

FASTIN-FASTON Product Line

Product Facts

- Used for single and multiple connections
- Receptacles and tabs available for 6.3, 4.8 and 2.8 mm size (.250 – .187 and .110 Series)
- Receptacles mate with 0.5 and 0.8 thick tabs
- IEC 60335-1, Glow Wire 750° No Flame housings available
- RoHS Compliant

Material and Finish

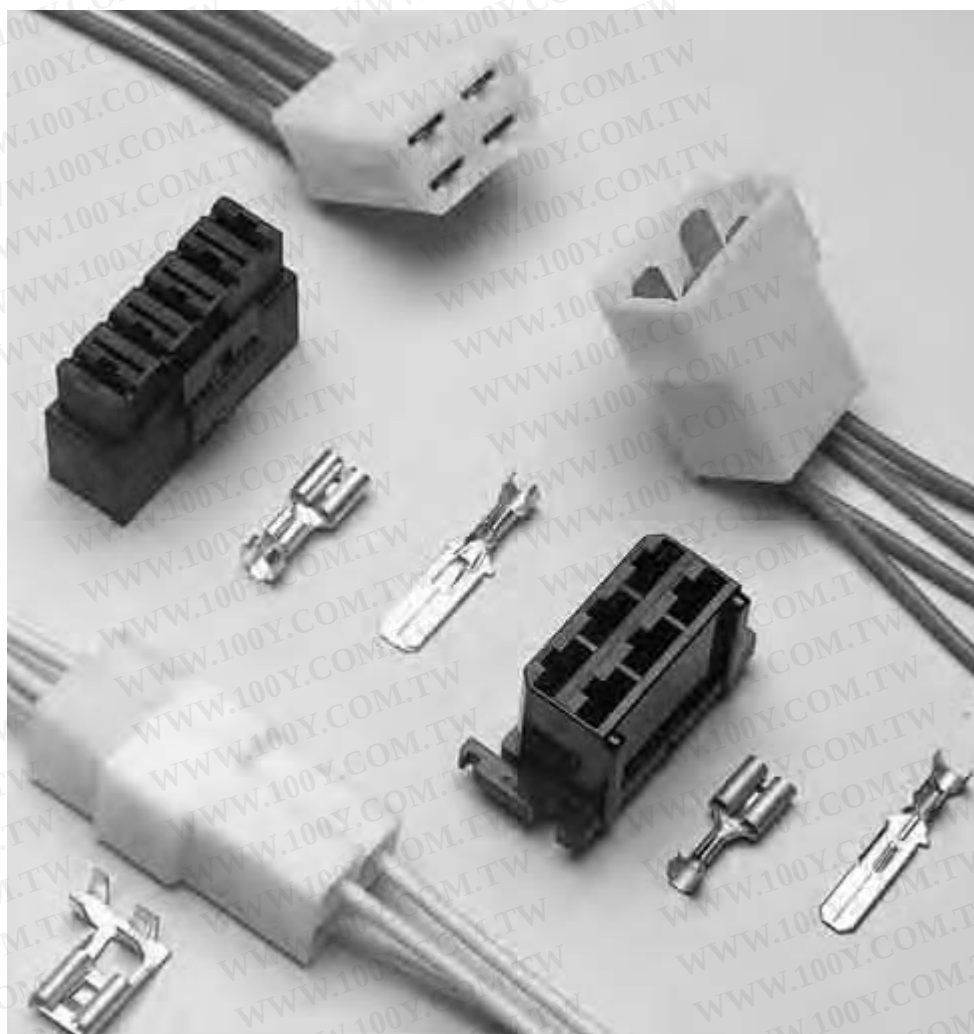
Contacts — Brass, and phosphor bronze base material. Tin and nickel plated products available

Housings — Polyamide UL 94 V2 and UL 94 V0

Technical Documents

Application Specifications

114-2025 FASTIN-FASTON Product Line



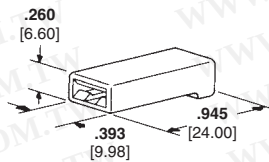
TE FASTIN-FASTON connectors offer the advantage of the FASTON receptacles technology in multiple applications. In wiring harnesses, they are mainly used as multiposition and coupling connectors. Up to 8 position connectors can be mated in one operation with a maximum of 20 leads terminated.

Locking Contacts

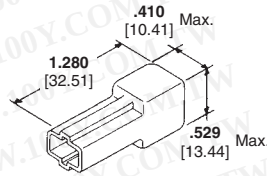
Receptacles and tabs in this version comply fully with the FASTON receptacles product technology. The only difference is the addition of a locking lance, which helps ensure firm retention of contacts when snapped into housings. Wiring harnesses prefabricated with male or female connectors can be easily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

FASTIN-FASTON Product Line (Continued)

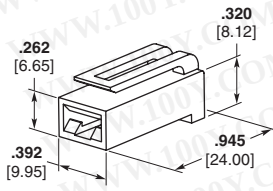
250 Series (6.3 mm) Single Position Connectors (Housings)



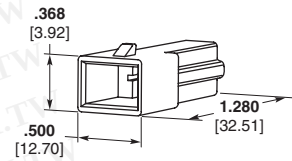
A — Receptacle Housing



B — Tab Housing



C — Receptacle Housing

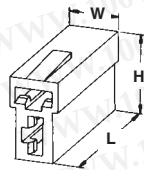


D — Tab Housing

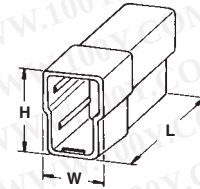
Style	Material	Color	UL 94	Note	Part Number	UL	SP
A	Nylon	Natural	V2	—	480054-3	X	X
		Black	V2	—	480054-4	X	X
		Red	V2	—	480054-5	X	X
B	Nylon	Natural	V0	—	521290-1	X	X
		Natural	V2	—	480053-3	X	X
		Black	V2	—	480053-4	X	X
		Red	V2	—	480053-5	X	X
C	Nylon	Natural	V0	—	521289-1	X	X
		Natural	V2	—	521743-1	X	X
D	Nylon	Natural	V2	—	521744-1	X	X

¹ Flammability rating.

250 Series (6.3 mm) 2 Position Connectors



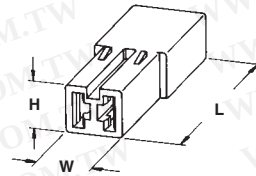
D — Receptacle Housing



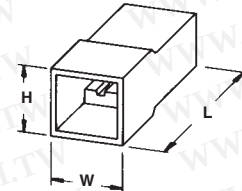
E — Tab Housing

Style	Material	Color	UL 94	Note	Dimensions (mm)			Part Number	UL	SP
					W	L	H			
D	Nylon	Natural	V2	—	.402	.902	.654	180907-0	—	—
		Black	V2	—	10.2	22.9	16.6	180907-5	—	—
		Natural	V0	GWT 750° No Flame				1-180907-0	—	—
E	Nylon	Natural	V2	—	.500	1.224	.791	180908-0	—	—
		Black	V2	—	12.7	31.1	20.1	180908-5	—	—
		Natural	V0	GWT 750° No Flame				880310-8	—	—

250 Series (6.3 mm) 2 Position Connectors



F — Receptacle Housing



G — Tab Housing

Style	Material	Color	UL 94	Note	Dimensions (mm)			Part Number	UL	SP
					W	L	H			
F	Nylon	Natural	V2	—	.492	.902	.394	180923-0	X	—
		Black	V2	—	12.50	22.9	10.0	180923-5	X	—
		Natural	V0	—				4-180923-0	X	—
G	Nylon	Natural	V2	—	.598	1.240	.520	180924-0	X	—
		Black	V2	—	15.2	31.5	13.2	180924-5	X	—
		Natural	V0	—				4-180924-0	X	—

Note: All part numbers are RoHS compliant.

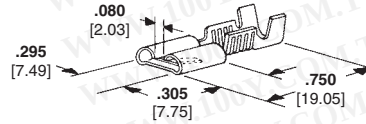
FASTIN-FASTON Product Line (Continued)

250 Series

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

Fits Tab — .032 [0.81]

Stock Thickness — .016 [0.41]



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

¹ No front slot.

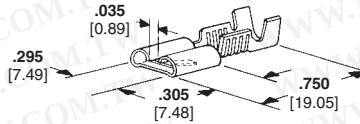
² Quick-change applicator for AMP-O-LETRIC machine 565435-5.
For AMPOMATOR machine and other machines not listed, contact TE.

250 Series

Receptacles without Mating Dimple
(For use with multiple circuit connectors)

Fits Tab — .032 [0.81]

Stock Thickness — .012 [0.30]



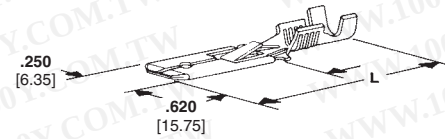
Wire Range AWG	Insulation Diameter	Material and Finish	Terminal Part Number	UL	CS	Quick-Change Applicator No. ¹
22-18	.085-.125 2.16-3.18	Tin Plated Brass	60295-2	X	X	687981-2
	.060-.100 1.52-2.54	Tin Plated Brass	60413-1	X	X	687979-3
18-14	.100-.170 2.54-4.32	Brass	42100-1	X	X	687932-2
		Tin Plated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

¹ Quick-change applicator for AMP-O-LETRIC machine 565435-5.
For AMPOMATOR machine and other machines not listed, contact TE.

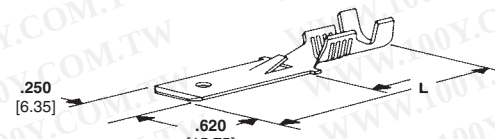
250 Series

Tabs
(For use with single or multiple circuit connectors)

Stock Thickness — .015 [0.38]



A



B

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

¹ Used for back-to-back with a combined thickness of .032 [0.81].

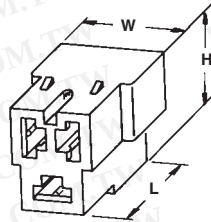
² Quick-change applicator for AMP-O-LETRIC machine 565435-5.
For AMPOMATOR machine and other machines not listed, contact TE.

³ 9600 cma max.

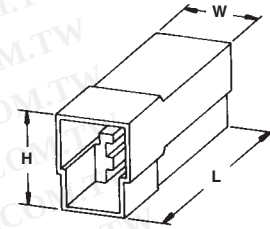
Note: All part numbers are RoHS compliant.

FASTIN-FASTON Product Line (Continued)

250 Series (6.3 mm) 3 Position Connectors



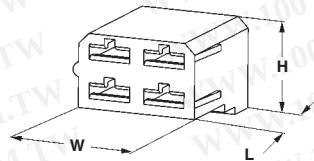
G — Receptacle Housing



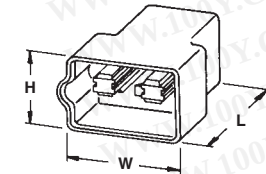
H — Tab Housing

Style	Material	Color	UL 94	Note	Dimensions (mm)			Part Number	UL	SP
					W	L	H			
G	Polyamide	Natural	V2	—	.598	.902	.705	180941-0	—	—
		Black	V2	—	15.2	22.9	17.9	180941-5	—	—
		Natural	V2	GWT 750° No Flame				2-180941-0	—	—
E	Polyamide	Natural	V2	—	.598	1.252	.783	180940-0	—	—
		Black	V2	—	15.2	31.8	19.9	180940-5	—	—
		Natural	V2	GWT 750° No Flame				2-180940-0	—	—

250 Series (6.3 mm) 4 Position Connectors



L — Receptacle Housing



M — Tab Housing

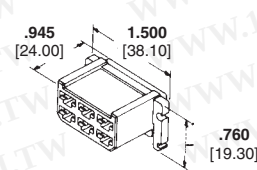
Style	Material	Color	UL 94	Note	Dimensions (mm)			Part Number	UL	SP
					W	L	H			
L	Polyamide	Natural	V2	—	.909	.949	.606	180900-0	X	—
		Black	V2	—	23.1	24.1	15.4	180900-5	X	—
		Natural	V0	GWT 750° No Flame				2-880110-0	—	—
M	Polyamide	Natural	V2	—	1.031	1.240	.650	180901-0	X	—
		Black	V2	—	26.2	31.5	16.5	180901-5	X	—
		Natural	V0	GWT 750° No Flame				2-626541-0	—	—

Note: All part numbers are RoHS compliant.

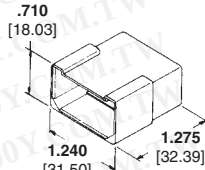
FASTIN-FASTON Product Line (Continued)

250 Series

6 Circuit Connectors (Housings)



Receptacle Housing



Tab Housing

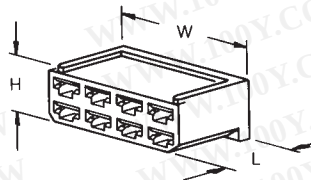
Material	UL 94 ¹	Color	Part Numbers			
			Receptacle	Tab		
Nylon	V2	Natural	480003-5	480004-5	X	X
		Black	1-480281-0 ²	1-480282-0	X	X

¹ Flammability rating.

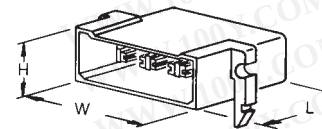
² No mounting ears.

250 Series (6.3 mm)

8 Position Connectors



Q — Receptacle Housing



R — Tab Housing

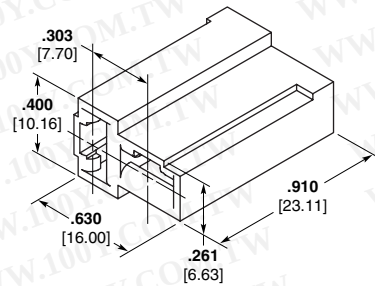
Style	Material	Color	UL 94	Note	Dimensions (mm)			Part Number		
					W	L	H			
Q	Polyamide	Natural	V2	—	1.484 37.7	.949 24.1	.654 16.6	163007-0	—	—
R	Polyamide	Natural	V2	—	1.579 40.1	1.283 32.6	.720 18.3	163008-0	—	—

Note: All part numbers are RoHS compliant.

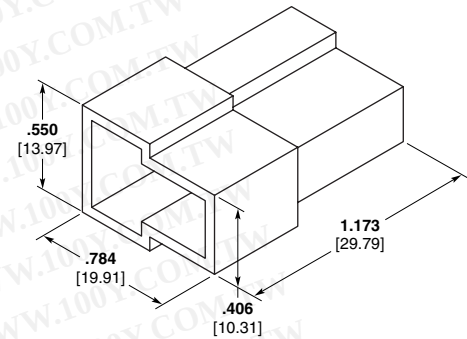
FASTIN-FASTON Product Line (Continued)

250 Series

2 Circuit "T" Housing



Receptacle Housing



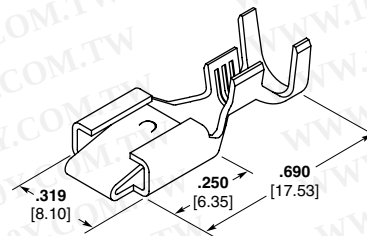
Tab Housing

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

¹ Flammability rating.

² For use only with packard style tabs.

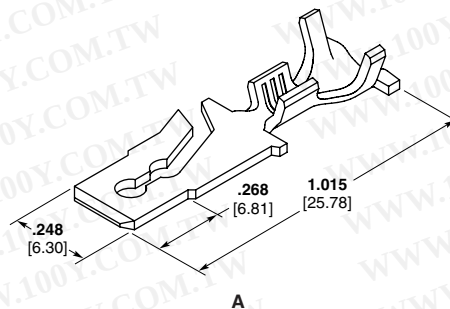
Packard Style Receptacles



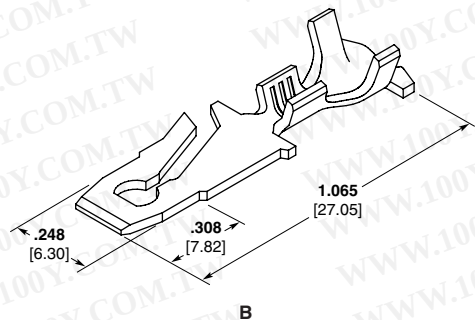
Wire Range AWG	Insulation Diameter	Material and Finish	Terminal Part Number			Applicator No.
20-16	.145 3.68 Max.	Brass	640841-1	—	—	466791-2
		Brass	640417-1	—	—	466704-2
18-14	.154 3.91 Max.	Pre-Tin Plated Brass	640417-2	—	—	466704-2
		Brass	640418-1 ¹	—	—	466704-2
		Pre-Tin Plated Brass	640418-2 ¹	—	—	466704-2

¹ No Dimple.

Packard Style Tabs



A



B

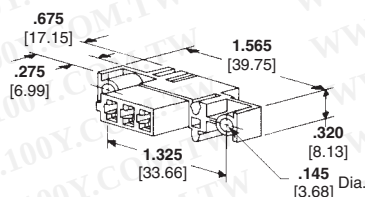
Wire Range AWG	Style	Stock Thk.	Insulation Diameter	Material and Finish	Terminal Part Number			Applicator No.
18-14	A	.032 0.81	.100-.142 2.54-3.61	Brass	640416-1	—	—	466707-4
		.032 0.81	.110-.142 2.79-3.61	Tin Plated Brass	640416-2	—	—	466707-4
16-14	B	.032 0.81	.090-.130 2.29-3.30	Tin Plated Brass	60794-2	—	—	687888-6
14-12	A	.032 0.81	.140-.175 3.56-4.45	Tin Plated Brass	1217148-1	—	—	680808-2

Note: All part numbers are RoHS compliant.

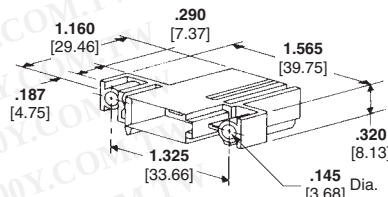
FASTIN-FASTON Product Line (Continued)

187 Series

Modular Connector Housings



Receptacle Housing



Tab Housing

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

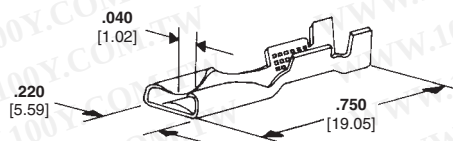
¹ Flammability rating.

² Special mounting mates with all receptacle housings listed above.

187 Series

Modular Connector Receptacles

Fits Tab — .016 [0.41]

Insulation Diameter —
.090-.130 [2.29-3.30] or
(2) .110 [2.79] Max.


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

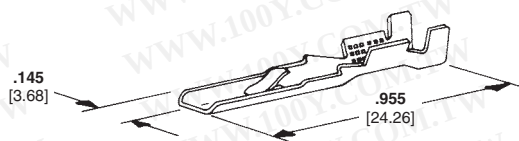
¹ Quick-change applicator for AMP-O-LECTRIC machine 565435-5.

For AMPOMATOR machine and other machines not listed, contact TE.

187 Series

Modular Connector Tabs

Tab Thickness — .016 [0.41]

Insulation Diameter —
.090-.130 [2.29-3.30]
or (2) .110 [2.79] Max.


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

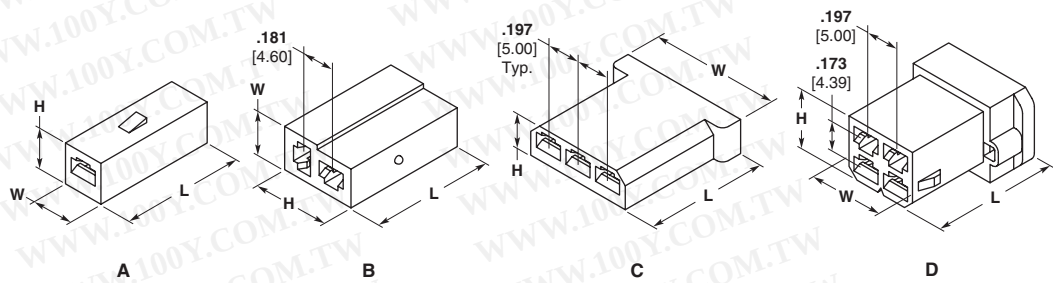
¹ Quick-change applicator for AMP-O-LECTRIC machine 565435-5.

For AMPOMATOR machine and other machines not listed, contact TE.

Note: All part numbers are RoHS compliant.

FASTIN-FASTON Product Line (Continued)

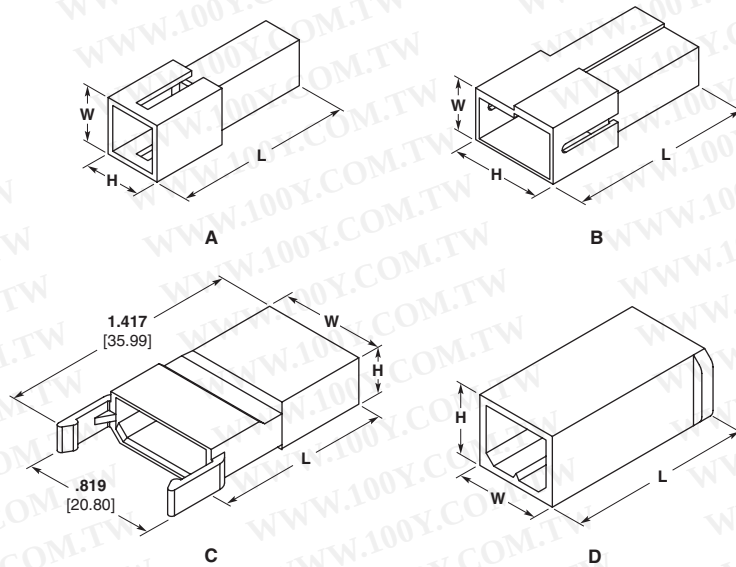
110 Series Receptacle Housings



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

¹ Not shown.

110 Series Tab Housings

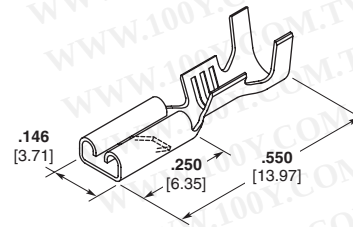


Type	Number of Positions	Material	Color	Dimensions			Part Number	UL	SP
				W	H	L			
A	1	Nylon	Natural	.327 8.31	.327 8.31	1.00 25.43	626063-0	—	—
B	2	Nylon	Natural	.264 6.71	.516 13.11	1.00 25.43	626065-0	—	—
C	3	Nylon	Natural	.629 15.98	.284 7.21	1.08 27.48	925475-1	—	—
	3	Nylon	Black	.629 15.98	.284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

Note: All part numbers are RoHS compliant.

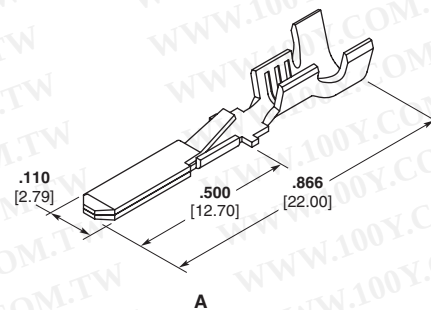
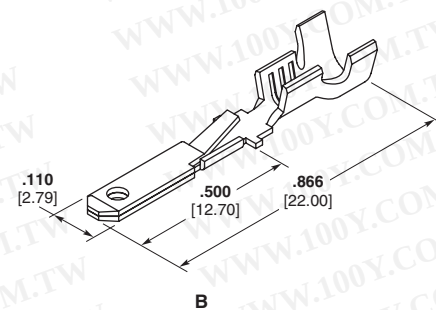
FASTIN-FASTON Product Line (Continued)

110 Series Receptacles



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

110 Series Tabs



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

Note: All part numbers are RoHS compliant.

FASTIN-FASTON Product Line — Tab Housings RAST 5

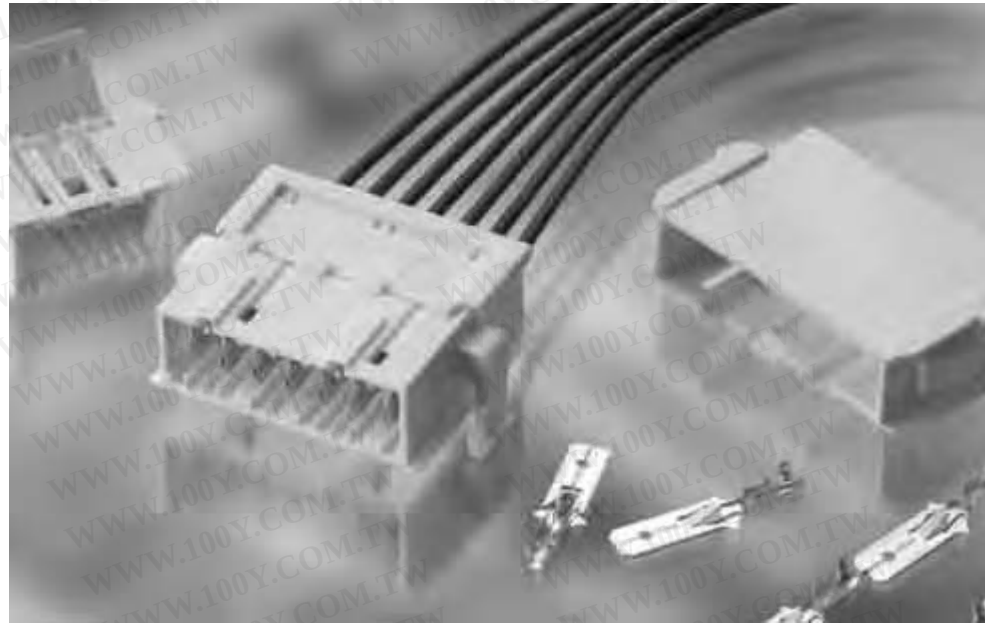
Product Facts

- Meets IEC 60335-1, Glow Wire 750° No Flame
- Accepts TE FASTIN-FASTON tabs 6.3 x 0.8 mm size
- Mating TE connector families include AMP MONO-SHAPE, AMP multifitting, AMP standard timer and Positive Lock RAST 5 connector system
- Available in different keying and locking versions, from 2 to 10 positions
- Available for panel and motor mounting
- Provided with secondary locking
- RoHS compliant

Technical Documents

Product Specifications

108-20256 Panel Mount Housings
108-20247 Panel Mount Housings



The RAST 5 Standard defines and standardizes the connector mating interface. FASTIN-FASTON product line 6.3 mm size tabs are placed into 5 mm centerline cavities and the housings are provided with keying, polarization, and locking features that help prevent mismatching of the corresponding RAST 5 interfaces.

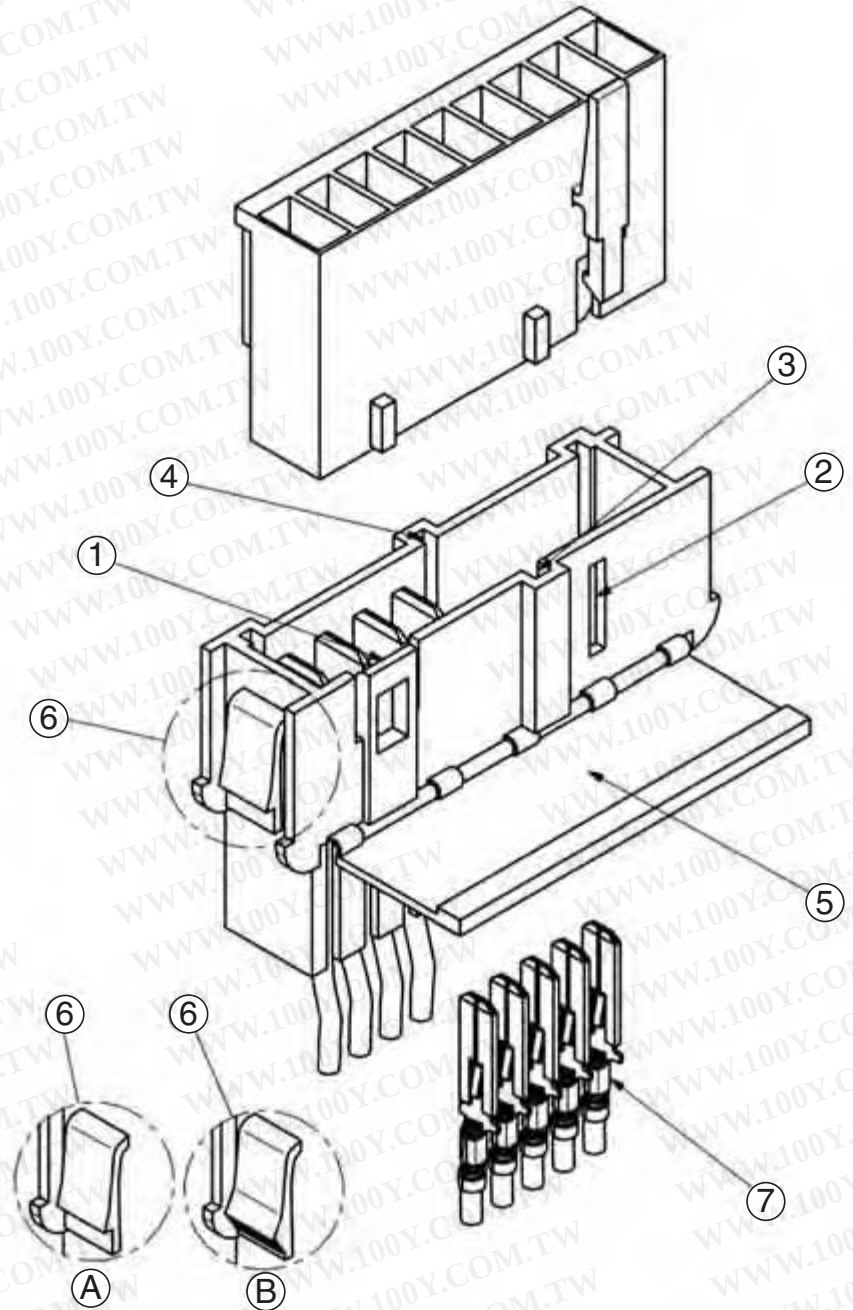
The FASTIN-FASTON RAST 5 system is designed to accept the most common TE RAST 5 connector families including AMP MONO-SHAPE, AMP multifitting, AMP standard timer and Positive Lock RAST 5 connector system. The Positive Lock RAST 5 connector system requires the use of a FASTIN-FASTON tab with a special detent hole location to engage the positive locking feature.

The most common application for this product is for household appliance components (motors for washing machines, dishwashers, dryers, refrigerators...) where OEM's want to minimize the possibility of crossed wires.

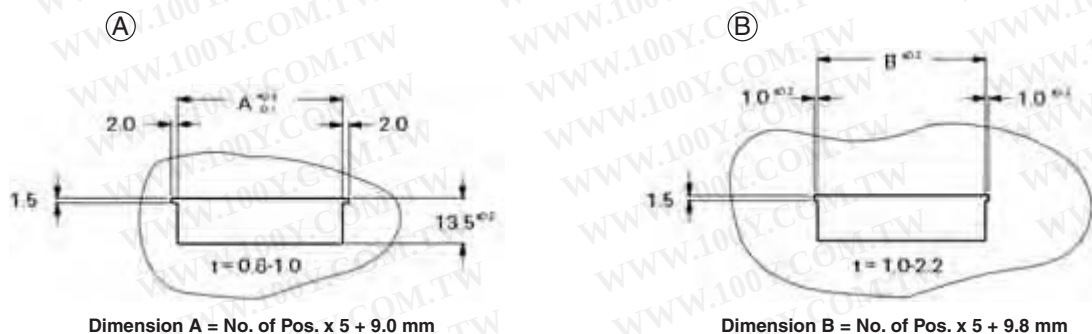
FASTIN-FASTON Product Line — Tab Housings RAST 5 (Continued)

Technical Features

- ① Locking tongue locks with the keying rib of the counter part (see table)
 - ② Locking window locks with locking latches of the counter part (see table)
 - ③ Keying groove
 - ④ Polarization groove
 - ⑤ Cover (secondary locking)
 - ⑥ Panel locking
 - ⑦ Tabs 6.3 x 0.8 mm (see table)
- A** For panel thickness from 0.8 up to 1.0 mm
B For panel thickness from 1.0 up to 2.2 mm



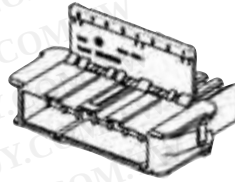
Panel Cut-Outs



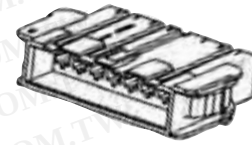
FASTIN-FASTON Product Line — Tab Housings RAST 5 (Continued)

Panel Mount Housings

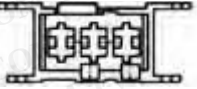
Material — Polyamide
Color — Natural



C — with Secondary Locking



D — without Secondary Locking

Positions	RAST 5 Polarizations	Panel Cut-Out	Style	UL 94	Note	Part Number
2		A	C	V2	GWT 750° No Flame	9-927742-2
				V0	—	927742-2
			D	V2	—	5-927742-2
				V0	—	5-293035-2
		B	C	V2	—	964492-2
				V0	—	5-964492-2
3		A	C	V2	GWT 750° No Flame	293008-1
					—	928230-3
					GWT 750° No Flame	9-927742-3
					—	927742-3
4		A	C	V2	GWT 750° No Flame	9-927742-3
					—	927742-3
					GWT 750° No Flame	293009-1
					—	293009-2
		A	C	V2	GWT 750° No Flame	9-927742-4
					—	927742-4
5		A	C	V2	GWT 750° No Flame	293011-1
					—	927742-5
					GWT 750° No Flame	5-964492-5
					—	964492-5
		B	C	V2	GWT 750° No Flame	293010-1
					—	293010-2
					—	1241857-5
					—	293161-1

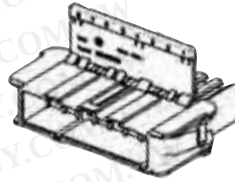
FASTIN-FASTON Product Line — Tab Housings RAST 5 (Continued)

Panel Mount Housings

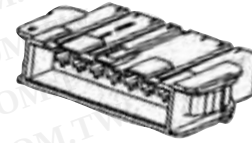
(Continued)

Material — Polyamide

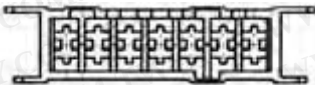
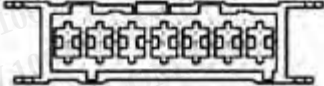
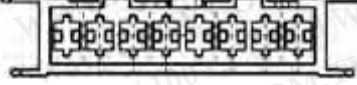
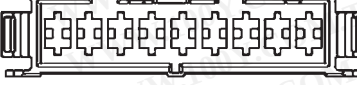
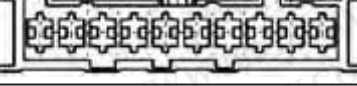
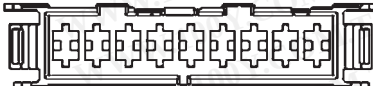
Color — Natural



C — with Secondary Locking



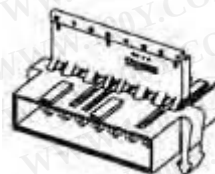
D — without Secondary Locking

Positions	RAST 5 Polarizations	Panel Cut-Out	Style	UL 94	Note	Part Number
6		A	C	V2	—	927742-6
				V0	—	5-927742-6
		B	D	V2	GWT 750° No Flame	5-1241967-6
		A	C	V2	GWT 750° No Flame	293034-1
7		A	C	V2	GWT 750° No Flame	293044-1
		A	C	V2	—	927742-7
		A	C	V2	GWT 750° No Flame	284985-1
		A	C	V2	—	928309-7
		A	C	V2	GWT 750° No Flame	284986-1
		A	C	V2	—	928309-8
8		B	C	V2	GWT 750° No Flame	293043-1
			D	V2	GWT 750° No Flame	5-1241967-8
		A	D	V2	—	1241967-8
		A	D	V2	GWT 750° No Flame	5-1241969-8
		A	D	V2	—	1241969-8
9		B	D	V2	GWT 750° No Flame	293033-1
10		A	D	V2	GWT 750° No Flame	1-1241968-5
						1-1241968-0

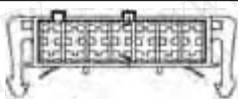
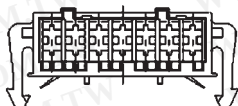
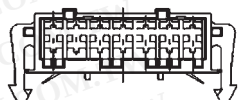
FASTIN-FASTON Product Line — Tab Housings RAST 5 (Continued)

Motor Mount Housings

Material — Polyamide
Color — Natural



E

Positions	RAST 5 Polarizations	Panel Cut-Out	Style	UL 94	Note	Part Number
7		—	E	V2	GWT 750° No Flame	293014-1
		—	E	V2	GWT 750° No Flame	293015-1
		—	E	V2	GWT 750° No Flame	1-293015-1
8		—	E	V2	GWT 750° No Flame	284861-1
				V0	—	284861-3

FASTON Uninsulated Terminals — Loose Piece

FASTON Terminals Strip/Loose Piece Cross Reference

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

RECEPTACLES 250 Series

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

Receptacles 187 Series

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

Receptacles 110 Series

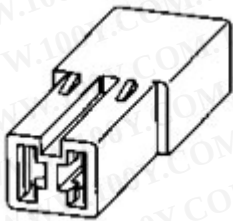
Wire Range AWG	Strip Part No.	Loose Piece Part No.	Description	Hand Tool Part No.
22-18	42068-1	42470-1	Receptacle	91511-1
	62003-2	62112-2	Receptacle/Tab Combination	—
	60900-1	61454-1	Tab Receptacle	—

250 Series Tabs

Wire Range AWG	Strip Part No.	Loose Piece Part No.	Description	Hand Tool Part No.
22-18	60294-1	61316-1	FASTIN-FASTON	91514-1
18-14	41412	41778	Crimp Type	—
	42460-2	42565-2	FASTIN-FASTON	90165-1

Note: All part numbers are RoHS compliant.

Product Details for 180923



180923

Multiple Circuit Housings with Tabs and Receptacles Including
FASTIN-FASTON

Product Highlights:

勝 特 力 材 料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

- Product Type = Receptacle Housing
- Number of Circuits = 2
- Tab Fit = 6.35 mm
- Packaging Method = Loose Piece
- Color = Natural

Industry Standards:

Product Type Features:

- Product Type = Receptacle Housing
- Number of Circuits = 2
- Tab Fit (mm [in]) = 6.35 [.250]
- Color = Natural
- FASTON = Yes
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant

Body Related Features:

- UL Rating = Recognized

Packaging Related Features:

- Packaging Method = Loose Piece
- Packaging Quantity = 2,000

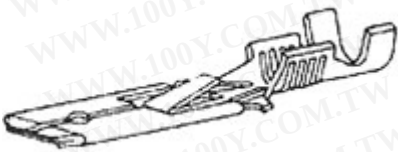
Housing Related Features:

- Housing Material = Polyamide 6.6

Other:

- Line = FASTIN-FASTON .250
- Brand = AMP

Product Details for 61316-1



61316-1

Multiple Circuit Housings with Tabs and Receptacles Including FASTIN-FASTON

Product Highlights:

勝 特 力 材 料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

- Product Type = Tab
- Tab Fit = 6.35 x 0.81 mm
- Wire Range = 0.30-0.90² [22-18] mm [AWG]
- Insulation Diameter = 2.16-3.18 [.085-.125] mm [in]
- Wire/Cable Type = Regular Wire

Body Related Features:

- Wire Range (mm [AWG]) = 0.30-0.90² [22-18]
- Stock Thickness (mm [in]) = 0.38 [0.015]

Product Type Features:

- Product Type = Tab
- Tab Fit (mm [in]) = 6.35 x 0.81 [.250 x .032]
- Insulation Diameter (mm [in]) = 2.16-3.18 [.085-.125]
- Wire/Cable Type = Regular Wire
- Finish = Tin
- Material = Brass
- Insertion Force = Normal
- Insulation Support = With
- Crimp Type = "F"
- FASTON = Yes
- For Housing Type = Multiple

Industry Standards:

- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant

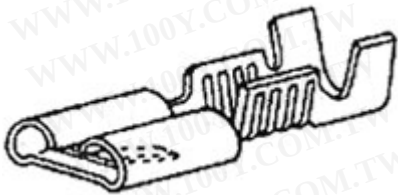
Packaging Related Features:

- Packaging Method = Loose Piece

Other:

- Line = FASTIN-FASTON .250
- Brand = AMP

Product Details for 60838-1



60838-1

Multiple Circuit Housings with Tabs and Receptacles Including FASTIN-FASTON

Product Highlights:

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

- Product Type = Receptacle
- Tab Fit = 6.35 x 0.81 mm
- Wire Range = 0.30-0.90² [22-18] mm [AWG]
- Insulation Diameter = 2.16-3.18 [.085-.125] mm [in]
- Receptacle Style = Straight

Body Related Features:

- Wire Range (mm [AWG]) = 0.30-0.90² [22-18]

Product Type Features:

- Product Type = Receptacle
- Tab Fit (mm [in]) = 6.35 x 0.81 [.250 x .032]
- Insulation Diameter (mm [in]) = 2.16-3.18 [.085-.125]
- Receptacle Style = Straight
- Wire/Cable Type = Regular Wire
- Finish = Tin
- Material = Brass
- Insertion Force = Normal
- Insulation Support = With
- Crimp Type = "F"
- FASTON = Yes

Industry Standards:

- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant

Packaging Related Features:

- Packaging Method = Loose Piece

Other:

- Line = FASTIN-FASTON .250
- Brand = AMP

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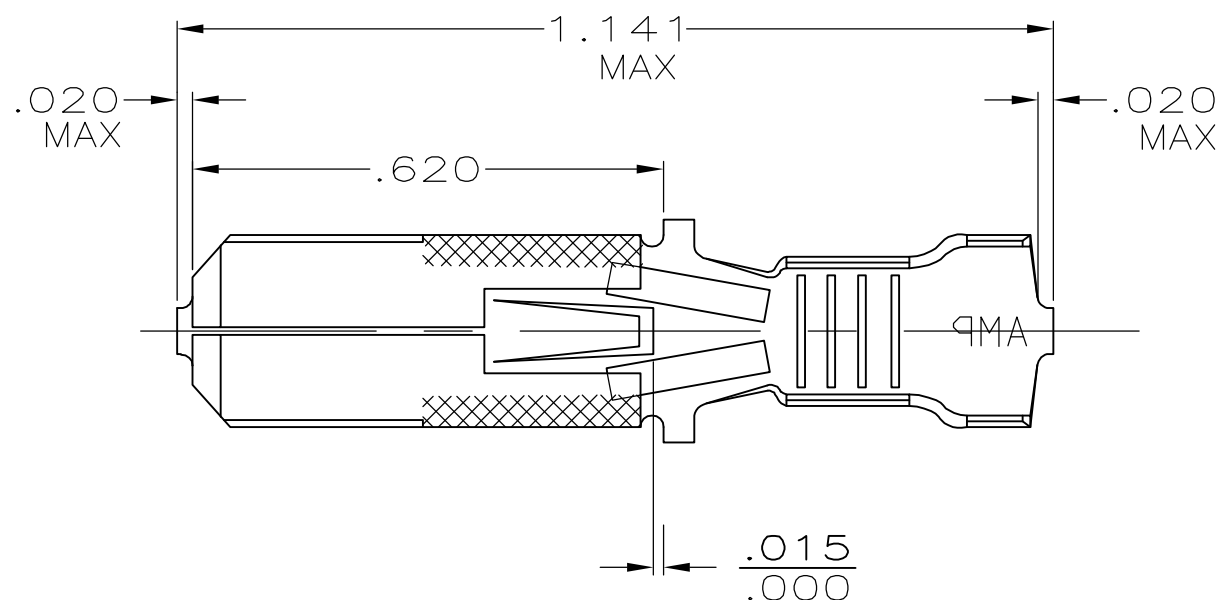
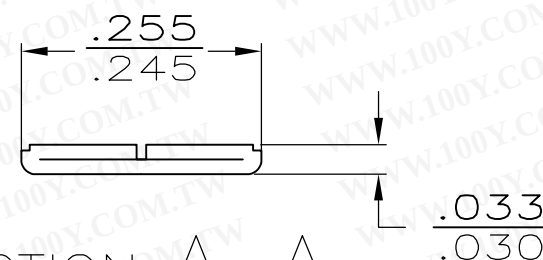
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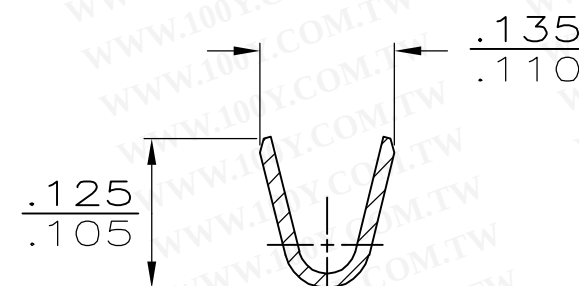
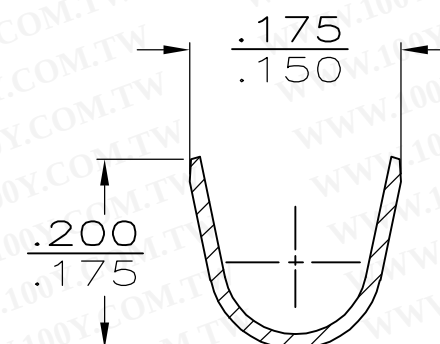
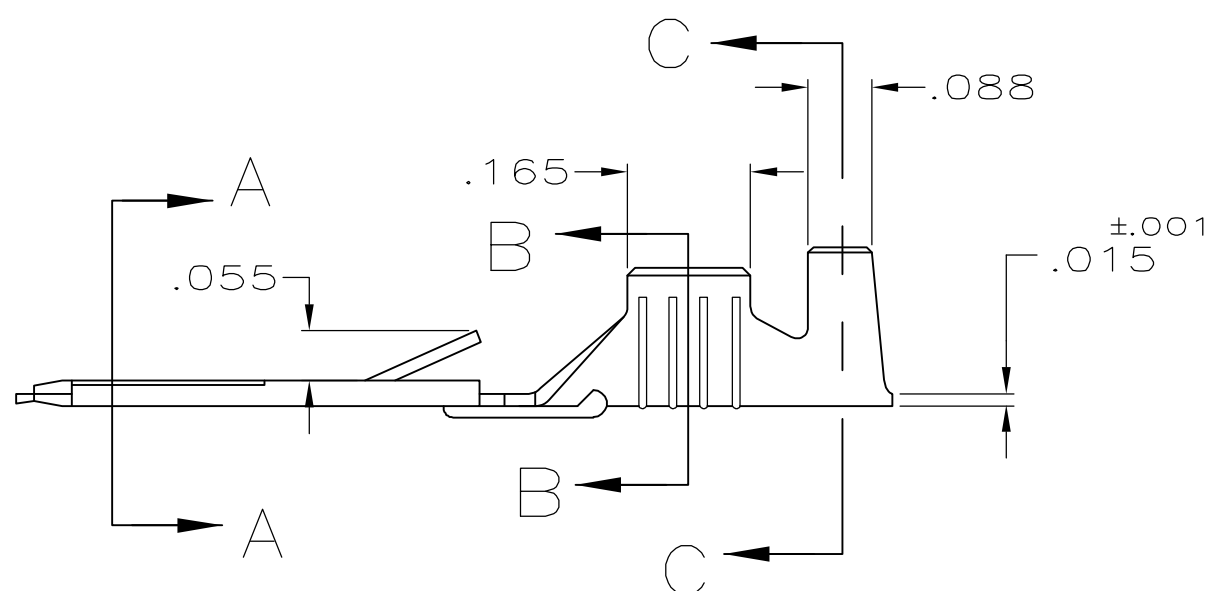
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	D	REV PER ECR 05-017609	27MAR06	JR	KR

1 SUPPLIED IN LOOSE PIECE

SECTION A-A
SCALE 5:1

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

SECTION B-B
SCALE 5:1SECTION C-C
SCALE 5:1

60294-2

.085-.125 DIA

#22-#18 AWG

61316-1

STRIP FORM

INSULATION
RANGE

WIRE SIZE

PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN
JR RUTH

3/2/93

CHK
MS FEHER

3/2/93

APVD
J GILLESPIE

3/2/93

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

-

tyco
ElectronicsTyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME

TAB, FASTIN-FASTON,
.250 SERIES

SIZE

CAGE CODE

DRAWING NO

A3

00779

C-61316

RESTRICTED TO

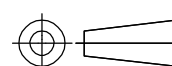
-

CUSTOMER DRAWING

SCALE 4:1

SHEET 1 OF 1

REV D

DIMENSIONS:
INCHESTOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC	± -
1 PLC	± -
2 PLC	± -
3 PLC	± .015
4 PLC	± -
ANGLES	± -

MATERIAL

082 BRASS

FINISH

.000080 MIN TIN

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RELEASED FOR PUBLICATION

,19

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LOC

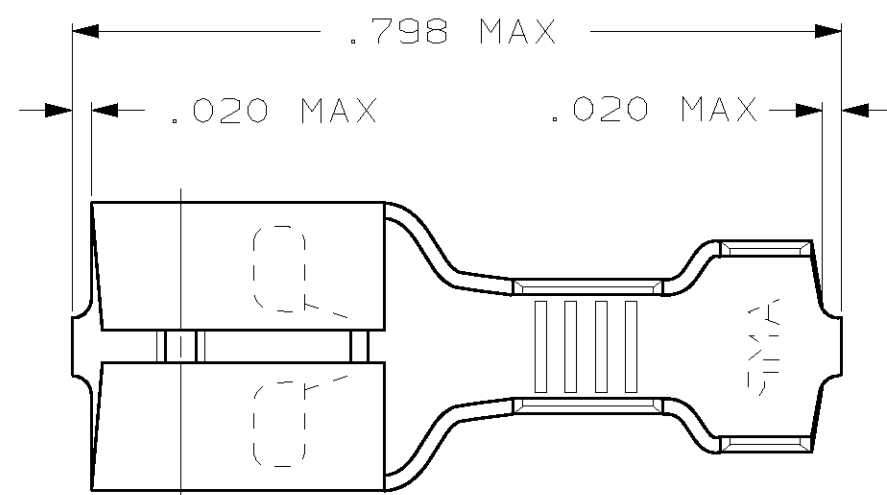
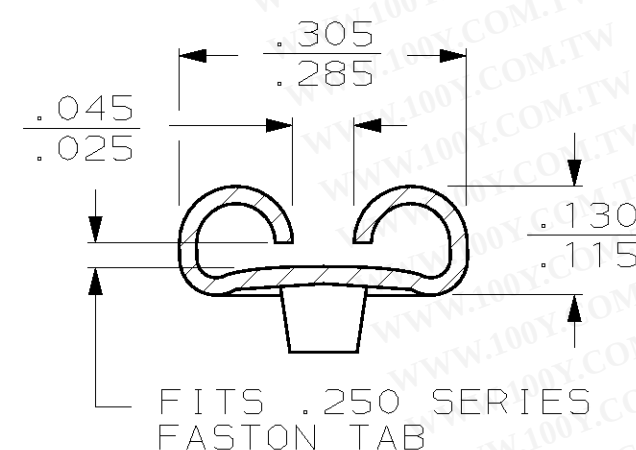
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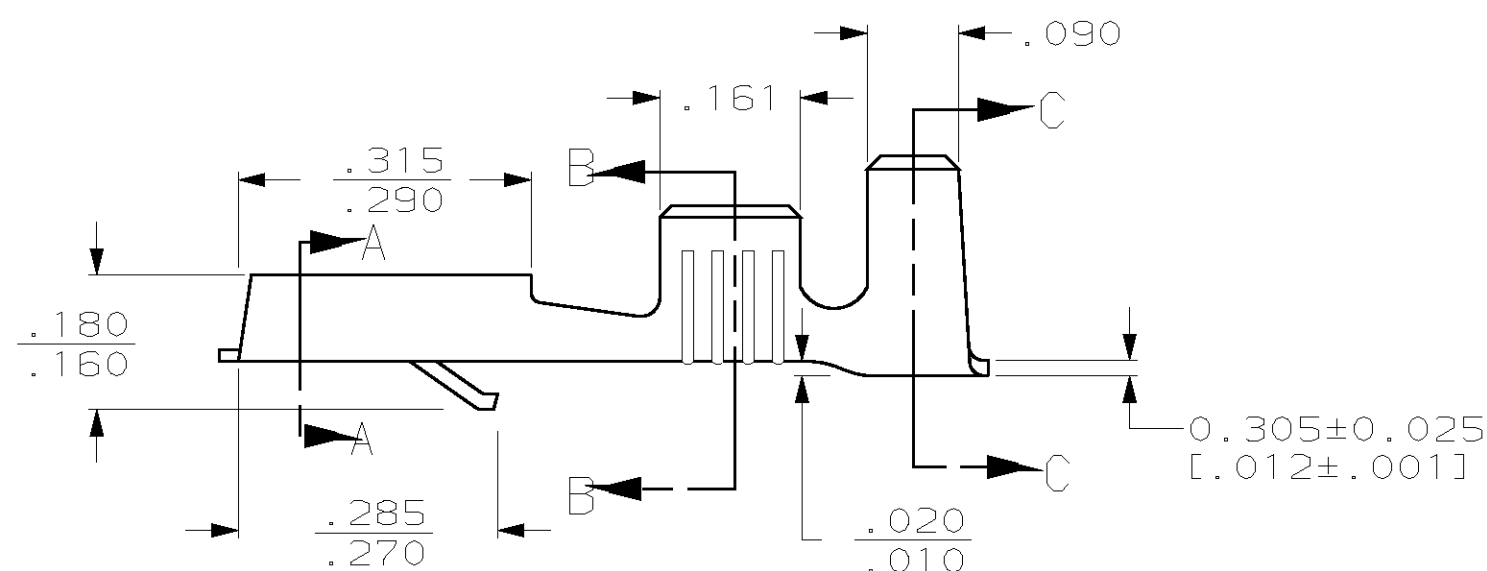
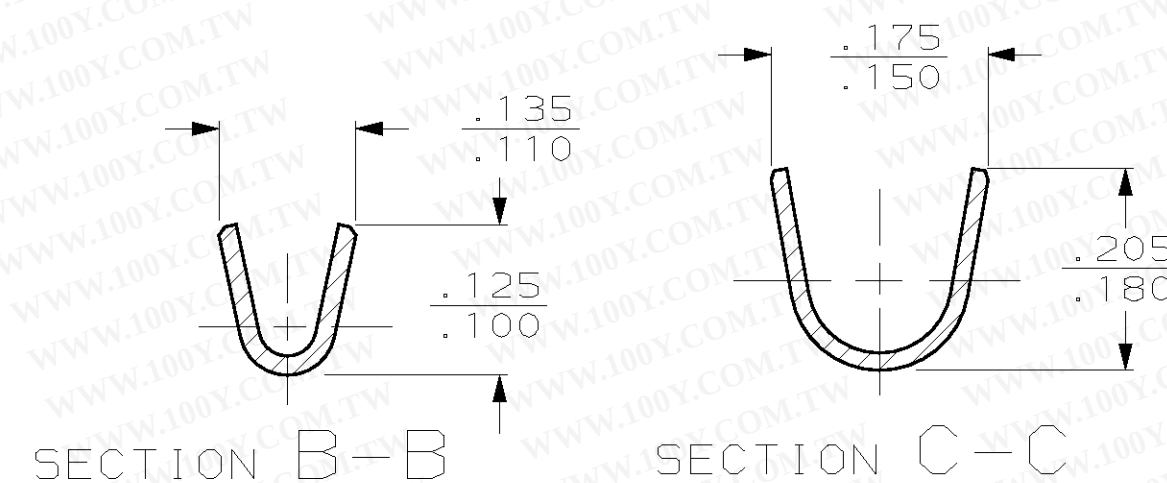
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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	REDRAWN PER 0L10-0025-98	1/29/98	JR	JH



SECTION A-A



SECTION B-B

SECTION C-C

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

60838-1 (60295-2 L.P.)

△ 60838-1

COMBINATION NUMBER

PART NO.

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DWN JR RUTH 1/29/98

CHK MS FEHER 1/29/98

APVD J HUZVAR 1/29/98

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

AMPAMP Incorporated
Harrisburg, PA 17105-3608RECEPTACLE, FASTIN-FASTON,
.250 SERIES

SIZE CAGE CODE DRAWING NO RESTRICTED TO

A3 00779 C- 60838

SCALE 5:1 SHEET 1 OF 1 REV B

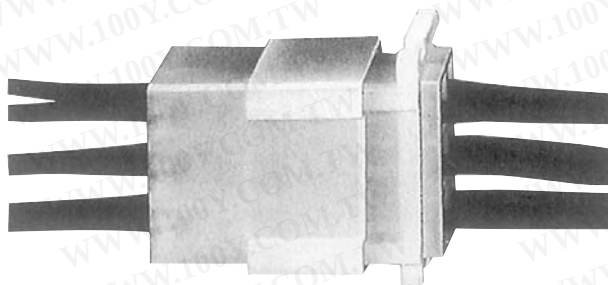
Electronics

FASTIN-FASTON Product Line

FASTIN-FASTON Connectors

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

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

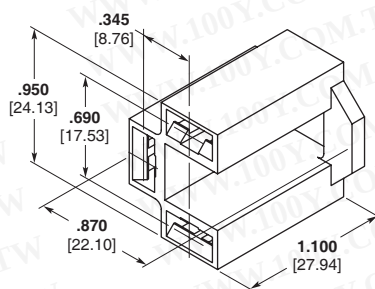


勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Electronics

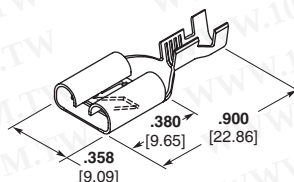
FASTIN-FASTON Product Line (Continued)

**312 Series
Housing**



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

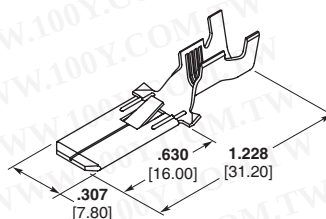
**312 Series
Receptacles**
Fits Tab — .032 [0.81] Thick



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

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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

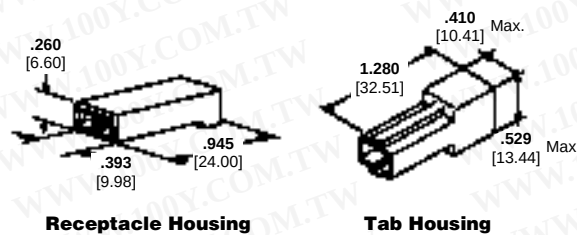


Wire Range AWG	Insulation Diameter	Material and Finish	Terminal Part Number
12-10	.149-.193 3.78-4.90	Brass	170105-1

FASTIN-FASTON Product Line (Continued)

250 Series

**Single Circuit Connectors
(Housings)**



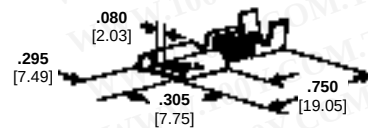
Material	UL 94 ¹	Color	Part Numbers		UL	SP
			Receptacle	Tab		
Nylon	V2	Natural	480054-3	480053-3	X	X
	V2	Black	480054-4	480053-4	X	X
	V2	Red	480054-5	480053-5	X	X
	V0	Natural	521290-1	521289-1	X	X

¹ Flammability rating.

250 Series

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

Fits Tab — .032 [0.81]
Stock Thickness — .016 [0.41]



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

¹ No front slot.

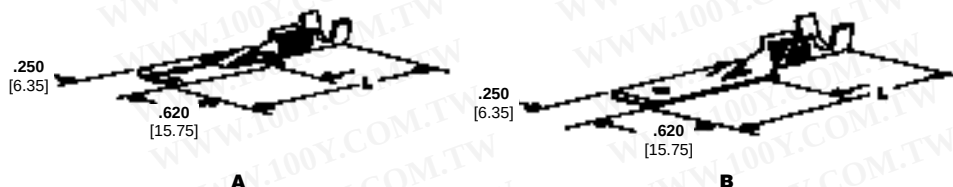
² Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.
For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

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250 Series

**Tabs
(For use with single or
multiple circuit connectors)**

Stock Thickness — .015 [0.38]



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

¹ Used for back-to-back with a combined thickness of .032 [0.81].

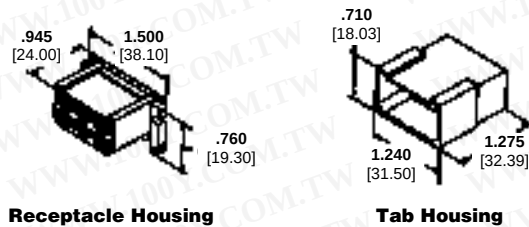
² Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.
For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

Electronics

FASTIN-FASTON Product Line (Continued)

250 Series

6 Circuit Connectors (Housings)



Receptacle Housing

Tab Housing

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

¹ Flammability rating.

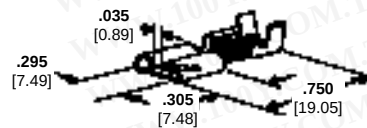
² No mounting ears.

250 Series

Receptacles without Mating Dimple (For use with multiple circuit connectors)

Fits Tab — .032 [0.81]

Stock Thickness — .012 [0.30]



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

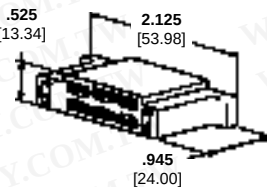
¹ Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.

For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

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250 Series

8 Circuit Connectors (Housings)



Mating Face

8 Circuit Connectors (Receptacle Housing)

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

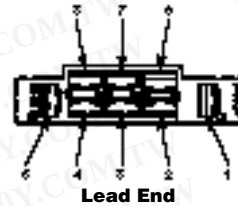
¹ Flammability rating of plastic material.

² All circuits accept receptacles without locking dimple.

250 Series

8 Circuit Connectors (Housings) (Continued)

FASTIN-FASTON Product Line (Continued)



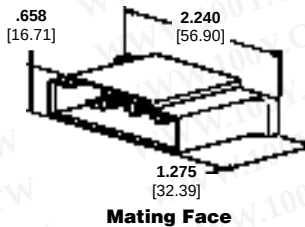
Proper Terminal Placement in Receptacle Housing

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

¹ For dimensions and plating, refer to Terminal Specifications.

² Power receptacle with locking dimple.

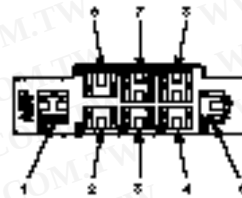
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8 Circuit Connectors (Tab Housings)

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

¹ Flammability rating.



Proper Terminal Placement in Tab Housings

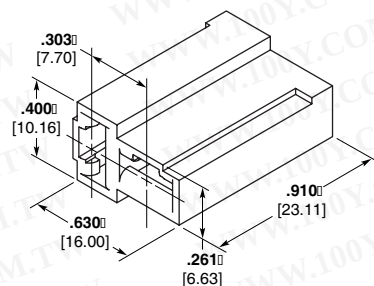
Wire Range AWG	Circuits	Insulation Range	Terminal Part Number ¹	UL	SP
22-18	1 thru 8 (All)	.085-.125 2.16-3.18	62553 ²	X	X
		.100-.170 2.54-4.32	42460 ²	X	X
18-14	1, 7 & 8	.120-.145 3.05-3.68	42580 ²	X	X
	1 thru 8 (All)	.120-.170 3.05-4.32	60701 ²	X	X

¹ For dimensions and plating, refer to Terminal Specifications.

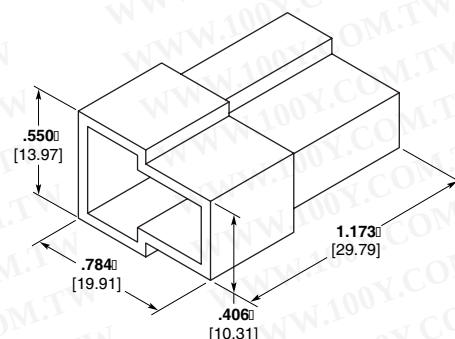
² Back-to-back.

250 Series

2 Circuit "T" Housing



Receptacle Housing



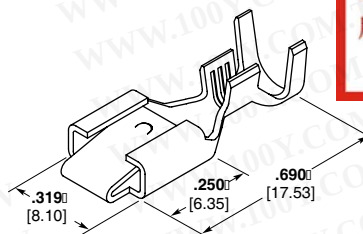
Tab Housing

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

¹ Flammability rating.

² For use only with "Fish Hook" Tabs.

"Packard Style Receptacles"



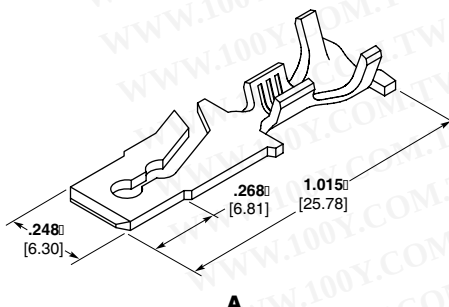
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Wire Range AWG	Insulation Diameter	Material and Finish	Terminal Part Number			Applicator No.
18-14	.154 3.91 Max.	Brass	640417-1	—	—	466704-2
		Pre-Tin-Plated Brass	640417-2	—	—	466704-2
		Brass	640418-1 ¹	—	—	466704-2
		Pre-Tin-Plated Brass	640418-2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

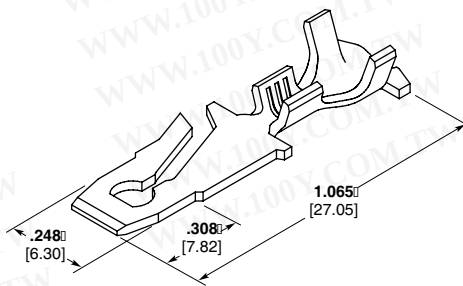
¹ No Dimple.

250 Series

"Fish Hook" Tabs



A



B

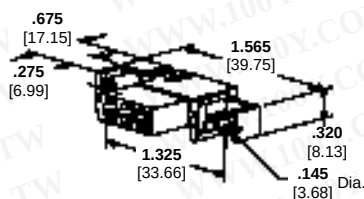
Wire Range AWG	Style	Stock Thck.	Insulation Diameter	Material and Finish	Terminal Part Number			Applicator No.
18-14	A	.032 0.81	.100-.142 2.54-3.61	Brass	640416-1	—	—	466707-4
		.032 0.81	.110-.142 2.79-3.61	Tin-Plated Brass	640416-2	—	—	466707-4
16-14	B	.032 0.81	.090-.130 2.29-3.30	Tin-Plated Brass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

Electronics

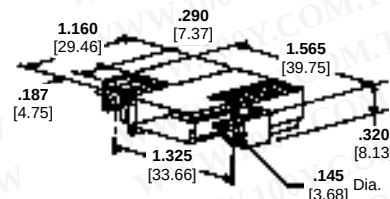
FASTIN-FASTON Product Line (Continued)

187 Series

Modular Connector Housings



Receptacle Housing



Tab Housing

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

¹ Flammability rating.

² Special mounting mates with all receptacle housings listed above.

187 Series

Modular Connector Receptacles

Fits Tab — .016 [0.41]

Insulation Diameter —
.090-.130 [2.29-3.30] or
(2) .110 [2.79] Max.



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

¹ Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.

For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

187 Series

Modular Connector Tabs

Tab Thickness — .016 [0.41]

Insulation Diameter —
.090-.130 [2.29-3.30]
or (2) .110 [2.79] Max.



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

¹ Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.

For AMPOMATOR Machine and other machines not listed, contact Tyco Electronics.

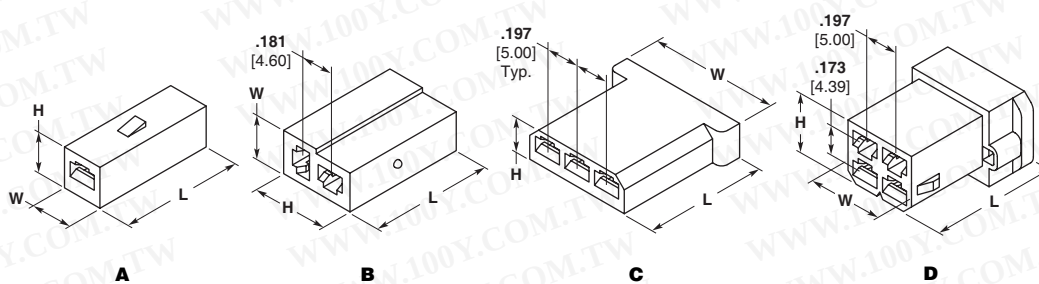
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FASTIN-FASTON Product Line (Continued)

110 Series

Receptacle Housings

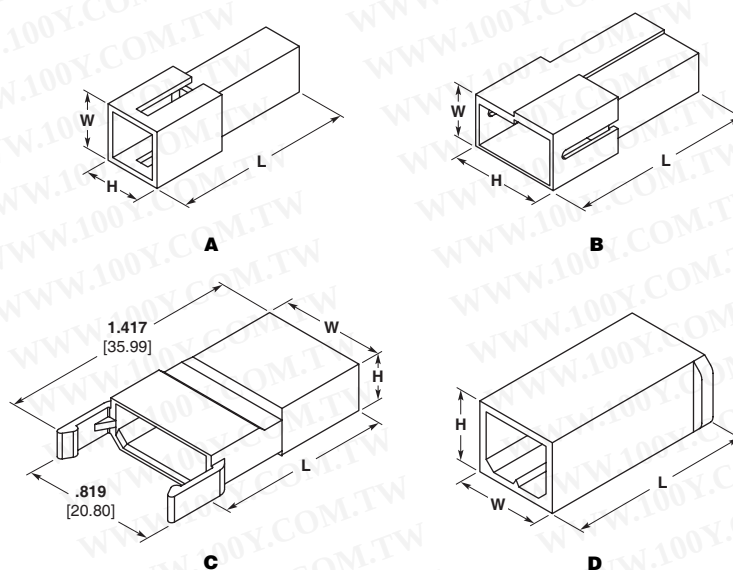


Type	Number of Positions	Material	Color	Dimensions			Part Number	UL	CSA
				W	H	L			
A	1	Nylon	Natural	.236 5.99	.236 5.99	.710 18.01	626062-0	—	—
B	2	Nylon	Natural	.248 6.30	.442 11.23	.710 18.01	626064-0	—	—
	2	Nylon	Natural	.551 14.00	.200 5.00	.710 18.03	925014-0 ¹	—	—
C	3	Nylon	Natural	.748 19.00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

¹ Not shown.

110 Series

Tab Housings



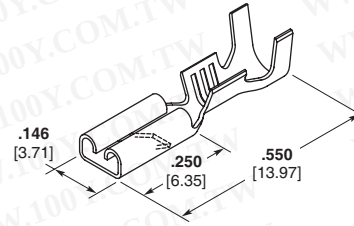
Type	Number of Positions	Material	Color	Dimensions			Part Number	UL	CSA
				W	H	L			
A	1	Nylon	Natural	.327 8.31	.327 8.31	1.00 25.43	626063-0	—	—
B	2	Nylon	Natural	.264 6.71	.516 13.11	1.00 25.43	626065-0	—	—
	3	Nylon	Natural	.629 15.98	.284 7.21	1.08 27.48	925475-1	—	—
C	3	Nylon	Black	.629 15.98	.284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

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Electronics

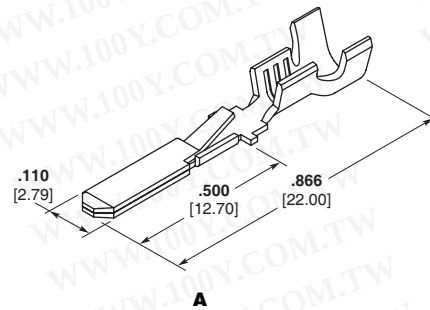
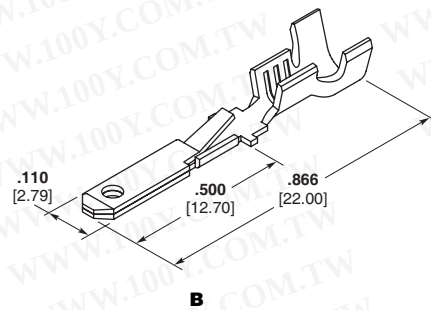
FASTIN-FASTON Product Line (Continued)

**110 Series
Receptacles**



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

**110 Series
Tabs**



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

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**FASTON Terminals
Strip/Loose Piece Cross
Reference**

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

RECEPTACLES 250 Series

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

Receptacles 187 Series

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

Receptacles 110 Series

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

250 Series Tabs

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

110 Series Tabs

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

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