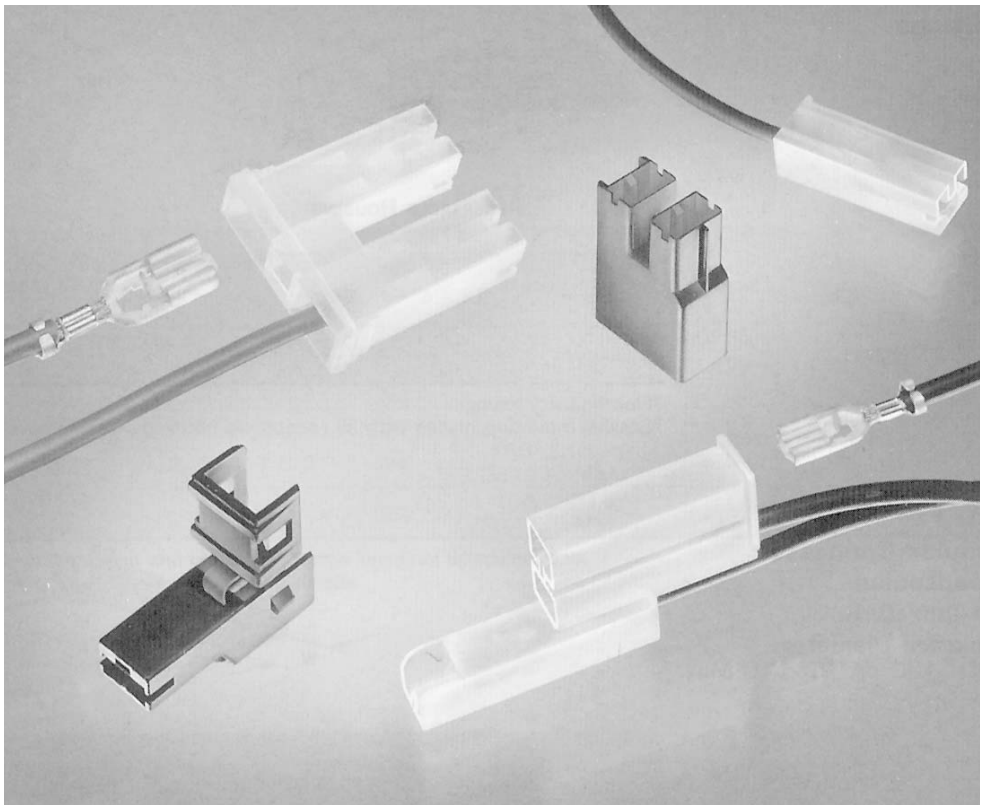
Positive Lock Receptacles

Product Facts

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



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

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

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

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

Positive Lock Receptacles (Continued)

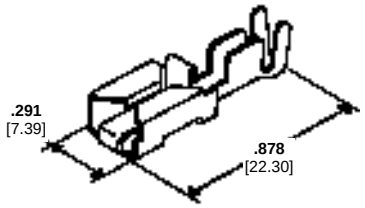
Mark I

250 Series Receptacles

Stock Thickness — .016 [0.41]

Fits Tab — .032 [0.81]

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



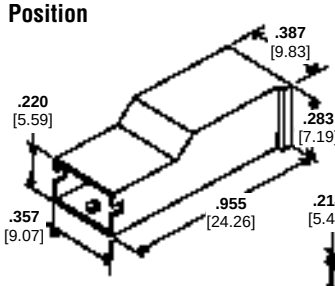
Wire Range AWG	Insulation Diameter	Material and Finish	Part Numbers				
			Receptacle			Quick Change Applicator No.[2]	Hand Tool
20-16	**.090-.130** 2.29-3.30	Brass/Pre-Tin	1-160759-1	X	X	567181-2	654174-1
18-14	**.135-.195** 3.43-4.95	Brass/Tin	63812-1[1]	X	X	680140-2	—
	.095-.155 2.41-3.94	Brass/Tin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

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

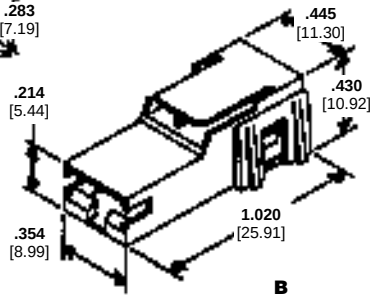
Receptacle Housings

Material — 94 V-2, 6/6 Nylon

1 Position



A

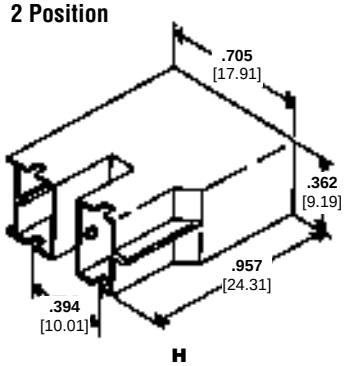


B

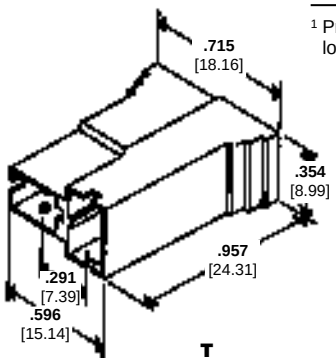
Style	Color	Part No.
A	Black	154719-0
	Natural	154719-1
B	Black	520961-1[1]
H	Black	926521-2
T	Black	926522-1
	Natural	926522-2

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

2 Position



H



T

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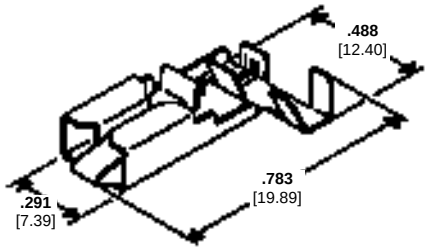
Positive Lock Receptacles (Continued)

Mark I

250 Series Flag Receptacle

Stock Thickness — .016 [0.41]

Fits Tab — .032 [0.81]



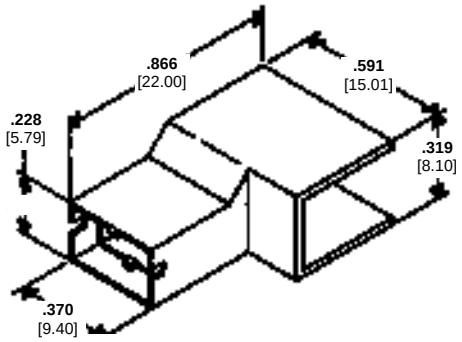
Wire Range AWG	Insulation Diameter	Material and Finish	Part Numbers	
			Receptacle	Quick Change Applicator No. [1]
20-16	.087-.130 2.21-3.30	Brass/Pre-Tin	926820-4	680436-2

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

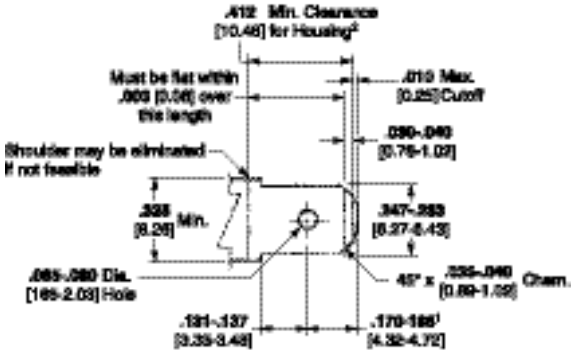
Mark I

250 Series Receptacle Housings

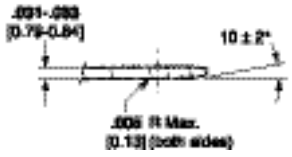
Material — 94 V-2, 6/6 Nylon



Color	Part Number
Black	926291-1



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



Recommended Mating Tab Dimensions

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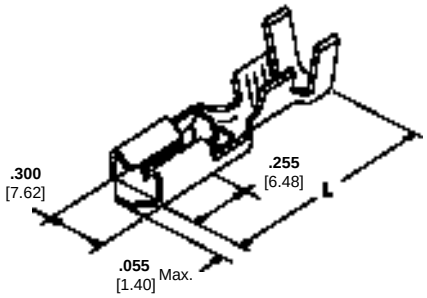
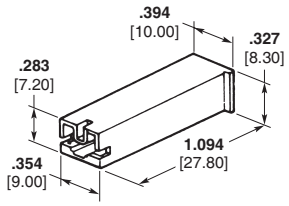
Positive Lock Receptacles (Continued)

Mark II
250 Series
Straight Receptacles

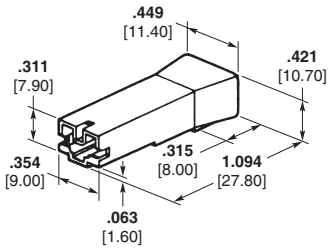


Wire Range AWG	Tab Thickness	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)			Terminal Part No.
22-18	.032 0.81	.060-.100 1.52-2.54	Brass, Tin Plated	.016 0.41	.886 22.50	X	X	63119-1
	.032 0.81	.059-.122 1.50-3.10	Pre-Tin Brass	.016 0.41	.976 24.80	X	X	170327-1
18-14	.032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

Mark II
250 Series
Receptacle Housings
1 Circuit



A



B

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

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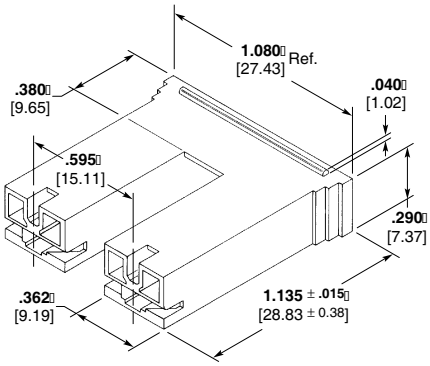
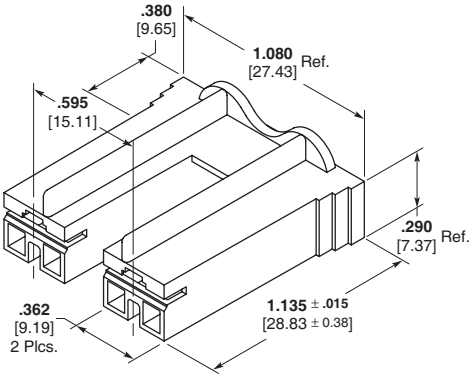
Positive Lock Receptacles (Continued)

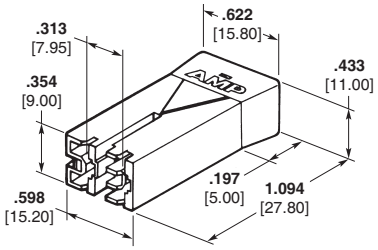
Mark II
250 Series
Receptacle Housings
2 Circuit



A



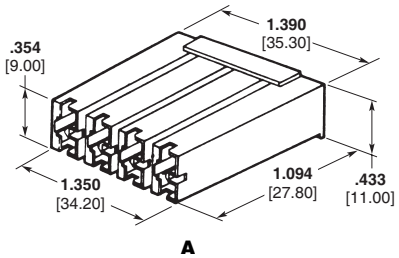
B



C

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

Mark II
250 Series
Receptacle Housings
4 Circuit



A

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

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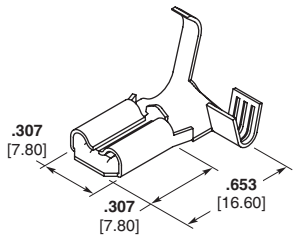
Positive Lock Receptacles (Continued)

Mark II

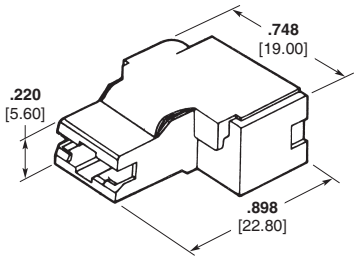
250 Series
Flag Receptacles
Stock Thickness — .016 [0.41]
Fits Tab — .032 [0.81]



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

Mark II

250 Series
Flag Style Receptacle Housing
1 Circuit



A

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

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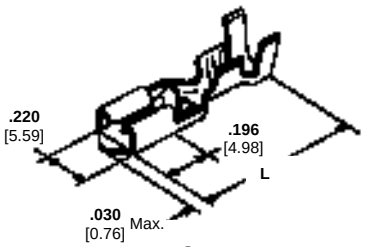
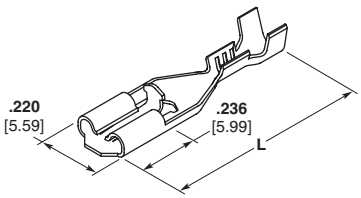
Positive Lock Receptacles (Continued)

Mark II
187 Series
Straight Receptacles



A

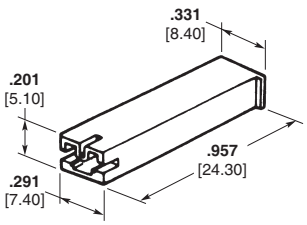


B

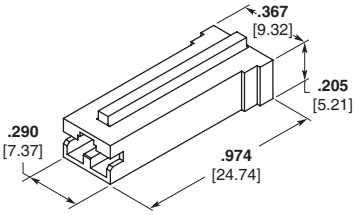
Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	CSA	Terminal Part No.
24-20	A	**.020** 0.51	**.060-.110** 1.52-2.79	Brass, Post Tin Plated	**.012** 0.30	**.755** 19.17	X	X	63196-1
	B	**.020** 0.51	**.060-.105** 1.52-2.67	Pre-Tin Brass	**.012**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

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

Mark II
187 Series
Receptacle Housings
1 Circuit



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



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

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

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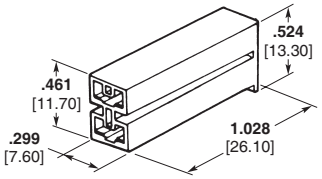
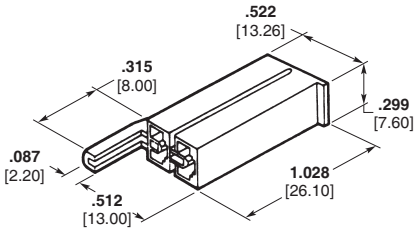
Positive Lock Receptacles (Continued)

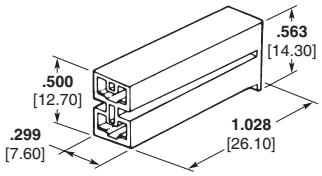
Mark II
187 Series
Receptacle Housings
2 Circuit



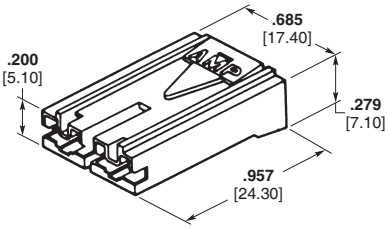
A — 6 mm Pitch



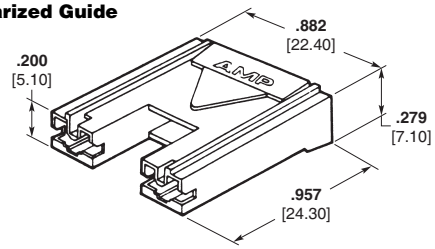
B — 6 mm Pitch, with Polarized Guide



C — 7 mm Pitch



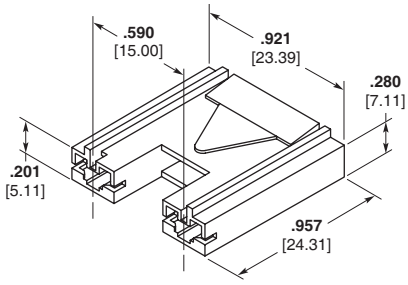
D — 10 mm Pitch



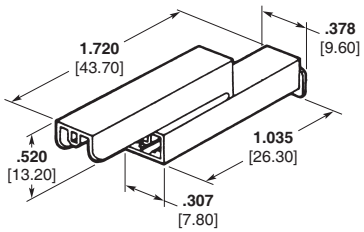
E — 15 mm Pitch, for Electro-

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

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



F — 16 mm Pitch



G — For Microswitch

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

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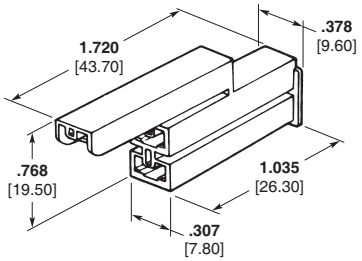
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-208-420-8341

Positive Lock Receptacles (Continued)

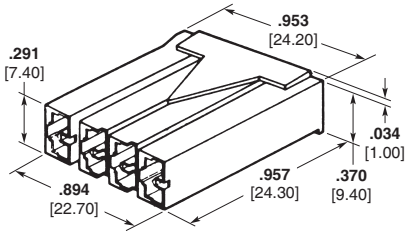
Mark II

187 Series
Receptacle Housings

3 Circuit and
4 Circuit



A — 3 Circuit
For Micro-Switch



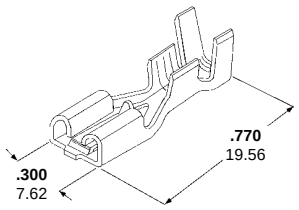
B — 4 Circuit
For Timer

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

Positive Lock Receptacles (Continued)

Mark III
250 Series Receptacles

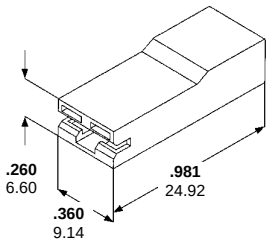
Stock Thickness — .016
Accepts .032 Tab



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

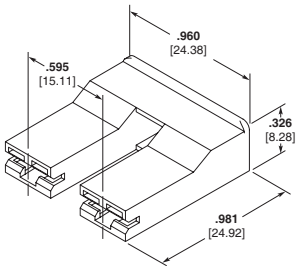
1. Quick-Change applicator Part No. with -1 is for a "T" terminating unit used in automatic machines; -2 is for a "K" AMP-O-LECTRIC bench machine

Mark III
Receptacle Housings



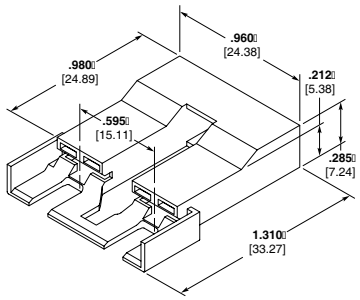
One Circuit Housing

A



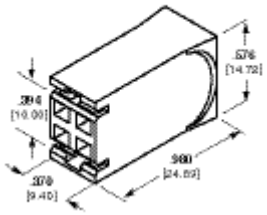
Two Circuit Water Valve

C



Two Circuit Water Valve Housing with Latch

D



Two Circuit Wax Motor

B

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

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

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

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

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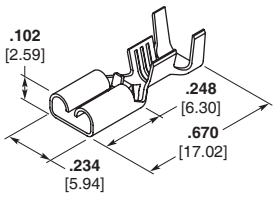
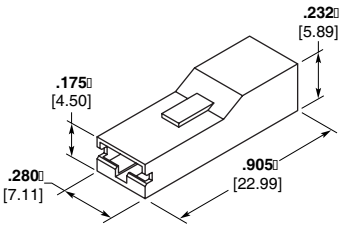
Positive Lock Receptacles (Continued)

Mark III
187 Series Receptacles

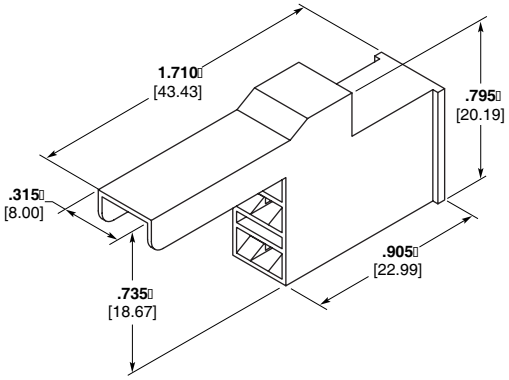


Wire Range AWG	Insulation Dia.	Mating Tab Thickness	Material and Finish	Terminal Part No.	UL	CSA	Applicator
22-18	**.090-.130** 2.29-3.30	**.020** 0.51	Tin-Plated Brass	1217113-2	—	—	680645-2
		.032 0.81	Tin-Plated Brass	1217097-2	—	—	680645-2
18-14	**.150-.200** 3.81-5.08	**.020** 0.51	Brass	1217114-1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

Mark III
187 Series Receptacle Housings



Part Number

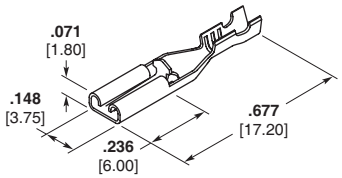


Part Number 521198-1

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

Positive Lock Receptacles (Continued)

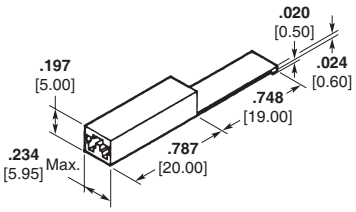
110 Series
Straight Receptacles



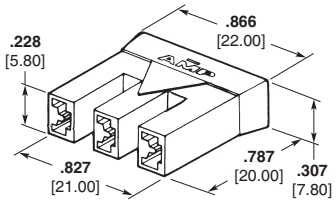
Wire Range AWG	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	UL	CSA	Terminal Part No.
24-20	.020 0.51	.040-.070 1.02-1.78	Pre-Tin Brass	.010 0.25	—	—	175411-1
20-16	.020 0.51	.080-.122 2.03-3.10	Pre-Tin Brass	.010 0.25	—	—	174777-1

Receptacle Housing

Applicable Contact Part Number 175411, 174777



A — For 1 Circuit



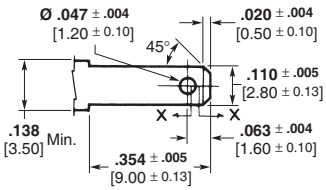
B — For 3 Circuit

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

Tab Dimension For Signal Circuit

For 1 Circuit

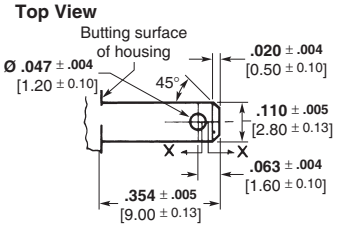
Top View



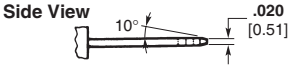
Side View

Type A
(When using tab shoulder for butting)

Top View

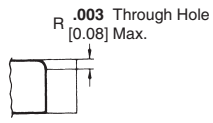


Side View

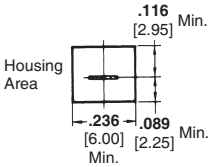


Type B
(When using resin, etc., for butting)

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

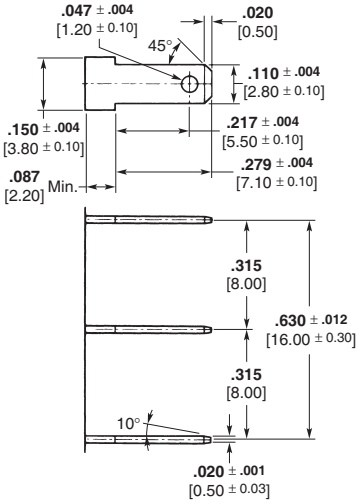


Section X-X



Housing Outline

For 3 Circuit



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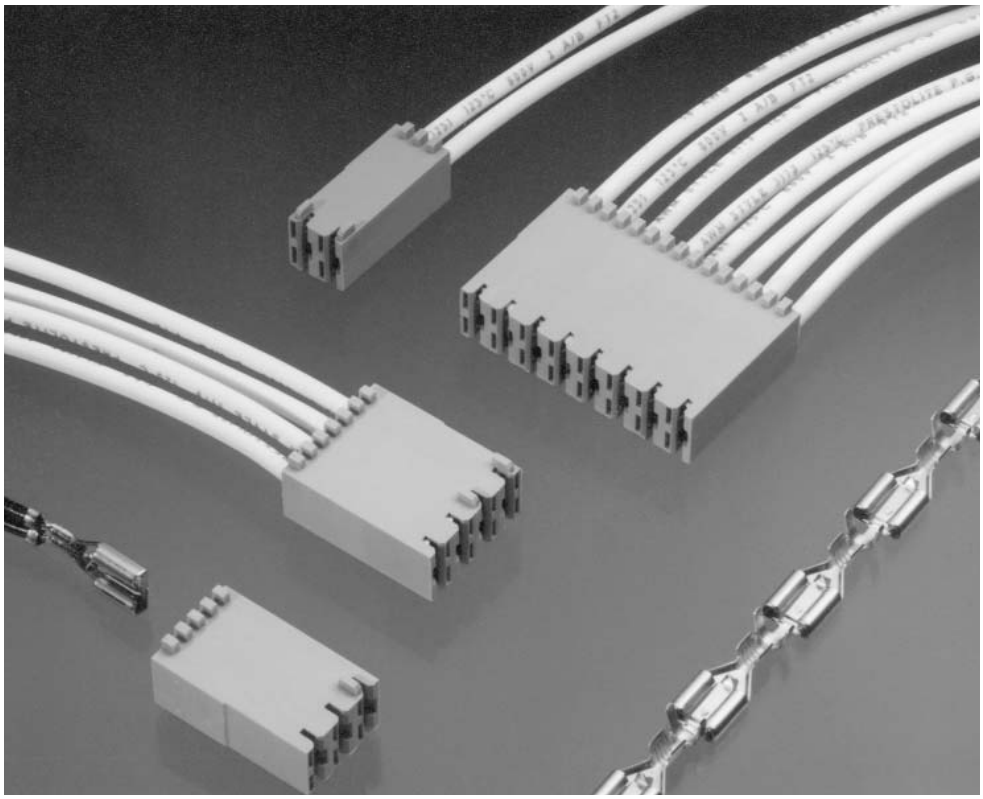
Positive Lock RAST 5 Connector System

Product Facts

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



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

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

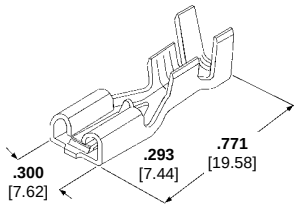
While the origins of this product are in the appliance industry, many other industries are embracing this style of connector. Marine, exercise equipment and hand tool manufacturers are recent examples of customers beginning to use this system. Any application where .250 x .032 [6.35 x 0.81] tabs are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

See Tyco Electronics catalog 296599 for additional RAST products.

Positive Lock RAST 5 Connector System (Continued)

Mark III 250 Series Receptacles

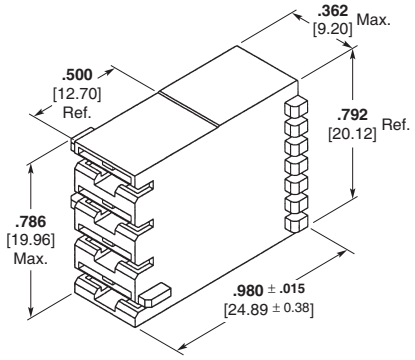
Stock Thickness — .013 [0.33]
Tab size — .032 [0.81]



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

Receptacle Housings

Material — 94 V-0, 6/6 Nylon



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