062-1
0.51	1.27-1.37	Till Plated Brass		_	1217156-11

¹ Loose piece.

Tab Caps 187 and 250 Series



Tab Size	Material	UL 941	Color	Dime	nsions	Insulator
Tab Size	Material	OL 94	Color	Т	w	Part No.
"187" Series .020 [0.51] Thick	Nylon	V2	Natural	.320 8.13	.260 6.60	360041-1
"250" Series .032 [0.81] Thick	Nylon	V2	Natural	.380 9.65	.320 8.13	360042-1

¹ Flammability rating.

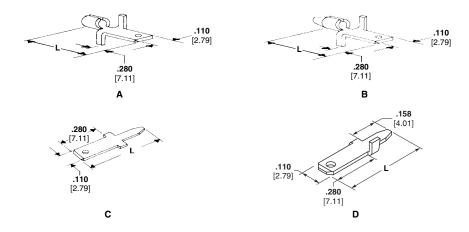
Note: Part numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant; ● Indicates "5 of 6 compliant" (lead in solderable interface only).

¹ Dimple. ² Loose piece.

No hole or dimple.Insertion equipment available.

.110 Series Printed Circuit Board

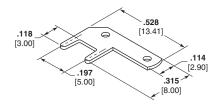
Stock Thickness — .020 [0.51]



Style	Mating Hole Diameter	Dim. L	Material and Finish	<i>.</i> 71	⊕ ∘	Terminal Part No.
Α	.060055 1.52-1.40	.490 12.45	Tin Brass	Х	Х	61134-3 ¹
В	.067063 .485 Tin Brass	Х	Х	61968-12		
Ь	1.70-1.60	12.32	IIII DI dSS	X	Χ	62437-1 ¹
		.490 12.45	Tin Brass	Х	Х	62395-1 ²
		.622 15.80	Tin Brass	Х	Х	63756-1 ^{2,3}
С	.044048 1.12-1.22	.910 23.11	Tin Brass	_	_	63794-14
		.550 13.97	Tin/Lead	_	_	1217121-1 ¹
		.622 15.80	Tin Brass	_	_	1217514-1
	.067073 1.70-1.85	.490 12.45	Pre-tin/ Pre-copper	Х	Х	62669-12
D	. 062068 1.57-1.73	.545 13.84	Tin Brass	_	_	1217577-1 ²

¹ Loose piece only.

Right Angle Printed Circuit Board Tabs



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

² Insertion machine available.

^{3 .032 [0.81]} Stock.

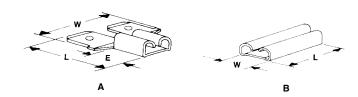
⁴ .060 [1.52] Tab width.



250 Series

FASTON Tab Adapters

Fits Tab — .032 [0.81]

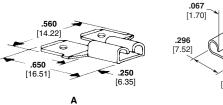


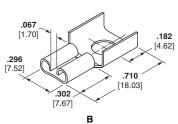
Style	Dual		Dimension	s	Material	. 9 1		Terminal	
Style	Thickness	W	L	Е	and Finish	°74	Œ.	Part No.	
				Brass		Х	Х	61765-1	
Α	.018032 0.46-0.81	.650 16.51	.770 19.56	.305 7.75	Tin Plated Brass	Х	Х	61765-2 ¹	
	0.10 0.01	10.01	10.00	7.70	TIII Flateu brass	_	_	1217033-1	
В		.300	.700		Tin Plated Brass	Х	Х	61810-2	
В	_	7.62	11.78	_	— In Plated Brass		Х	63918-12	

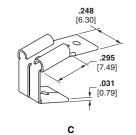
¹ No tab stop on receptacle. ² Fits .025 [0.64] thick tab.

187 Series

FASTON Tab Adapters

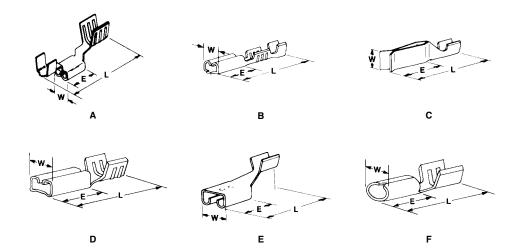






Style	Stock Thickness	Receptacle Fits Tab	Material and Finish	. 9.1	∰∘	Terminal Part No.
^	.013 x .020 0.33 x 0.51	.020 0.51	Tin Plated Brass	X	Х	61045-2
A —	.013 x .032 0.33 x 0.81	.032 0.81	Tin Plated Brass	х	Х	63699-1
Р	.016 0.41	.032 0.80	Nickel Plated Steel	_	_	151302-2
В –	.016 0.41	.032 0.80	Brass (90°)	_	_	152422-1
С	.016032 0.41-0.81	.032 0.80	Brass	_	_	726308-1

Tab Receptacles



Wire	Range		Insul. Dia.	Stock	Material	En. T.I.		Dimensions	;	D. 111
AWG	mm²	Type	Range	Thk.	and Finish	Fits Tab	Е	L	W	Part No.
26-22	0.12-0.4	В	.035065 0.89-1.65	.010 .025	Pre-Tin Brass	.031 x .093 0.79 x 2.36	.190 4.83	.475 12.06	.120 3.05	61813-15
		^	.040080	.010	Brass	.045 x .045 1.14 x 1.14	.130 3.3	.372 9.45	.095 2.41	60524-1
		Α	1.02-2.03	0.25	Tin Plated Beryllium Copper	.045 x .045 1.14 x 1.14	.130 3.3	.372 9.45	.095 2.41	60524-5
					Tin Plated Brass	.031 x .062 0.79 x 1.57	.187 4.75	.462 11.73	.090 2.29	60900-11
24-20	0.2-0.6				Gold Plated Brass	.031 x .062 0.79 x 1.57	.187 4.75	.462 11.73	.090 2.29	60900-2
24-20	0.2-0.6	В	.040080 1.02-2.03	.010 0.25	Tin Plated Brass	. 031 x .062 0.79 x 1.57	.187 4.75	.462 11.73	.090 2.29	60900-42
					Gold Plated Brass	.031 x .062 0.79 x 1.57	.187 4.75	.462 11.73	.090 2.29	60900-57
					Tin Plated Brass	.031062 0.79-1.57	.187 4.75	.462 11.73	.090 2.29	63887-1
		F	_	.010 0.25	Tin Plated Brass	.015 x .050 0.38 x 1.27	.145 3.68	.310 7.87	.070 1.78	62352-1
22-20	0.3-0.6	E	_	.010 0.25	Tin Plated Brass	.037 x .125 0.94 x 3.18	.190 4.83	.425 10.8	.160 4.06	41989
		^	.060110	.010	Tin Plated Brass	.031 x .062 0.79 x 1.57	.130 3.3	.372 9.45	.090 2.29	61489-1
22-18	0.3-0.9	Α	1.52-2.79	0.25	Gold Plated Brass	.031 x .062 0.79 x 1.57	.130 3.3	.372 9.45	.090 2.29	61616-1
22-10	0.3-0.9	В	.050085	.010	Pre-Tin Brass	.010 x .093 0.25 x 2.36	.190 4.83	.480 12.19	.120 3.05	63391-13,4
		Ь	1.27-2.16	0.25	Pre-Tin Brass	.010 x .093 0.25 x 2.36	.190 4.83	.480 12.19	.120 3.05	63391-24
					Pre-Tin Brass	.032 x .103 0.81 x 2.62	.200 5.08	.480 12.19	.126 3.2	60252-1 ⁶
20-18	0.5-0.9	В	.080120 2.03-3.05	.010 0.25	Pre-Tin Brass	.020 x .103 0.51 x 2.62	.200 5.08	.480 12.19	.126 3.2	60432-16
20-10	0.5-0.9				Tin Plated Brass	.020 x .156 0.51 x 3.96	.200 5.08	.480 12.19	.179 4.55	62399-1
		D		.010 0.25	Brass	.010 x .110 0.25 x 2.79	.200 5.08	.380 9.65	.148 3.76	62589-1
18-14	0.8-2.0	С	_	.025 0.64	Brass	.060 x .250 1.52 x 6.35	.520 13.2	.985 25.02	.250 6.35	60312-1

 $^{^{\}mbox{\tiny 1}}$ Available in loose piece form, order Part No. 61454-1.

² Reverse reel of 60900-1.

 $^{^{\}rm 3}$ Loose piece form, of Part No. 63391-2.

⁴ Compliant base.

⁵ No dimple.

⁶ Dimple.

⁷ Reverse reel of 60900-2.



Product Facts

- Used for single and multiple connections
- Receptacles and tabs available for 6.3, 4.8 and 2.8 mm tab size

Materials and Finish

Contacts:

Brass and phosphor bronze base material.
Tin and silver plated products available.

Housings:

Polyamide UL94V2 and UL94V0

Performance Data

Current Rating:

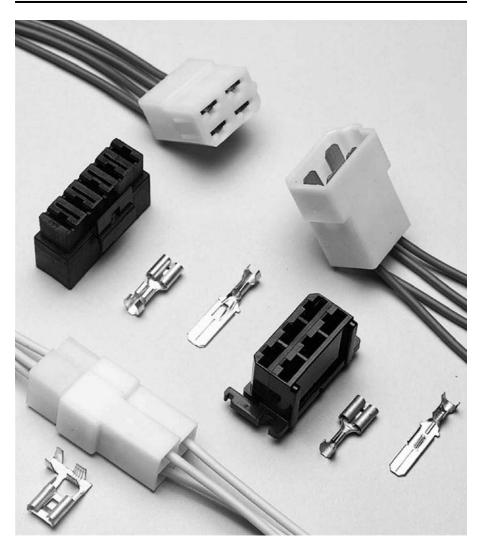
20A max with 2.5 mm² wire size.

Technical Documents Application Specifications:

114-20021 FASTIN-FASTON 114-20011 FASTIN-FASTON 4.8 mm (.187 Srs)

Product Specifications:

108-20020 FASTIN-FASTON



Introduction

Tyco Electronics FASTIN-FASTON connectors offer the advantages of the FASTON technology in multiple applications.

In wiring harnesses, they are mainly used as multiposition and coupling connectors.

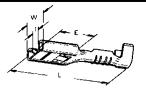
Up to 8 position connectors can be mated in one operation with a maximum of 20 leads terminated.

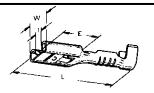
Locking Contacts

Receptacles and tabs in this version comply fully with the FASTON technology. The only difference is the addition of a locking lance, which ensures firm retention of contacts when snapped into housings. Wiring harnesses pre-fabricated with male or female connectors can be easily connected to mating counterparts, even if manufacturing occured at a different site. Any application of this technology leads to essential time savings in final assembly.

Straight Receptacles with Locking Lance for Single & Multiple Connections

Size 6.3 mm (.250 Series)





				A - Without Dimple		B - Wit	h Dimple	
Style	Tab Thk	Wire Range	Insulation Dia	Material	Part Number		Dimensions	5
	mm	mm ²	mm	and Finish		w	L	Е
		0.0.0	0.0.0.0	Brass	280095-1			
		0.3-0.8	2.2-3.2	Brass-Tin Plated	280095-2			
				Brass-Tin Plated	160928-2			
		0.5-1.0	1.4-2.3	Ph. Bronze	160928-3			
				Ph. Bronze-Tin Plated	160928-4			
				Brass	5-160526-6			
		0.5-1.5	2.3-3.3	Brass-Tin Plated	5-160526-7			
		0.5-1.5	2.3-3.3	Brass-Silver Plated	6-160526-1			
				Ph. Bronze-Tin Plated	5-160526-9			
		0.8-2.5	3.1-4.1	Brass	42100-1			
		0.6-2.5	3.1-4.1	Brass-Tin Plated	42100-2			
				Brass	6-160448-0			
Α	8.0			Brass-Tin Plated	6-160448-5	7.4	19.2	7.8
		1.0-2.5	3.4-5.1	Brass-Silver Plated	6-160448-6			
		1.0-2.5	3.4-3.1	Ph. Bronze	6-160448-1			
				Ph. Bronze-Tin Plated	6-160448-2			
				Ph. Bronze-Silver Plated	6-160448-3			
				Brass-Tin Plated	160927-2			
		1.0-2.5	2.1-3.1	Ph. Bronze	160927-3			
				Ph. Bronze-Tin Plated	160927-4			
				Brass	180351-1			
				Brass-Tin Plated	180351-2			
		4.0-6.0	3.4-5.1	Brass-Silver Plated	180351-6			
				Ph. Bronze	180351-3			
				Ph. Bronze-Tin Plated	180351-5			
				Brass-Tin Plated	160860-2			
		0.5-1.0	1.4-2.3	Ph. Bronze	160860-3			
				Ph. Bronze-Tin Plated	160860-4			
		0.5-1.0	2.0-3.3	Brass	160870-1			
				Ph. Bronze	160870-3			
				Brass	5-160558-1			
		0.5-1.5	2.3-3.3	Brass-Tin Plated	5-160558-2			
				Ph. Bronze-Tin Plated	5-160558-9			
				Ph. Bronze-Silver Plated	6-160558-0			
		0.8-2.5	3.1-4.1	Brass	42281-1			
				Brass-Tin Plated	42281-2			
В	0.8			Brass-Tin Plated	5-160446-5	7.4	19.2	7.8
		4005	0.4.4.4	Brass-Silver Plated	5-160446-6			
		1.0-2.5	3.1-4.1	Ph. Bronze	5-160446-1			
				Ph. Bronze-Tin Plated	5-160446-2			
				Ph. Bronze-Silver Plated	5-160446-8			
		4005	0404	Brass-Tin Plated	160917-2			
		1.0-2.5	2.1-3.1	Ph. Bronze	160917-3			
				Ph. Bronze-Tin Plated	160917-4			
		2.5-4.0	3.3-4.5	Ph. Bronze	160913-3			
				Ph. Bronze-Tin Plated Brass-Tin Plated	160913-4			
		4.0-6.0	4.0-5.2	Ph. Bronze	160914-2			
		4.0-0.0	4.0-5.2	Ph. Bronze-Tin Plated	160914-3 160914-4			
	DIN 40040			FII. DIVIIZE-IIII PIALEU	100914-4			

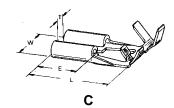
Related to DIN 46340

Type B suggested for connections with less than 4 contacts



Flag Receptacles with Locking Lance for Multiple Connections

Size 6.3 mm (.250 Series)



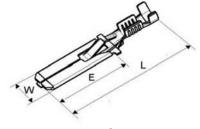
Style	Tab Thk	Wire Range	Insulation Dia	Material	Part Number		Dimensions	3
	mm	mm ²	mm	and Finish	_	W	L	E
				Brass-Tin Plated	160861-6			
		0.5-1.0	1.4-2.3	Ph. Bronze	160861-7			
		0.5-1.0		Ph. Bronze-Tin Plated	160861-8			
С	0.8		2.0-3.3	Brass-Tin Plated	160871-6	7.6	15.5	7.6
		0.5-1.5	2.3-3.3	Brass-Tin Plated	280428-4			
		1.0-2.5	2.5-3.8	Brass	*180398-1			
		1.0-2.5	2.5-3.0	Brass-Tin Plated	*180398-2			

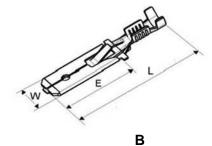
All Parts with dimple, unless differently specified

^{*} Without dimple

Tabs with Locking Lance for Single & Multiple Connections

Size 6.3 mm (.250 Series)





Style	Wire Range	Insulation	Tab	Material	Part Number		Dimensions	
	mm ²	Dia. mm	Thk.	and Finish	-	W	L	Е
	0.3 -0.8	1.2 - 1.8	0.8	Brass	1-282186-3	6.2	28.0	15.0
	0.3 -0.8	1.2 - 1.8	0.8	Brass - Tin Plated	1-282186-1	6.3	28.0	15.8
	0.3 -1.0	2.3 max	0.8	Brass	1-293041-1	6.3	27.0	15.8
	0.3 - 1.0	Z.3 IIIax	0.6	Brass - Tin Plated	1-293041-2	0.3	21.0	15.6
				Brass	42098-1			
				Brass - Tin Plated	42098-2			
Α	0.8 - 2.5	3.0 - 4.0	8.0	Ph. Bronze	160450-1	6.3	28.0	15.8
^				Ph. Bronze - Tin Plated	160450-2			
				Ph. Bronze - Silver Plated	160450-3			
				Brass	180352-1			
				Brass - Tin Plated	180352-2			
	4.0 - 6.0	3.4 - 5.1	8.0	Brass - Silver Plated	180352-6	6.3	28.0	15.8
				Ph. Bronze	180352-3			
				Ph. Bronze - Tin Plated	180352-5			
	0.3 -0.8	2.2 - 3.2	0.8	Ph. Bronze - Tin Plated	160691-4	6.3	28.0	15.8
		2.2 0.2	0.0	Brass - Silver Plated	160691-5	0.0	20.0	10.0
	0.3 -1.0	2.3 max	0.8	Brass	293041-1	6.3	27.0	15.8
		2.0 11107		Brass - Tin Plated	293041-2			
				Ph. Bronze	160859-6			
	0.5 - 1.0	1.4 - 2.3	0.8	Ph. Bronze - Tin Plated	160859-4	6.3	28.0	15.8
				Ph. Bronze - Silver Plated	160859-5			
				Brass	280081-1			
В				Brass - Tin Plated	1-280081-2			
	0.8 - 2.5	4.0 max	0.8	Brass - Silver Plated	1-280081-0	6.3	28.0	15.8
				Ph. Bronze	280081-3			
				Ph. Bronze - Tin Plated	280081-7			
				Brass	280080-1			
	40.00			Brass - Tin Plated	280080-2			4=0
	4.0 - 6.0	3.4 - 5.1	8.0	Brass - Silver Plated	280080-5	6.3	28.0	15.8
				Ph. Bronze	280080-6			
				Ph. Bronze - Tin Plated	280080-4			

Related to DIN 46343



Straight Receptacles with Locking Lance for Multiple Connections

Size 4.8 mm (.187 Series)



Style	Wire Range	Insulation Dia	Tab Thk	Material	Part Number		Dimensions	;
	mm²	mm	mm	and Finish		W	L	Е
-	0.5-1.5	2.3-3.3	0.4	Brass-Tin Plated	60435-1	5.6	19.1	-

Tabs with Locking Lance for Multiple Connections

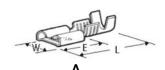
Size 4.8 mm (.187 Series)



Style	Wire Range	Insulation Dia	Tab Thk	Material	Part Number		Dimensions	;
	mm²	mm	mm	and Finish		W	L	E
-	0.5-1.5	2.3-3.3	0.4	Brass-Tin Plated	60434-1	3.7	24.3	-

Straight Receptacles with Locking Lance for Single & Multiple Connections

Size 2.8 mm (.110 Series)

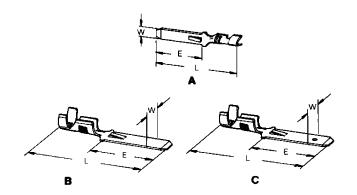


Style	Wire Range	Insulation Dia	Tab Thk	Material	Part Number		Dimensions	;
	mm ²	mm	mm	and Finish	•	W	L	E
	0.3-0.6	1.3-2.0		Brass	160366-1	3.7	14.0	6.3
	0.5-0.0	1.3-2.0		Brass-Tin Plated	160366-2	3.1	14.0	0.5
			0.5	Brass-Tin Plated	160684-4			
	0.5-1.0	2.0-3.1		Ph. Bronze	160684-1	3.7	14.0	6.3
				Ph. Bronze-Tin Plated	160684-2			
	0.05-0.14	0.8-1.3		Brass-Tin Plated	160409-2	3.7	14.0	6.3
	0.2-0.5	1.0-1.6	-	Brass-Tin Plated	160922-2	3.7	14.0	6.3
Α	0.2-0.5	1.0-1.0		Ph. Bronze	160922-3	3.1	14.0	0.3
A	0.2-0.5	1.5-2.0	-	Brass-Tin Plated	150571-2	3.7	15.4	6.3
			_	Brass	160173-1			
	0.3-0.6	1.3-2.0	0.8	Brass-Tin Plated	160173-2	3.7	14.0	6.3
				Ph. Bronze-Tin Plated	160173-7			
	0.5-1.0	1.4-2.3	-	Brass-Tin Plated	160864-2	3.7	14.0	6.3
			-	Brass-Tin Plated	160655-2			
	0.5-1.5	2.0-3.1		Ph. Bronze	160655-3	3.7	14.0	6.3
				Ph. Bronze-Tin Plated	160655-4			

Related to DIN 46340

Tabs with Locking Lance for Single & Multiple Connections

Size 2.8 mm (.110 Series)



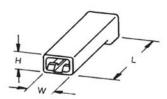
Style	Wire Range	Insulation Dia	Tab Thk	Material	Part Number		Dimension	3
	mm²	mm	mm	and Finish	-	W	L	E
Α	0.3-0.6	1.4-2.2	0.8	Brass-Tin Plated	160174-2	2.8	22.0	12.5
^	0.5-0.0	1.4-2.2	0.0	Ph. Bronze	160174-5	2.0	22.0	12.5
				Brass-Tin Plated	160887-4			
	0.5-1.0	1.4-2.3		Ph. Bronze	160887-1	2.8	22.0	12.7
				Ph. Bronze-Tin Plated	160887-2			
В			0.8	Brass	160743-3			
	0.5-1.5	2.3-3.1		Brass-Tin Plated	160743-4	2.8	22.0	12.7
	0.5-1.5	2.3-3.1		Ph. Bronze	160743-1	2.0	22.0	12.7
				Ph. Bronze-Tin Plated	160743-2			
				Brass	160923-1			
	0.2-0.5	1.0-1.6		Brass-Tin Plated	160923-2			
С			0.8	Ph. Bronze	160923-3	2.8	22.0	12.7
	0.5-1.5	2.3-3.1	-	Ph. Bronze	160762-1			
	0.5-1.5	2.3-3.1		Ph. Bronze-Tin Plated	160762-2			

Related to DIN 46343

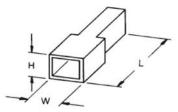


Receptacle and Tab Housings Single Connection

Size 6.3 mm (.250 Series)





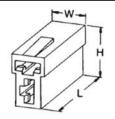


B - Tab Housing

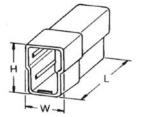
Style	Material	UL 94	Color	Part Number	Dimensions		
					W	L	Н
			Natural	180905-0	9.9	22.9	6.5
٨	Polyamide	V2 -	Black	180905-5	9.9	22.9	0.5
Α	Polyanilue	٧٧ -	Natural	925324-2	9.9	24.1	6.5
		•	Black	925324-1	9.9	∠4.1	0.5
В	Polyamida	\/2	Natural	180916-0	12.5	31.0	0.4
В	Polyamide	V2 -	Black	180916-5	12.5		9.4

Receptacle and Tab Housings 2 Positions

Size 6.3 mm (.250 Series)



C - Receptacle Housing

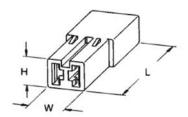


D - Tab Housing

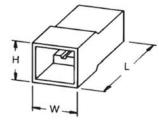
Style	Material	UL 94	Color	Part Number	Dimensions		
					W	L	Н
C	C Polyamide	V2 -	Natural	180907-0	10.2	22.9	16.6
C	Folyanniue	٧٧ -	Black	180907-5	10.2		
D	Polyamide	V2 -	Natural	180908-0	12.7	31.5	20.1
ь	Folyanlide	٧٧.	Black	180908-5	12.7	31.3	

Receptacle and Tab Housings 2 Positions

Size 6.3 mm (.250 Series)



E - Receptacle Housing



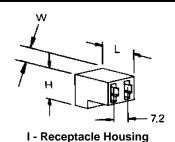
F - Tab Housing

Style	Material	UL 94	Color	Part Number	Dimensions		
				•	W	L	Н
E Polyamide		V2 ·	Natural	180923-0			
	Polyamide	VZ ·	Black	180923-5	12.5	22.9	10.0
		V0	Natural	4-180923-0			
		V2 ·	Natural	180924-0			
F	Polyamide	٧Z	Black	180924-5	15.2	31.5	13.2
	_	V0	Natural	4-180924-0			

Note: Part numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant; ● Indicates "5 of 6 compliant" (lead in solderable interface only).

Receptacle Housings 2 Positions

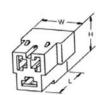
Size 6.3 mm (.250 Series)



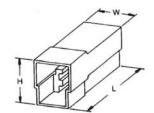
Style	Material	UL 94	Color	Part Number		Dimensions	
					W	L	Н
I	Polyamide	V2	Natural	180918-0	14.1	18.5	14.0

Receptacle and Tab Housings 3 Positions

Size 6.3 mm (.250 Series)



G - Receptacle Housing

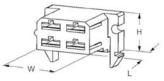


H - Tab Housing

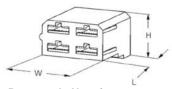
Style	Material	UL 94	Color	Part Number	Dimensions		
					w	L	Н
G	Polyamide	V2 -	Natural	180941-0	15.2	22.9	17.9
		VZ -	Black	180941-5	13.2	22.9	17.9
Н	Polyamide	V2 -	Natural	180940-0	15.2	21.0	19.9
- "	Polyamide	VZ -	Black	180940-5	13.2	31.8	

Receptacle and Tab Housings 4 Positions

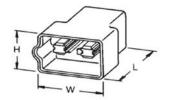
62 Series (.250 Series)



LA - Receptacle Housing



L - Receptacle Housing



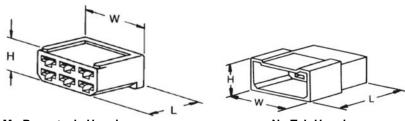
M - Tab Housing

Style	Material	UL 94	Color	Part Number	Dimensions		
					W	L	Н
	Polyamide	V2 -	Natural	180900-0	23.1	24.1	15.4
L	Folyannide	٧Z	Black	180900-5	23.1	24.1	13.4
LA	Polyamide	V2	Natural	163120-0	23.1	24.1	16.8
М	Polyamide	V2 -	Natural	180901-0	26.2	31.5	16.5
IVI	Folyanilue	V2	Black	180901-5	20.2	31.5	10.5



Receptacle and Tab Housings 6 Positions

Size 6.3 mm (.250 Series)



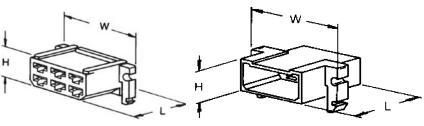
M - Receptacle Housing

N - Tab Housing

Style	Material	UL 94	Color	Part Number	Dimensions		
					W	L	н
			Natural	925276-0	28.5	24.3 24.3	16.8
М	Polyamide	V2 -	Black	925276-1	20.5		10.0
IVI	Folyamide	٧٧ -	Natural	280314-0	28.5		15.3
		-	Black	280314-5	20.5		
N	Dolyomido	\/2	Natural	180906-0	31.4	32.4	19.0
	Polyamide	V2 -	Black	180906-5	31.4		18.0

Receptacle and Tab Housings 6 Positions, Panel Mount

Size 6.3 mm (.250 Series)



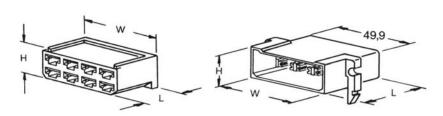
O - Receptacle Housing

P - Tab Housing

Style	Material	UL 94	Color	Part Number	Dimensions		
					W	L	Н
0	O Polvamide	V2 ·	Natural	180904-0	37 2	24.3	16.8
	Folyamide	VZ .	Natural	163006-0	37.2	24.3	
Р	Polyamide	V2	Natural	180948-0	40.5	32.4	18.0

Receptacle and Tab Housings 8 Positions

Size 6.3 mm (.250 Series)



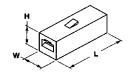
Q - Receptacle Housing

R - Tab Housing

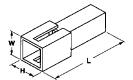
Style	Material	UL 94	Color	Part Number	Dimensions		
					W	L	Н
Q	Polyamide	V2	Natural	163007-0	37.7	24.1	16.6
R	Polyamide	V2	Natural	163008-0	40.1	32.6	18.3

Receptacle and Tab Housings Single Connection

Size 2.8 mm (.110 Series)



A - Receptacle Housing

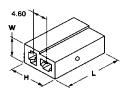


B - Tab Housing

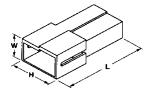
Style	Material	UL 94	Color	Part Number _		Dimensions		
					w	L	Н	
Α	Polyamide	-	Natural	626062-0	6.0	18.0	6.0	
В	Polyamide	-	Natural	626063-0	8.3	25.4	8.3	

Receptacle and Tab Housings 2 Positions

Size 2.8 mm (.110 Series)



C - Receptacle Housing

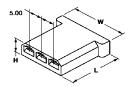


D - Tab Housing

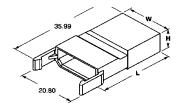
Style	Material	UL 94	Color	Part Number	Dimensions		
					W	L	Н
С	Polyamide	-	Natural	626064-0	6.3	18.0	11.2
D	Polyamide	-	Natural	626065-0	8.1	25.4	12.9

Receptacle and Tab Housings 3 Positions

Size 2.8 mm (.110 Series)



E - Receptacle Housing

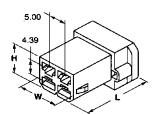


F - Tab Housing

Style	Material	UL 94	Color	Part Number	Dimensions		
					W	L	Н
E	Polyamide	-	Natural	925015-0	19.0	18.0	5.0
F	Polyamide	-	Natural	925475-1	18.8	27.5	7.2

Receptacle and Tab Housings 4 Positions

Size 2.8 mm (.110 Series)



G - Receptacle Housing

_	
H	
w	

H - Tab Housing

Style	Material	UL 94	Color	Part Number	Dimensions		
					W	L	Н
G	Polyamide	-	Natural	626056-0	10.7	18.0	8.7
Н	Polyamide	-	Natural	626057-0	13.0	27.3	11.0



Extraction Tool: 1-1579007-4

Product Type	Wire Range mm ²	Hand Tools
6.3 Straight Tabs	0.3 - 6.0	825514 ¹
& Receptables	0.6 – 2.5	720725-1*
6.3 Flag receptacles	0.5 – 2.5	539742-2**

Service Grade Tool
 Premium Grade Tool
 Die-set only - base tool 539635-1also required

Product Type	Wire Range mm ²	Hand Tools
4.8 Straight Tabs & Receptables	0.5 – 1.5	90088*

^{*} Premium Grade Tool

Product Type	Wire Range mm ²	Hand Tools
6.3 Straight Tabs & Receptables	0.06 - 0.15	675809-1*
	0.2 - 0.5	539744-2**
	0.5 – 2.5	539743-2**

Loose Piece Contacts:

Hand Tool / Die

For accessories and options please visit the hand tool page of our tooling web site (address below) and use the search function and the online hand tool catalogue.

Or alternatively call your local contact for personal assistance.







(Images are representative only.)

To find up to date equipment options and contacts please visit: www.tooling.tycoelectronics.com/europe

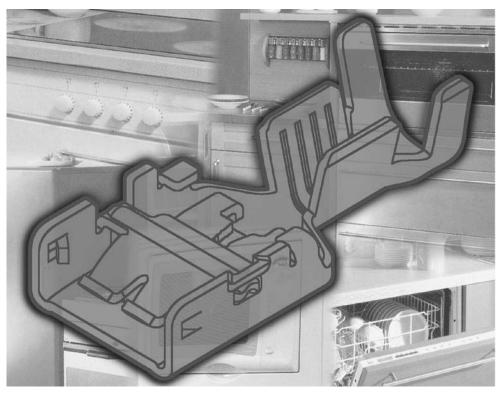
8114

^{*} Premium Grade Tool
** Die-set only - base tool 539635-1also required

E-SPRING Contact

Product Facts

- For 6,35 x 0,8 mm tabs
- Low insertion energy: (1st insertion force 35N. max.)
- Robust design: 45N. min. (1st extraction) 25N. min. (8th extraction) 20N. min. (10th extraction)
- Complies with CEI 760 / EN 61210 / DIN 46249 norms
- UL approved*
- According to VDE 0613 norm
- Product Specification: 108-22150 (steel) 108-22128 (brass and tin plated brass) 108-22149 (Sleeve)
- Application Specification: 114-22017



Tyco Electronics AMP has developed the E-SPRING Contact, a new contact generation that meets the highest quality requirements for Household Appliances and similar type of applications.

Easy insertion

- Its swinging spring makes the insertion easy and with practically no effort (work)
- Tap stop at the end of the mating process.

Minimum effort for the worker

The insertion forces appear only in a small part of the insertion trajectory thanks to its swinging spring.

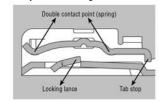
Main applications

- Washing machines, dishwashers
- Refrigerators, freezers
- Cookers, hot plates, ovens
- Small appliances
- Vending and gambling machines

Contact robustness

Its geometry has been designed in order to endure overstress, pullings from the cable and non-aligned insertions.

Easy Insertion and great robustness



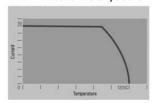
Functional features of the E-SPRING Contact

Minimum effort for the operator



The energy to insert the E-SPRING Contact is 50% of that to insert a FASTON

Maximum current vs temperature



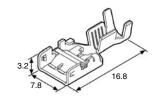
1.5mm², pre-tinned brass terminal.
Test has been performed in
ambiental temperature

Note: Part numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant; ● Indicates "5 of 6 compliant" (lead in solderable interface only).

Terminals and Splices

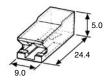


E-SPRING Contact



Wire Range mm ²	Insulation Diameter	Tab Thickness	Material Thickness	Material	Part Number On reel
0.3-0.8	2.3-3.3	0.8	0.4	Brass	336074-1
0.3-0.8	2.3-3.3	0.8	0.4	Tin plated brass	336074-3
0.5-1.5	2.3-3.3	0.8	0.4	Brass	336075-1
0.5-1.5	2.3-3.3	0.8	0.4	Tin plated brass	336075-3
0.5-1.5	2.3-3.3	0.8	0.4	Nickel plated steel	336075-5
1.0-2.5	3.0-4.3	0.8	0.4	Brass	336076-1
1.0-2.5	3.0-4.3	0.8	0.4	Tin plated brass	336076-3
1.0-2.5	3.0-4.3	0.8	0.4	Nickel plated steel	336076-5

Insulation Sleeves



Wire Range mm²	Material	Part Number
3.6	Poliamide 6/6 V-2 Natural	336524-1
3.6	Poliamide 6/6 V-2 Black	336524-2
3.6	Poliamide 6/6 V-0 Natural	1-336524-1
3.6	Poliamide 6/6 V-0 Black	1-336524-2

Terminal PN	Wire Range mm²	Hand Tool
336074-1	0.3 – 0.8	8-1579021-6
336074-3	0.3 – 0.6	0-13/9021-0
336075-1		
336075-3	0.5 - 1.5	6-1579001-2
336075-5		
336076-1		
336076-3	1.0 - 2.5	6-1579001-3
336076-5		

Strip Contacts:

HD-I Applicator

To help you to establish the correct PN for your application (options), please visit the Applicator page on our Tooling website (address below) and enter your Terminal PN in the search function.

Or alternatively call your local contact for personal assistance.







(Images are representative only.)

To find up to date equipment options and contacts please visit: www.tooling.tycoelectronics.com/europe