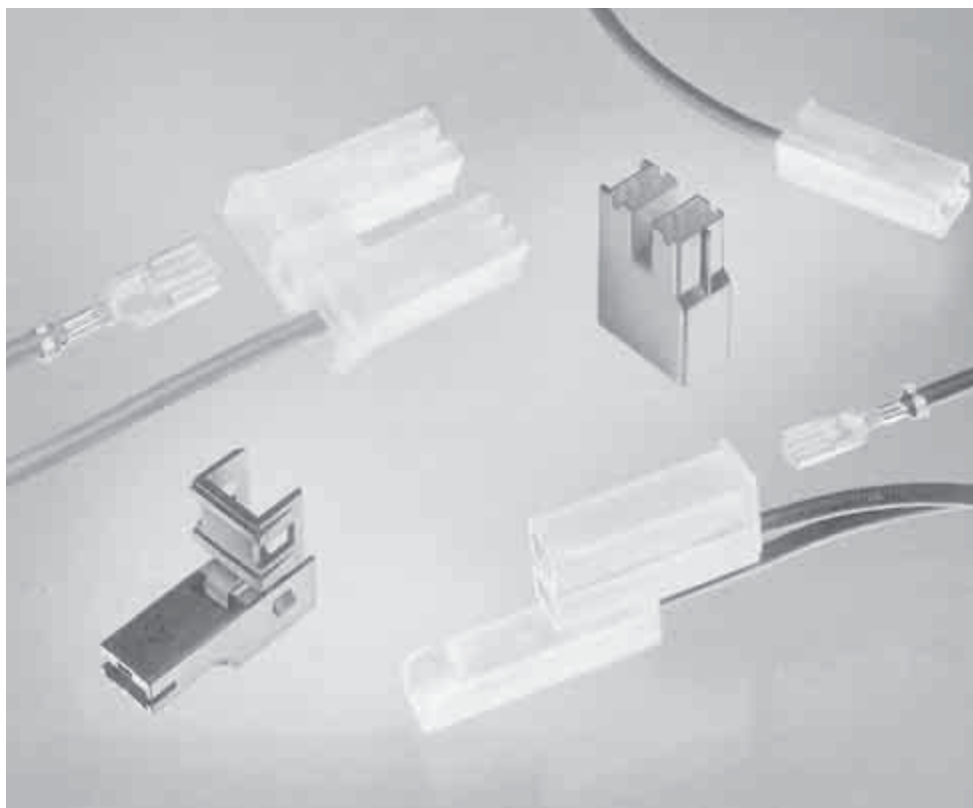


Positive Lock Receptacles

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.

Positive Lock Receptacles (Continued)

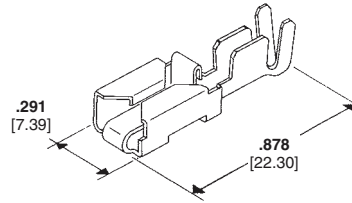
Mark I

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.

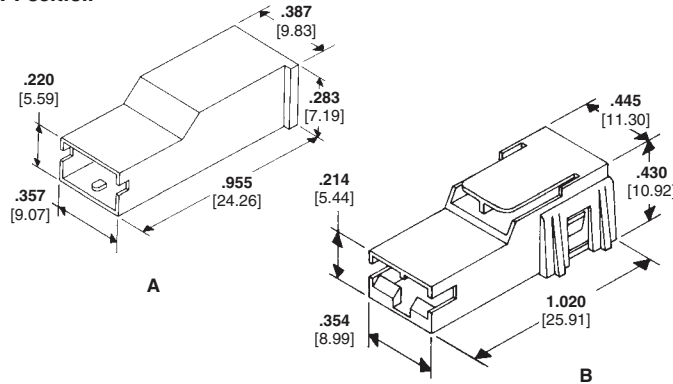
² Quick-Change Applicator for AMP-O-LECTRIC Machine 565435-5.

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

Receptacle Housings

Material — 94 V-2, 6/6 Nylon

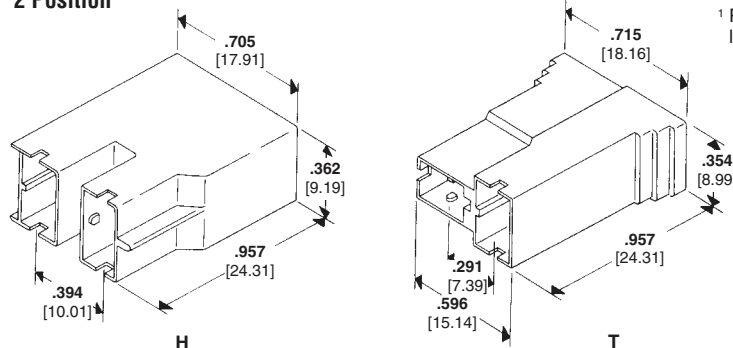
1 Position



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



Note: All part numbers are RoHS compliant.

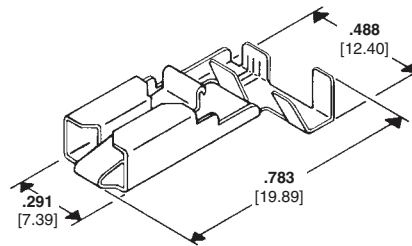
Positive Lock Receptacles (Continued)

Mark I

250 Series Flag Receptacle

Stock Thickness — .016 [0.41]

Fits Tab — .032 [0.81]



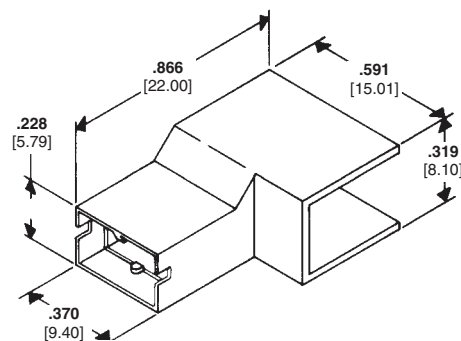
Wire Range AWG	Insulation Diameter	Material and Finish	Part Numbers	
			Receptacle	Quick Change Applicator No. ¹
20-16	.087-.130 2.21-3.30	Brass/Pre-Tin	926820-4	680436-2

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

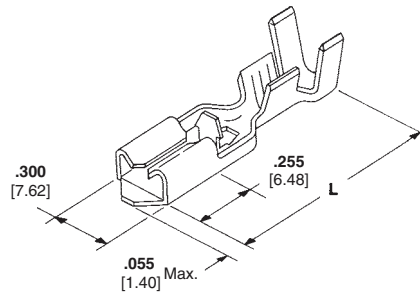


Color	Part Number
Black	926291-1

Note: All part numbers are RoHS compliant.

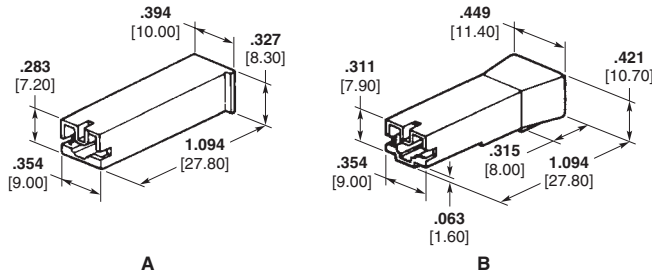
Positive Lock Receptacles (Continued)

Mark II 250 Series Straight Receptacles



Wire Range AWG	Tab Thickness	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)	UL	SP	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
	.032 0.81	.110-.200 2.79-5.08	Pre-Tin Brass	.016 0.41	1.015 25.80	X	X	170329-1
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

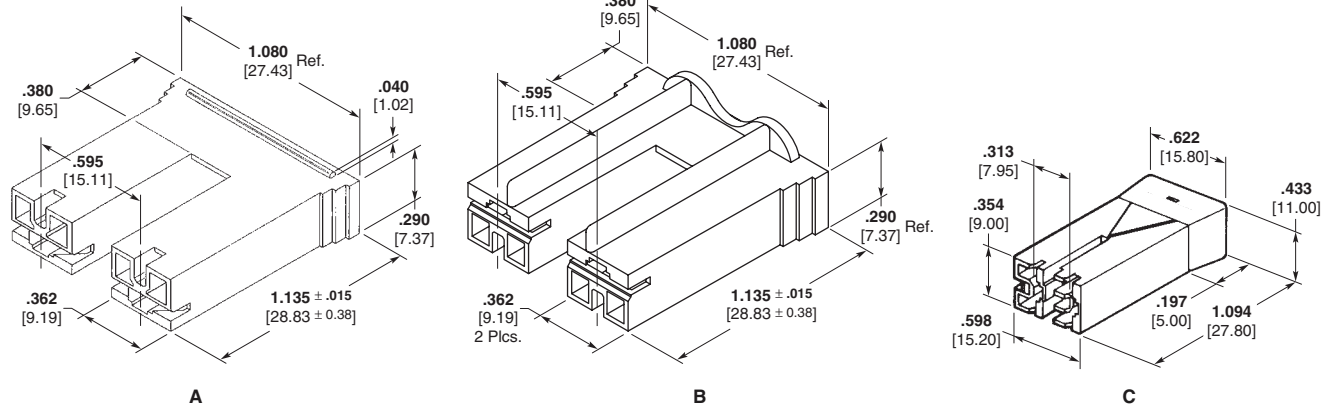


Style	Material	UL 94	Color	UL	SP	Part Number
A	6/6 Nylon	V2	Natural	—	—	172076-1
			Black	—	—	172076-2
			Yellow	—	—	172076-4
			Green	—	—	172076-5
			Blue	—	—	172076-6
			Red	—	—	172076-7
		V0	Natural	—	—	2-172076-1
			Black	—	—	2-172076-2
			Yellow	—	—	2-172076-4
			Green	—	—	2-172076-5
			Blue	—	—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

Note: All part numbers are RoHS compliant.

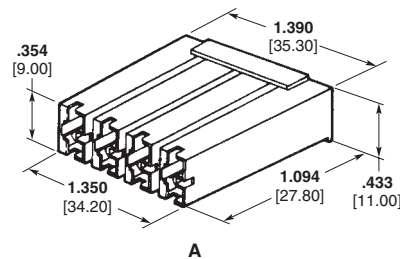
Positive Lock Receptacles (Continued)

Mark II 250 Series Receptacle Housings 2 Circuit



Style	Material	UL 94	Color	UL	CS	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



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

Note: All part numbers are RoHS compliant.

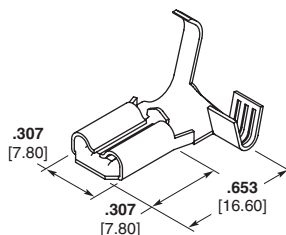
Positive Lock Receptacles (Continued)

Mark II

250 Series Flag Receptacles

Stock Thickness — .016 [0.41]

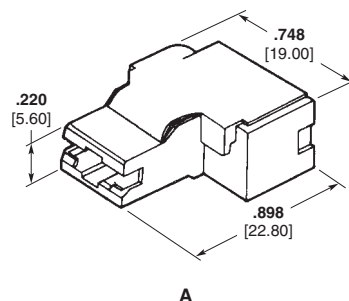
Fits Tab — .032 [0.81]



Wire Range AWG	Insulation Diameter	Material and Finish	UL	RA	SP	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
12-10	.110-.205 2.80-5.20	Pre-Tin Brass	X	—	X	172765-1

Mark II

250 Series Flag Style Receptacle Housing 1 Circuit

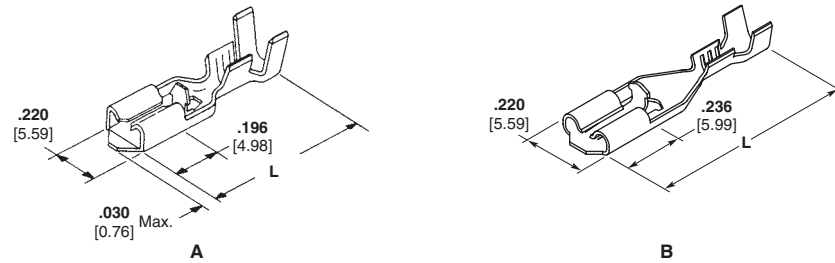


Style	Material	UL 94	Color	RA	SP	Part Number
A	6/6 Nylon	V2	Natural	X	X	172469-1
			Blue	X	X	172469-2
			Green	—	—	172469-4
			Red	—	—	172469-7
		V0	Natural	—	—	1-172469-1
			Blue	—	—	1-172469-2
			Yellow	—	—	1-172469-3

Note: All part numbers are RoHS compliant.

Positive Lock Receptacles (Continued)

Mark II 187 Series Straight Receptacles

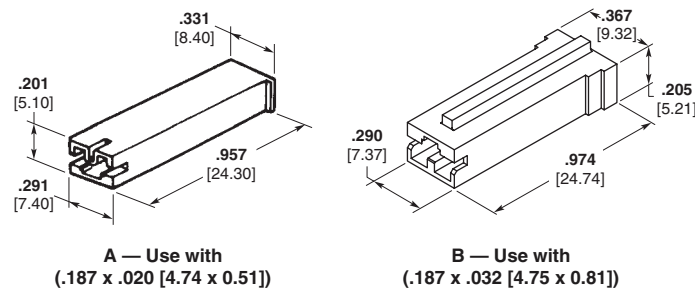


Wire Range AWG	Style	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	L (Overall Length)			Terminal Part No.			
24-20	A	.020	.060-.110	Brass,	.012	.755	X	X	63196-1			
		0.51	1.52-2.79	Post Tin Plated	0.30	19.17						
	B	.020	.060-.105	Pre-Tin Brass	.012	.850	X	X	170324-1			
		0.51	1.52-2.67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

¹ Low profile — not for use in housing.

² For use with housing 521125.

Mark II 187 Series Receptacle Housings 1 Circuit

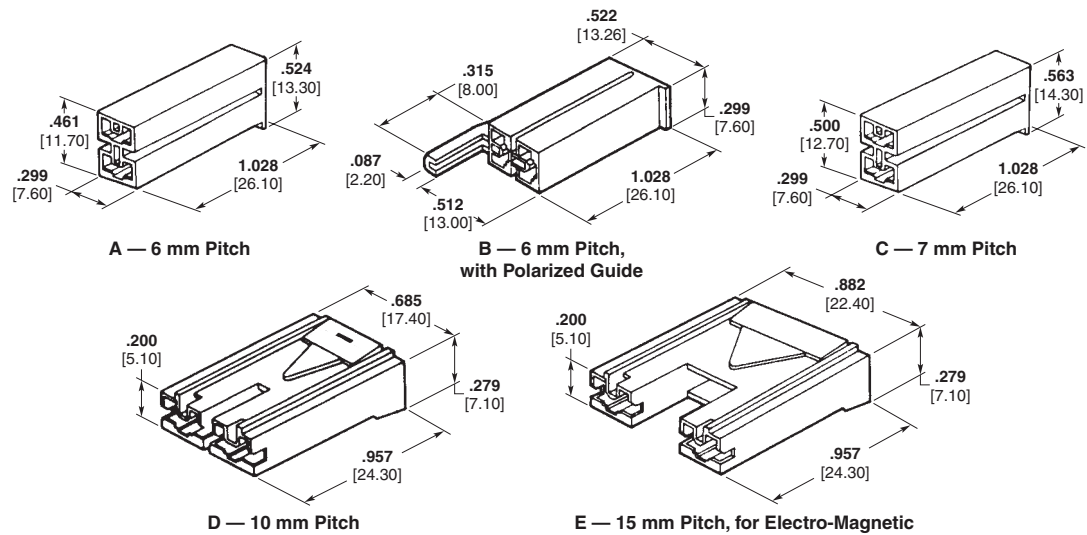


Style	Material	UL 94	Color	UL	SP	Part Number
A	6/6 Nylon	V2	Natural	X	X	172074-1
			Black	—	—	172074-2
			Yellow	—	—	172074-4
			Green	—	—	172074-5
			Blue	—	—	172074-6
			Red	—	—	172074-7
		V0	Natural	X	X	173974-1
			Black	—	—	173974-2
			Yellow	—	—	173974-4
			Green	—	—	173974-5
			Blue	—	—	173974-6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

Note: All part numbers are RoHS compliant.

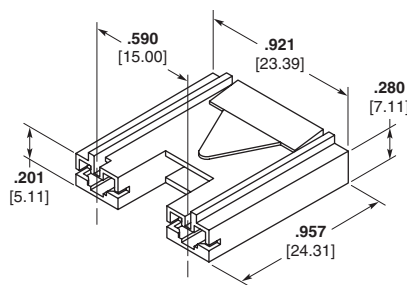
Positive Lock Receptacles (Continued)

Mark II 187 Series Receptacle Housings 2 Circuit

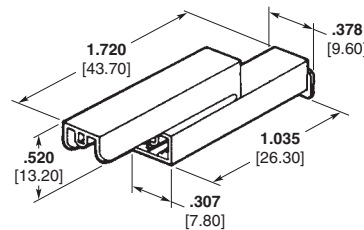


Style	Material	UL 94	Color	UL	CS	Part Number
A	6/6 Nylon	V2	Natural	—	—	172210-1
			Black	—	—	172210-2
			Yellow	—	—	172210-4
			Blue	—	—	172210-6
		V0	Natural	X	X	1-172210-1
			Black	X	X	1-172210-2
			Yellow	—	—	1-172210-4
			Green	—	—	1-172210-5
			Blue	—	—	1-172210-6
			Red	—	—	1-172210-7
		V2	Natural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

Style	Material	UL 94	Color	UL	CS	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
		V0	Natural	—	—	179720-1
			Black	—	—	179720-2
D	6/6 Nylon	V0	Yellow	—	—	179720-4
			Blue	—	—	179720-6
			Red	—	—	179720-7
			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



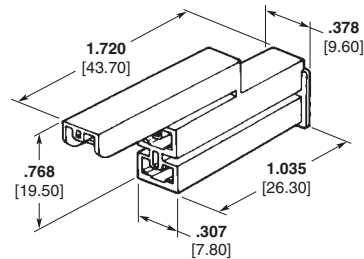
G — For Microswitch

Style	Material	UL 94	Color	UL	CS	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
			Natural	—	—	1-174712-1
		V0	Yellow	—	—	1-174712-4
			Blue	—	—	1-174712-6
			Red	—	—	1-174712-7
			Red	—	—	1-174712-7

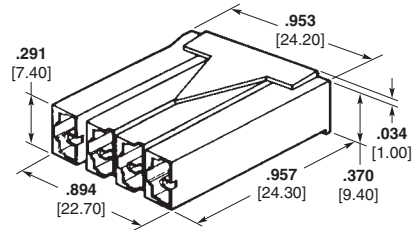
Note: All part numbers are RoHS compliant.

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	UL	CS	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

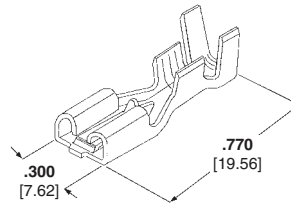
Note: All part numbers are RoHS compliant.

Positive Lock Receptacles (Continued)

Mark III 250 Series Receptacles

Stock Thickness — .016

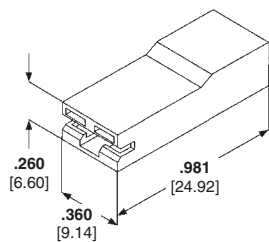
Accepts .032 Tab



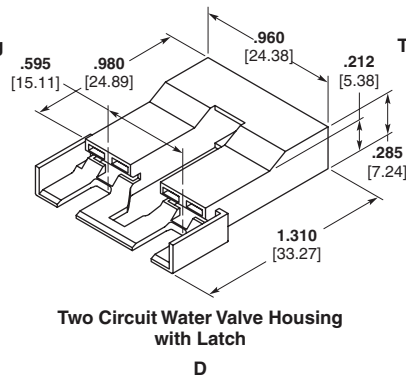
Wire Range AWG	Insulation Diameter	Material and Finish	UL	CSA	Part Number	
					Receptacles	Quick Change Applicator No. ¹
22-18	.060-.110 1.52-2.79	Brass	X	X	63933-1	680161-2
		Brass/Tin	X	X	63933-2	680161-2
18-14	.090-.155 2.28-3.93	Brass	X	X	63854-1	680411-2
		Brass/Tin	X	X	63854-2	680411-2
16-12 or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

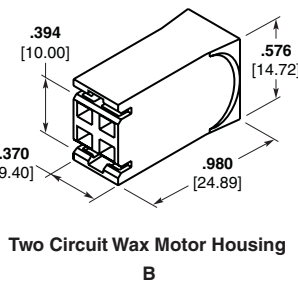
Mark III Receptacle Housings



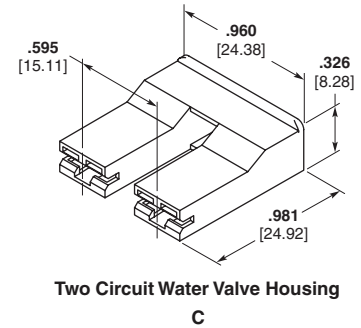
One Circuit Housing
A



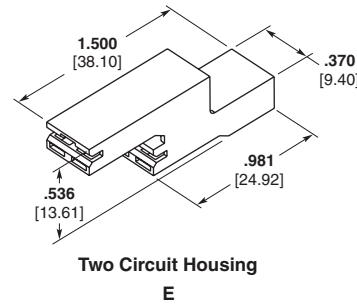
**Two Circuit Water Valve Housing
with Latch**
D



Two Circuit Wax Motor Housing
B



Two Circuit Water Valve Housing
C



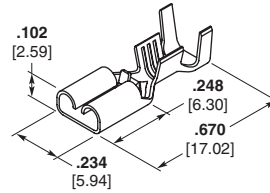
Two Circuit Housing
E

Style	Material	UL 94 ¹	Color ²	Part Number	Accepts	UL	CSA
A	Nylon	V2	Natural	521120-1	250 Series Positive Lock Mark III Terminals.	X	X
B	Nylon	V0	Natural	521766-1	250 Series FASTON and Positive Lock Mark III Terminals. Examples include 63306 and 63854.	X	X
			Natural	521253-1		X	X
			Red	521253-2		X	X
			Red	1-521253-2		X	X
			Green	1-521253-3		X	X
D	Nylon	V0	Blue	1-521253-7	250 Series FASTON and Positive Lock Mark III Terminals. Examples Include 63306 and 63854	X	X
			Natural	521119-1		X	X
			Putty	521119-2		X	X
			Blue	521119-4		X	X
C	Nylon	V2					
E	Nylon	V0	Natural	521955-1	250 Series MK III Positive Lock Receptacles 63993, 63854, 1217092	X	X

Note: All part numbers are RoHS compliant.

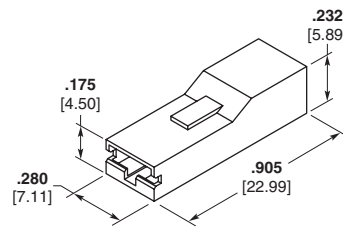
Positive Lock Receptacles (Continued)

Mark III 187 Series Receptacles

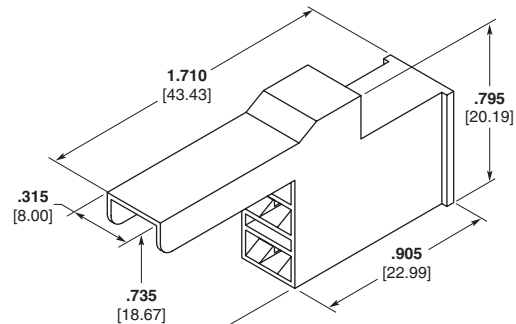


Wire Range AWG	Insulation Dia.	Mating Tab Thickness	Material and Finish	Terminal Part No.	UL	CS	Applicator
22-18	.090-.130 2.29-3.30	.020 0.51	Tin Plated Brass	1217113-2	—	—	680645-2
		.032 0.81	Tin Plated Brass	1217097-2	—	—	680645-2
18-14	.150-.200 3.81-5.08	.020 0.51	Brass	1217114-1	—	—	680652-2
		.020 0.51	Tin Plated Brass	1217114-2	—	—	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 521187-1

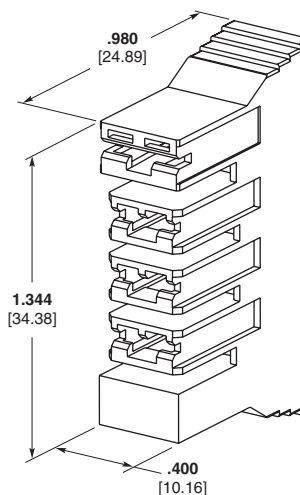


Part Number 521198-1

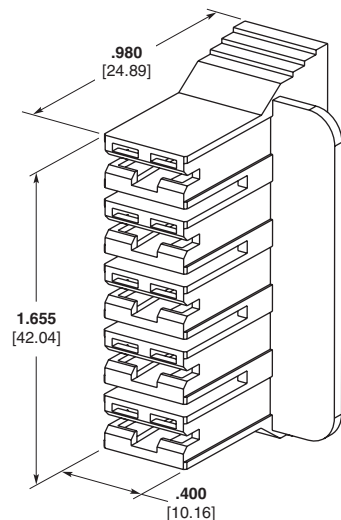
Material	UL 94	Color	UL	CS	Part Number
Nylon	V2	Natural	X	X	521187-1
Nylon	V2	Natural	X	—	521198-1

Mark III HVAC Motor Receptacle Housings

Material	Color	UL	CS	Part Number
Nylon	Natural	X	X	521780-1
Nylon	Natural	X	X	521781-1



Part Number 521781-1
4-Position

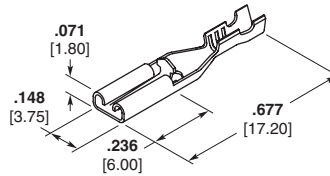


Part Number 521780-1
5-Position

Note: All part numbers are RoHS compliant.

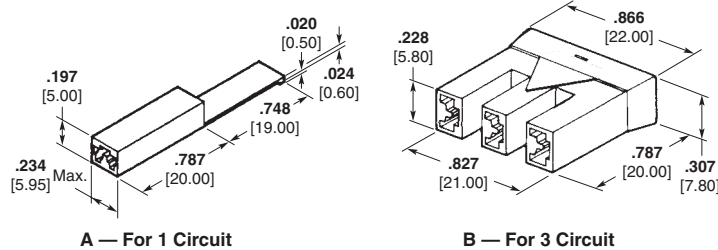
Positive Lock Receptacles (Continued)

110 Series Straight Receptacles



Wire Range AWG	Tab Fit	Insulation Diameter	Material and Finish	Stock Thickness	UL	CS	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

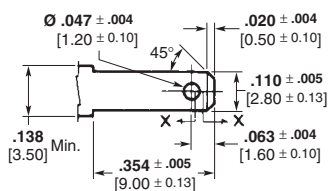


Style	Material	UL 94	Color	UL	CS	Part Number
A	6/6 Nylon	V2	Natural	X	X	174779-1
			Natural	—	—	178832-1
B	6/6 Nylon	V0	Yellow	—	—	178832-4
			Blue	—	—	178832-6
			Red	—	—	178832-7

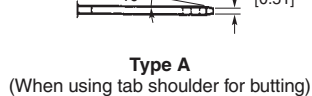
Tab Dimension For Signal Circuit

For 1 Circuit

Top View



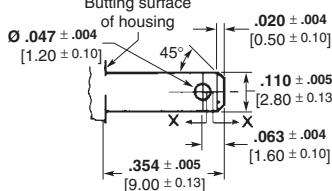
Side View



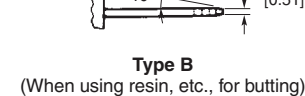
Type A

(When using tab shoulder for butting)

Top View



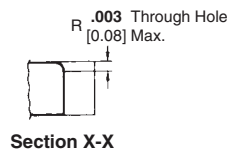
Side View



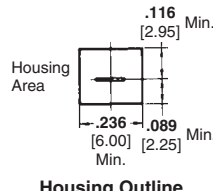
Type B

(When using resin, etc., for butting)

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

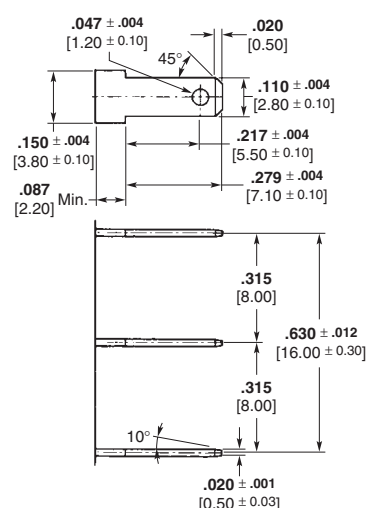


Section X-X



Housing Outline

For 3 Circuit



Note: All part numbers are RoHS compliant.



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