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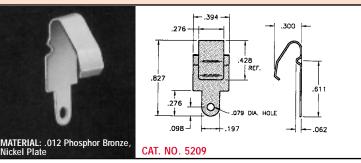


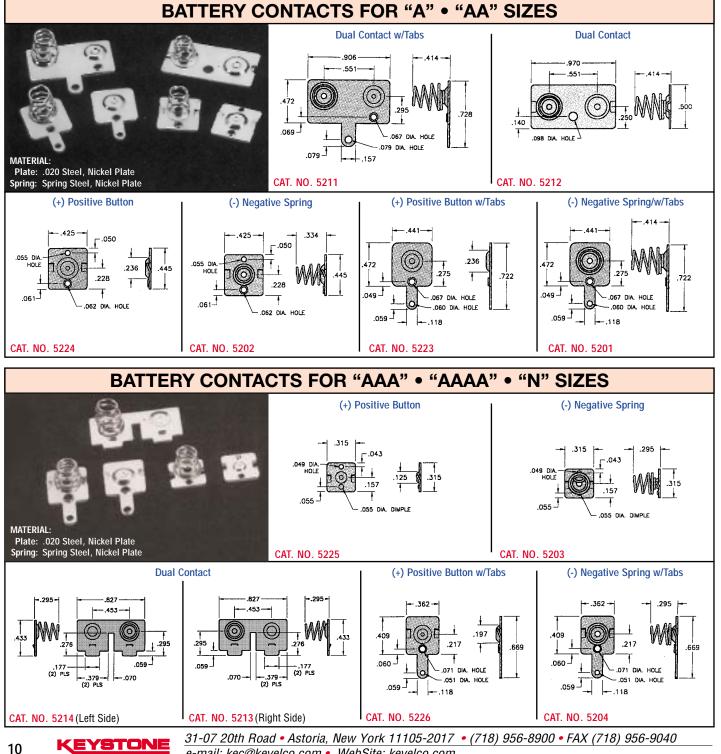


BATTERY SPRING & BUTTON CONTACTS

- Economical and reliable contacts are ideal for molded cases with self contained battery compartments
- Single and dual contact designs available for "A", "AA", "AAA", "AAAA" & "N" size batteries
- "Solder tab" design for either wire lead or PC mounting
- Unique spring contacts adjust to variations in battery lengths
- Reliable spring contacts assure low contact resistance and a dependable connection
- Space saving, economical, excellent mechanical construction

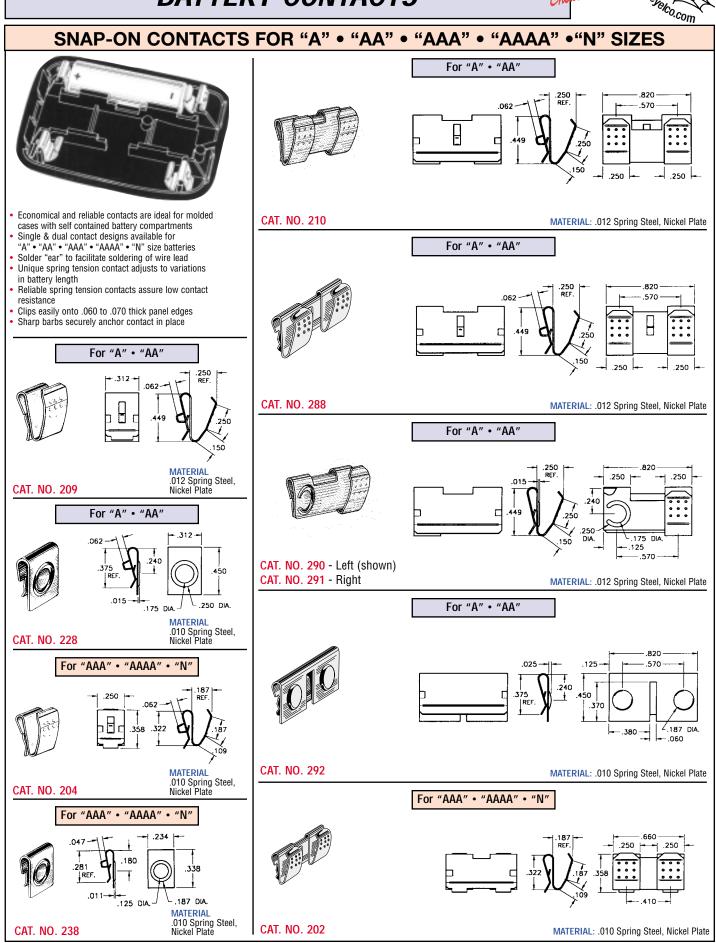
SPRING CONTACT FOR "A"•"AA"•"9V" SIZES





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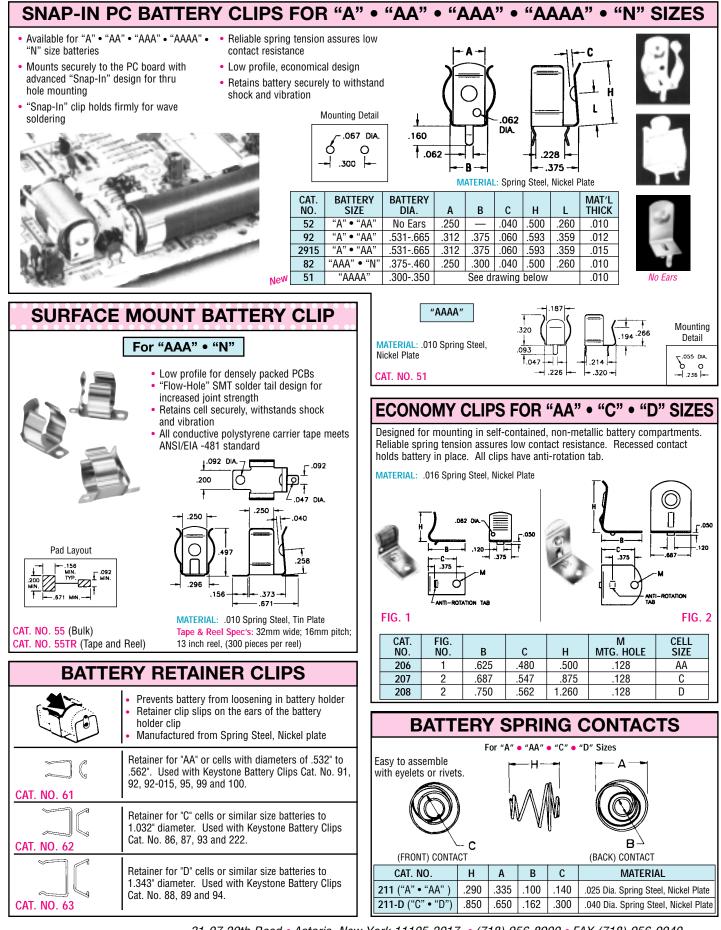
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EYSTONE





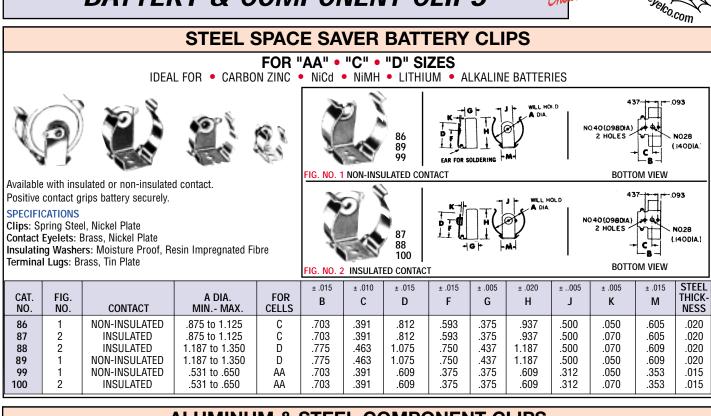
BATTERY CLIPS & CONTACTS

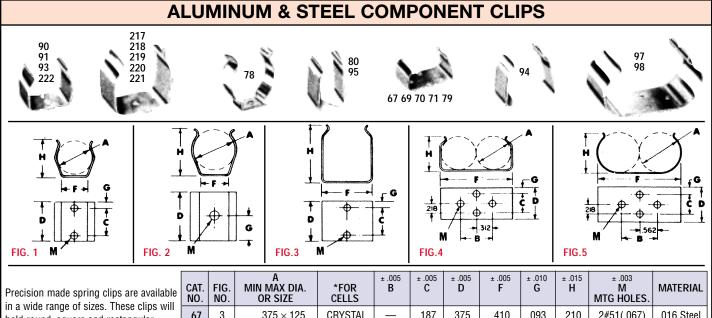


12 KEYSTONE

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BATTERY & COMPONENT CLIPS





in a wide range of sizes. These clips will	NO.	NO.	OR SIZE	CELLS							MTG HOLES.	
hold round, square and rectangular	67	3	.375 ×.125	CRYSTAL	_	.187	.375	.410	.093	.210	2#51(.067)	.016 Steel
, ,	69	4	.562 (2)	(2) AA	.625	.437	.625	1.125	.093	.562	4#40(.098)	.015 Steel
batteries or components with similar	70	4	.656 (2)	(2) RM12	.625	.437	.625	1.343	.093	.740	4#40(.098)	.025 Alum.
dimensions. Clips are manufactured	71	3	.593 × 1.031	"9" Volt	_	.437	.625	1.031	.093	.687	2#40(.098)	.015 Steel
from Aluminum or Spring Steel.	78	2	1.187 to 1.350	D	—	—	.500	.562	.250	1.218	1#29(.136)	.020 Steel
	79	4	$.650 \times 1.280$	TR146X	.625	.437	.625	1.050	.093	.765	4#40(.098)	.015 Steel
MATERIAL	80	3	$.650 \times 1.280$	"9" VOLT	—	.437	.625	.675	.093	1.187	2#40(.098)	.015 Steel
	90	1	.375 to .468	AAA	_	.437	.625	.312	.093	.453	2#40(.098)	.020 Alum.
Steel Clips: Spring Steel, Nickel Plate	91	1	.531 to .656	AA	_	.437	.625	.406	.093	.562	2#40(.098)	.020 Alum.
Aluminum Clips: 2024-T3	93	1	.875 to 1.125	С	_	.437	.625	.937	.093	.921	2#40(.098)	.020 Alum.
	94	3	1.187 to 1.375	D	—	.437	.625	1.250	.093	1.218	2#40(.098)	.032 Alum.
	95	3	$.625 \times 1.000$	"9" VOLT	—	.437	.625	.656	.093	1.125	2#40(.098)	.020 Alum.
*These clips will hold batteries or	97	5	1.031 (2)	(2) C	—	.437	.625	2.062	.093	1.125	2#40(.098)	.020 Alum.
components of similar dimensions.	98	5	1.312 (2)	(2) D	1.125	.437	1.000	2.656	.281	1.437	4#40(.098)	.032 Alum.
	217	2	1.375 to 1.500	NiCd	—	—	.812	1.218	.406	1.430	1#22(.157)	.025 Steel
	218	2	1.437 to 1.687	NiCd	—	—	.812	1.375	.406	1.531	1#22(.157)	.025 Steel
	219	2	2.000 to 2.500	NiCd	—	—	.812	1.687	.406	2.156	1#22(.157)	.025 Steel
	220	2	.187 to .203	5mm	—	—	.315	.158	.157	.280	1#42(.093)	.010 Steel
	221	2	.859 to .890	.875	—	—	.468	.828	.234	.906	1#22(.157)	.020 Steel
	222	1	.875 to 1.125	С	—	.437	.625	.937	.093	.921	2#40(.098)	.020 Steel
21 07 20th Dood Actoria	Nou	v Var	L 1110E 0017	(710) 05	<u>c 0000</u>	- FAV	(710)	056 00	10			

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STEEL BATTERY HOLDERS

FIG. 19

FIG

RUGGED STEEL BATTERY HOLDERS

An established design that has gained wide acceptance for commercial and military applications. Batteries are held under constant spring tension assuring low contact resistance. Retainer clips are available to lock batteries in place and prevent shifting or loosening of the batteries. Recommended for use where shock or severe vibration is encountered. Special fabrication for more than four batteries or variations from standard stock parts can be assembled to meet your requirements.



- Ideal for NiCd, Alkaline, NiMH, Carbon, Zinc and Lithium Cells
- Corrosion Resistant, Nickel Plate
- Brass Contacts, Nickel Plate
- Moisture Proof Resin Impregnated, Fibre Insultating Washers

2100 SERIES

(FULLY INSULATED)

1100 SERIES (GROUNDED ONE SIDE)



INSULATED

CONTACT

DIMPLE

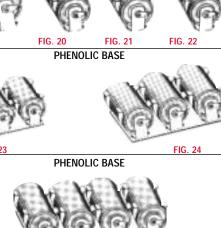
CONTACT

INSULATED CONTACTS

1100 SERIES	2100 SERIES			_	BATTERY CROSS REFERENCE All Batteries listed within boxes are in the same size group					
ONE CONTACT INSULATED CAT. NO.	ALL CONTACTS INSULATED CAT. NO.	FIG. NO.	HOLDS NO.OF CELLS	EVEREADY	DURACELL	RAY-O-VAC	NEDA			
"AA" CELL HOLDERS (BATTERY .531 SIZE .565 0.D.× 1.996 H)										
1139	2139	19	1		7140 014100		15,15A,15C,			
_	2140*	23	2	E9, EV15, EN91.	ZM9, RM12R, NC15AA,		15D,15F,			
_	2171*	24	3	CH15, E133,	M15F, M15AA,	5AA,	15M,15NC,			
	2182*	25	4	E133N, E177,	TR133R,	615,	221,1101M, 1113M.			
1189	2189	20	2	505, 523,	TR177, M505, MN1500, PC1500	815, 7AA	1306AP,			
1191	2191	21	3	1015,1215			1306M,			
1194	2194	22	4				1314M,1606M			
"C	" CELL HOLDE	RS		(BATTERY	.D. × ^{1.875} / _{1.969} H)				
1173	2173	19	1		M14F, M14HD, NC14C, TD00C	1C, 614, 814				
_	2174*	23	2]						
_	2187*	24	3	CH35,			14A, 14C,			
_	2188*	25	4	E93, 935, 1235, EV35,			14D,14F, 14NC,			
1185	2185	20	2	EN93	TR286, MN1400,		1600M			
1195	2195	21	3		PC1400		10001			
1198	2198	22	4							
"D'	CELL HOLDE	RS		(BATTERY 1.187 SIZE 1.375	$D. \times \frac{2.312}{2.412} H$)			
1175	2175	19	1							
_	2176*	23	2		M13F,		13A, 13C,			
	2190*	24	3	CH50,	NC13D, S42,	2D, 6D, 613,	13D, 13F, 13NC.			
_	2192*	25	4	E95, 950, 1250, EV50,	M13HD, TR289.	813	1115M,			
1186	2186	20	2	EN95	MN1300,		1810M			
1199	2199	21	3		PC1300					
1162	2162	22	4							
*Clips mounted	on Phenolic 1/16"	thick								



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INSULATOR TUBES SUPPLIED FOR 2-3-4 CELLS END TO END

FIG. 25

MODIFICATIONS AVAILABLE Use our engineering services for your custom battery holders or modifications to our standard products.

JUMPERS Jumpers permit cost saving and eliminates wiring.

SPECIAL LUGS Printed Circuit, Solderless or Quick-Fit Lugs available for your special connection requirements.

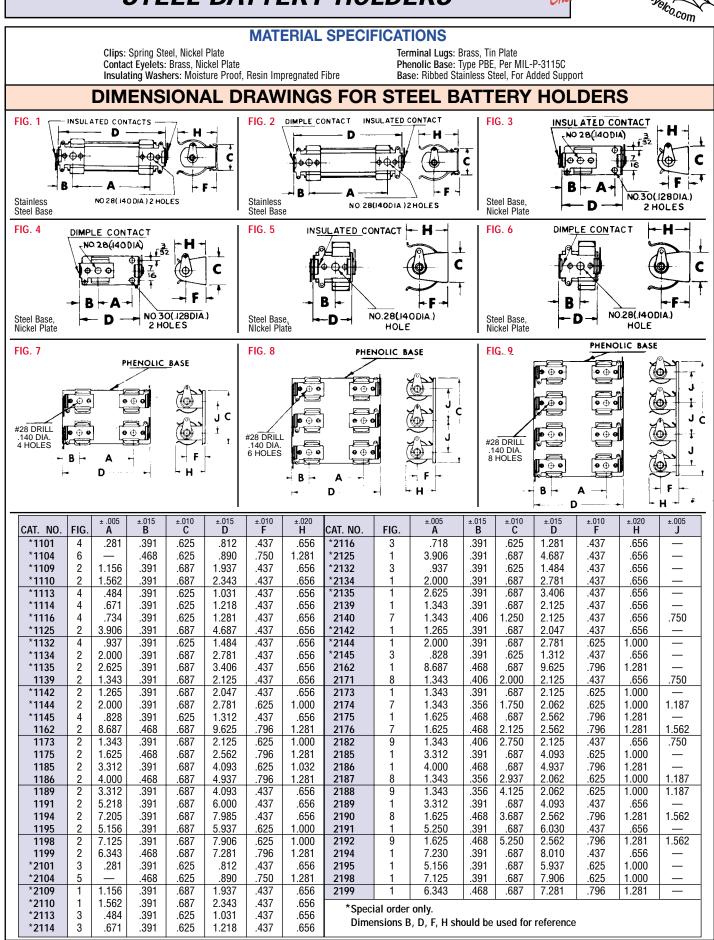
MULTIPLE UNITS Jumpers, special lugs and polarized contacts available for custom applications.

POLARIZED CONTACTS Assure proper battery insertion and correct polarity.



MATERIAL: Molded Polyethylene CAT. NO. 59 (RED) CAT. NO. 60 (BLACK)

STEEL BATTERY HOLDERS



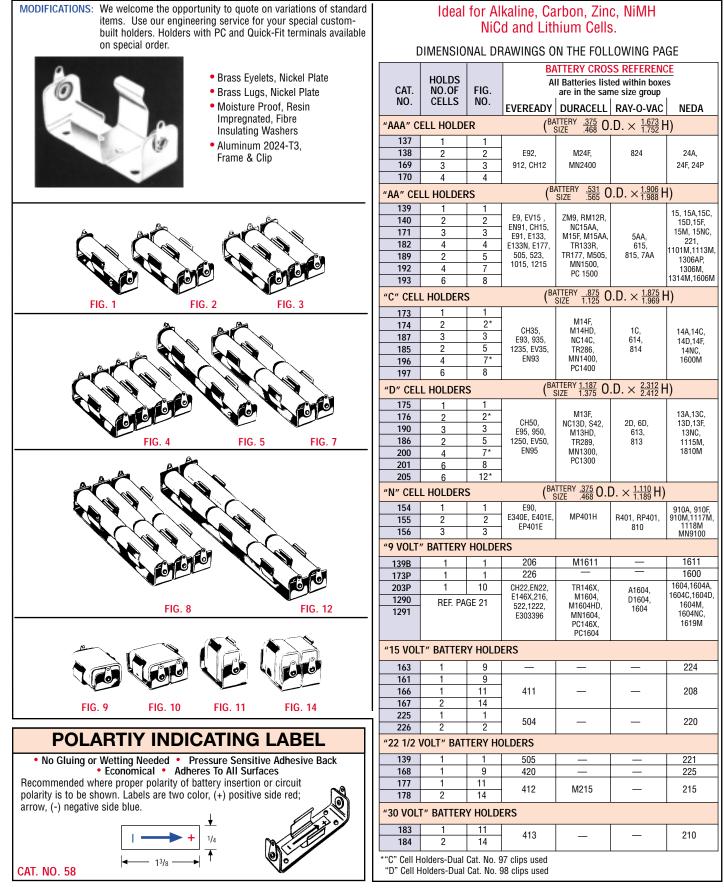
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ALUMINUM BATTERY HOLDERS

A standard line of battery holders available for immediate shipment from stock. Low cost, lightweight and sturdily constructed of quality materials. Good electrical contact, low leakage current and snap-fit clips are the outstanding features.



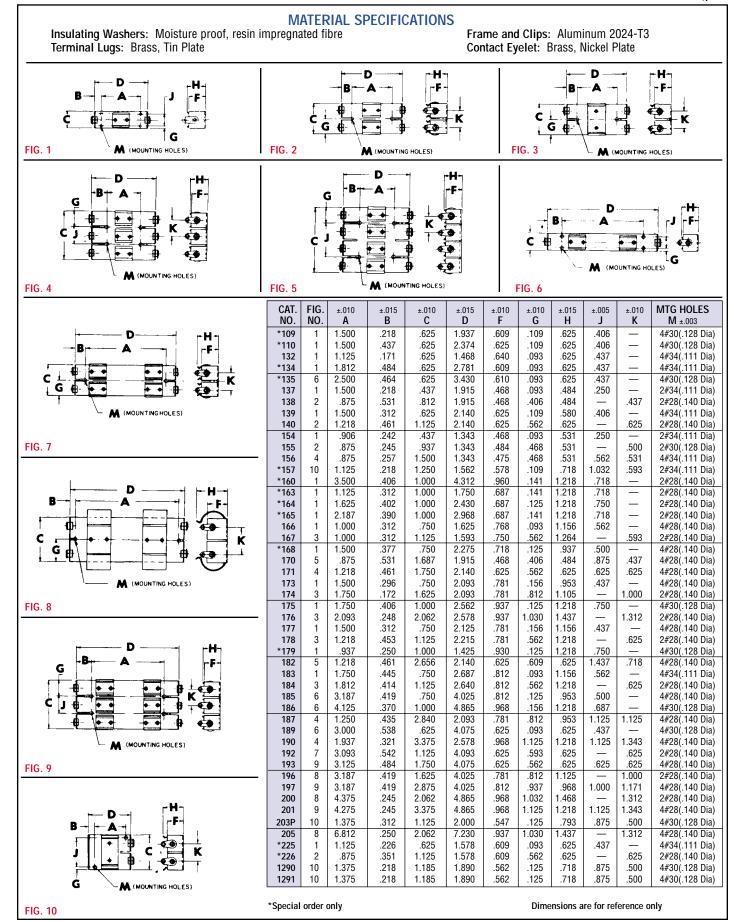
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ALUMINUM BATTERY HOLDERS





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INTERCONNECT BATTERY HOLDERS

ALUMINUM HOLDERS CONNECTED IN SERIES

ELIMINATES WIRING • LABOR SAVING

Features pre-connected jumper strap insulated from the Aluminum base. Batteries held in series circuit without need of additional wiring.

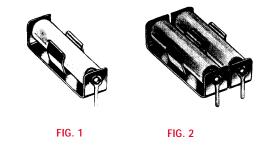
FIG. 2 FIG. 2 FIG. 4

				BATTERY CROSS	REFERENCE]					
CAT.	HOLDS NO.OF	FIG.		All Batteries listed within boxes are in the same size group							
NO.	CELLS	ELLS NO.	EVEREADY	DURACELL	RAY-O-VAC	NEDA					
"AA" CELL HOLDERS (BATTERY 531 SIZE 565 0.D.× 1.988 H)											
146 147 148	2 3 4	2 3 4	E9, EV15, EN91, CH15, E133, E133N, E177, 505, 523, 1015, 1215	ZM9, RM12R, NC15AA, M15F, M15AA, TR133R, TR177, M505, MN1500, PC1500	5AA, 615, 815, 7AA	15, 15A, 15C, 15D, 15F, 15M, 15NC, 221, 1101M, 1113M, 1306AP, 1306M, 1314M, 1606M					
"(" CELL H	OLDE	RS	(BATTERY SIZE	<u></u>	1.875 1.969 H)					
149 150 151	2 3 4	2 3 4	CH35, E93, 935, 1235, EV35, EN93	M14F, M14HD, NC14C, TR286, MN1400, PC1400	1C, 614, 814	14A, 14C, 14D, 14F, 14NC, 1600M					
"D	" CELL H	OLDE	RS	(BATTERY SIZE	$\frac{1.187}{1.375}$ 0.D. ×	: <u>2.312</u> H)					
152 153 158	2 3 4	2 3 4	CH50, E95,950, 1250, EV50, EN95	M13F, NC13D, S42, M13HD, TR289, MN1300, PC1300	2D, 6D, 613, 813	13A, 13C, 13D, 13F, 13NC, 1115M, 1810M					

ALUMINUM HOLDERS WITH PC LUGS

ELIMINATES WIRING • LABOR SAVING

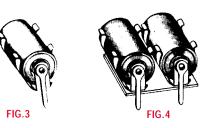
For printed circuitry we have standardized our most popular holders with PC Lugs. Choice of single or multiple holders "AA" and "C" assembled with Cat. No. 4002 lug. "D" assembled with Cat. No. 4003 lug.



				BATTERY CROSS REFERENCE						
CAT. NO.	HOLDS NO. OF CELLS	FIG. NO.	All Batteries listed within boxes are in the same size group							
NO.	LELLS	10.	EVEREADY	DURACELL	RAY-O-VAC	NEDA				
"]	AA" CELL	HOLD	ERS	(BATTER SIZE	$\frac{9.531}{.565}$ 0.D.×	<u>1.906</u> H)				
2222	1	1	E9, EV15,	ZM9, RM12R, NC15AA,	5AA,	15, 15A, 15C, 15D, 15F,				
2223	2	2	EN91, CH15, E133, E133N, E177, 505, 523, 1015, 1215	M15F, M15AA, TR133R, TR177, M505, MN1500, PC1500	615, 815, 7AA	15M, 15NC, 221, 1101M, 1113M, 1306AP, 1306M, 1314M, 1606M				
"(C″ CELL H	IOLDE	RS	(^{BATTERY} SIZE	$\frac{.875}{1.125}$ 0.D. ×	<u>1.875</u> H)				
2224	1	1	CH35, M14F, M14HD,		1C,	14A, 14C,				
2225	2	2	E93, 935, 1235, EV35, EN93	NC14C, TR286, MN1400, PC1400	614, 814	14D, 14F, 14NC, 1600M				
"C	" CELL H	OLDE	RS	(BATTER) SIZE	⁽ <u>1.187</u> 0.D. >	≺ ^{2.312} H)				
2226	1	1	CH50,	M13F, NC13D,	2D,	13A, 13C,				
2227	2	2	E95,950, 1250, EV50, EN95	S42, M13HD, TR289, MN1300, PC1300	6D, 613, 813	13D, 13F, 13NC, 1115M, 1810M				

STEEL HOLDERS WITH PC LUGS

ELIMINATES WIRING • LABOR SAVING For printed circuitry we have standardized our most popular holders with PC Lugs. Choice of single or multiple holders "AA" and "C" assembled with Cat. No. 4002 lug. "D" assembled with Cat. No. 4003 lug.



			BATTERY CROSS REFERENCE								
CAT.	HOLDS NO.OF	FIG.		All Batteries listed within boxes are in the same size group							
NO.	CELLS	NO.	EVEREADY	DURACELL	RAY-O-VAC	NEDA					
"AA" CELL HOLDERS (BATTERY 531 SIZE 565 0.D.× 1.988 H)											
2228	1	3	E9, EV15, EN91, CH15, E133,	ZM9, RM12R, NC15AA, M15F, M15AA, TR133R,	5AA,	15, 15A, 15C, 15D, 15F,					
2229	2	4	E133N, E177, 505, 523, 1015, 1215	TR177, M505, MN1500, PC1500	615, 815, 7AA	15M, 15NC, 221, 1101M, 1113M, 1306AP, 1306M, 1314M, 1606M					
"(C" CELL H	IOLDE	RS	(BATTER) SIZE	′ <u></u>	(<u>1.875</u> 1.969 H)					
2230	1	3	CH35,	M14F, M14HD,	10,	14A, 14C,					
2231	2	4	E93, 935, 1235, EV35, EN93	NC14C, TR286, MN1400, PC1400	614, 814	14D, 14F, 14NC, 1600M					
"[D″ CELL ⊦	IOLDE	RS	(^{BATTERY} SIZE	′ <u>1.187</u> 0.D. ≻	< 2.312 H)					
2232	1	3	CH50,	CH50, M13F, NC13D,		13A, 13C,					
2233	2	4	E95,950, 1250, EV50, EN95	S42, M13HD, TR289, MN1300, PC1300	6D, 613, 813	13D, 13F, 13NC, 1115M, 1810M					



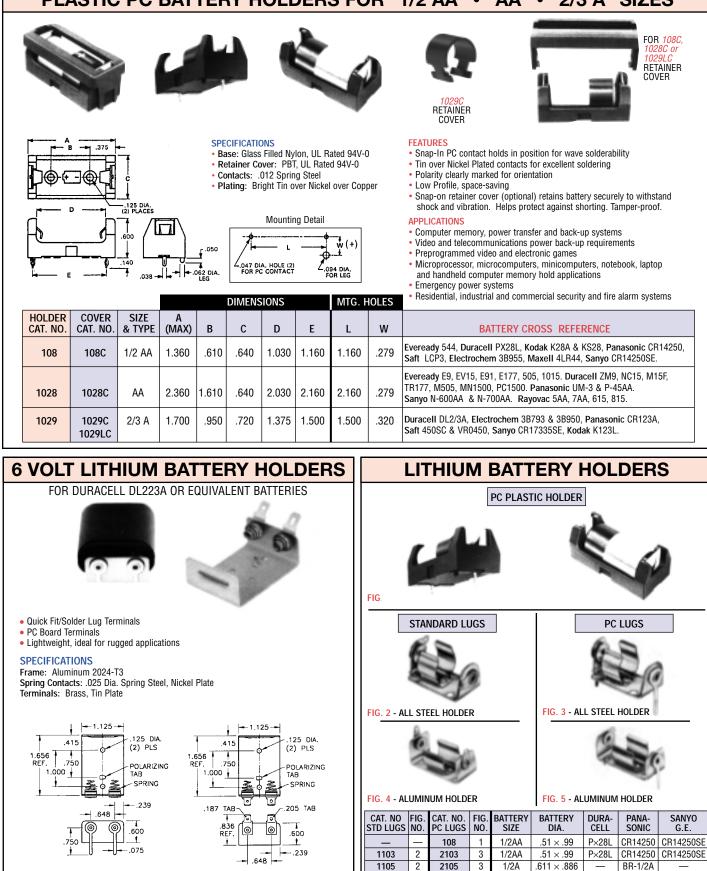
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LITHIUM BATTERY HOLDERS



PLASTIC PC BATTERY HOLDERS FOR "1/2 AA" • "AA" • "2/3 A" SIZES



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CAT. NO. 223

Quick-Fit/Solder Lug

CAT. NO. 224

PC Terminals



.661 × 1.315 DL-2/3A BR-2/3A CR17335SE

.661 × 1.315 DL-2/3A BR-2/3A CR17335SE

2/3A

2/3A

1

5

1029

131

4

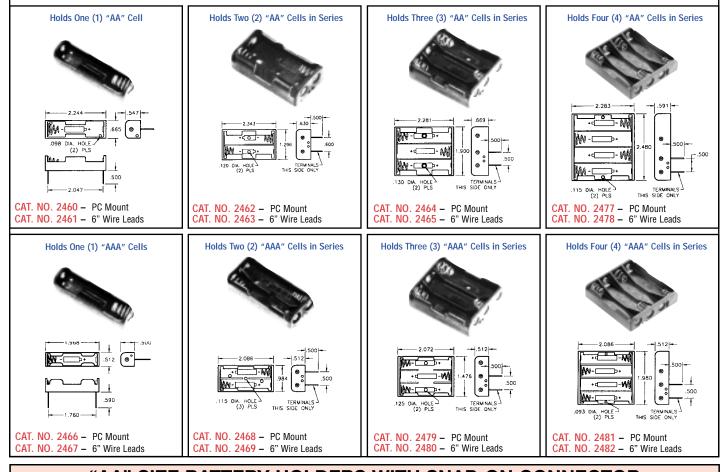


Designers'

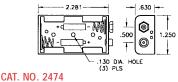
PLASTIC BATTERY HOLDERS

PLASTIC BATTERY HOLDERS FOR "AA" • "AAA" SIZES

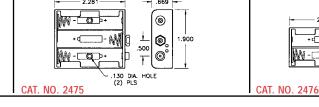
- Economical design, available with PC terminals or wire leads
- Batteries securely held in place to assure a positive connection and maintain a low contact resistance
- Contact springs self-adjust to variations in battery length
- Withstands shock and vibration
- Available with solder lugs or male/female snap fasteners
- SPECIFICATIONS
- Holder: Polypropylene
- Springs: Spring Steel, Nickel Plate
- PC Pins: .031 Brass, Nickel Plate
- Wires (Red & Black): #26AWG, Tinned, .187 end strip UL/CSA1007



"AA" SIZE BATTERY HOLDERS WITH SNAP-ON CONNECTOR · Features separable "snap-on/snap-off" battery connector (9 Volt type) to assure · Battery contact springs self adjust to variations in battery length reliable connections to battery powered equipment, controls and systems · Withstands shock and vibration Economical design, holders available for two, three or four cells. Wired in · Ideally mates with Keystone 9 Volt battery straps and connectors series to accept connector (9 Volt type) SPECIFICATIONS Batteries securely held in place to maintain a positive contact and a low Holder: Polypropylene; Male/Female Contacts: Brass, Nickel Plate contact resistance Battery Springs: Spring Steel, Nickel Plate Holds Two (2) "AA" Cells in Series Holds Three (3) "AA" Cells in Series Holds Four (4) "AA" Cells in Series 2.28



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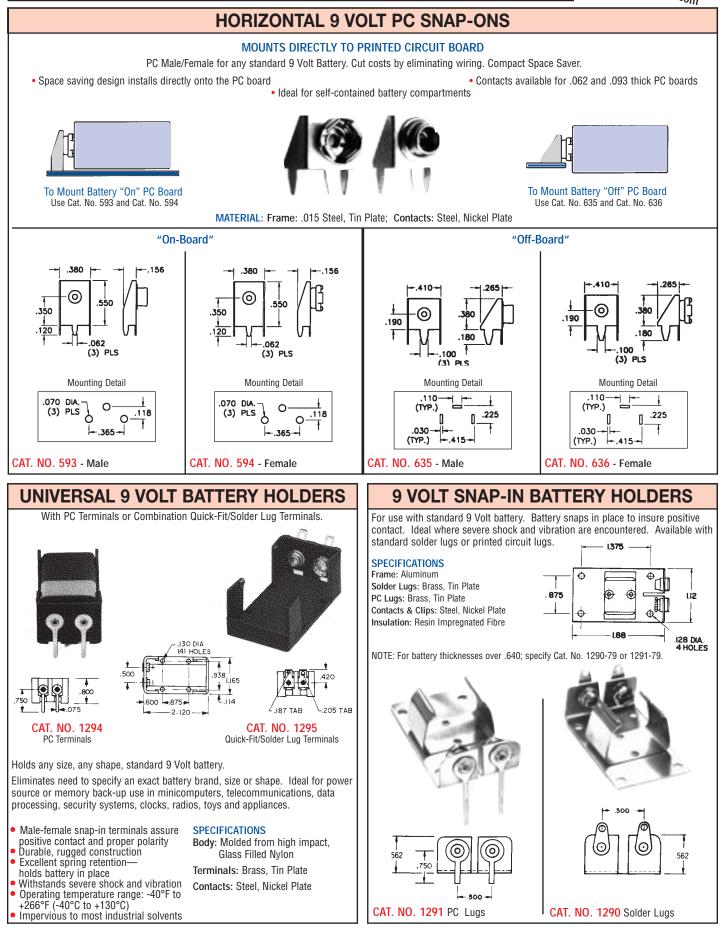
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9 VOLT HOLDERS & CONNECTORS





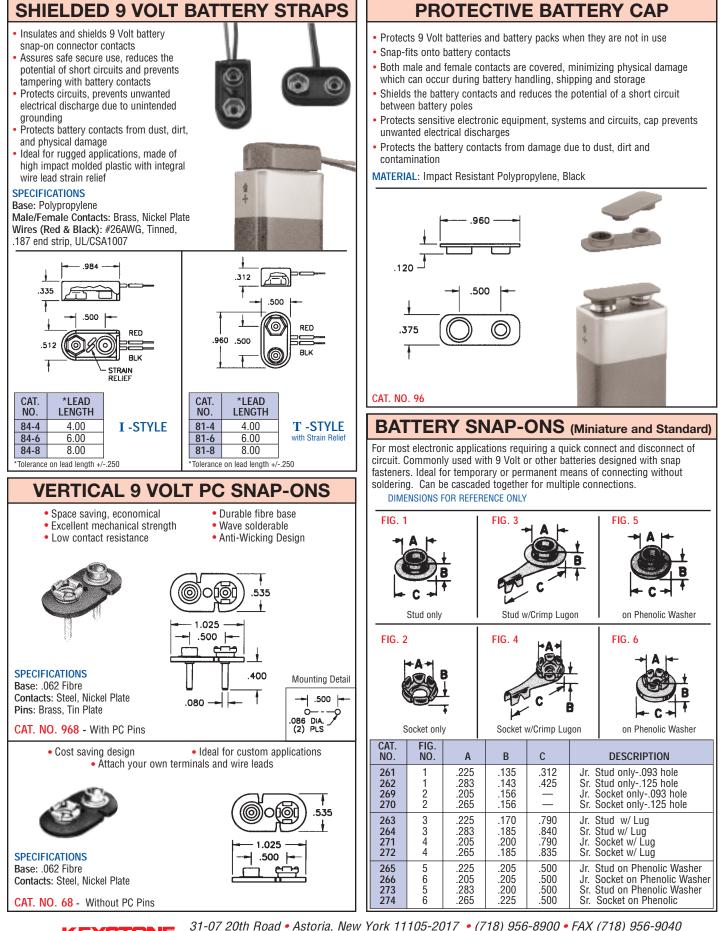
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Designers' 9 VOL

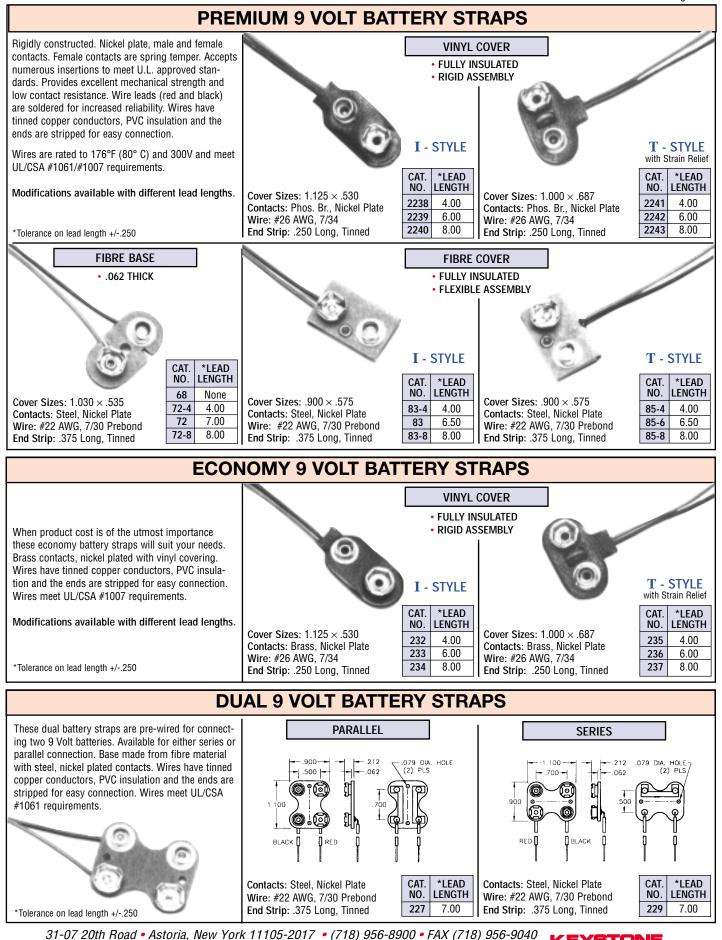
9 VOLT STRAPS & CONNECTORS



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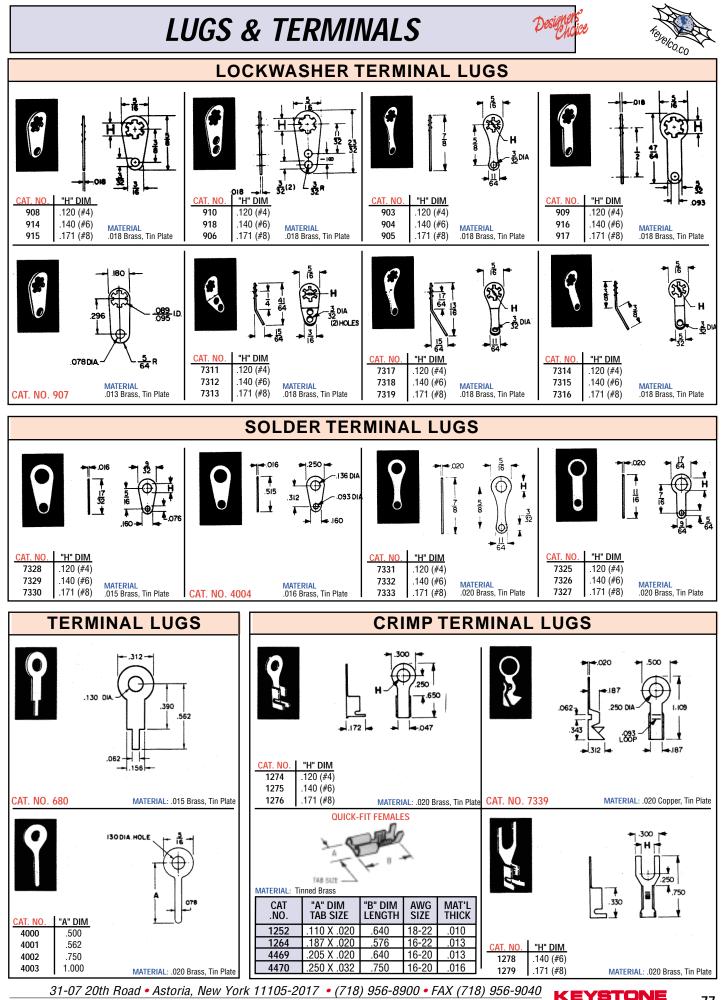
9 VOLT BATTERY STRAPS





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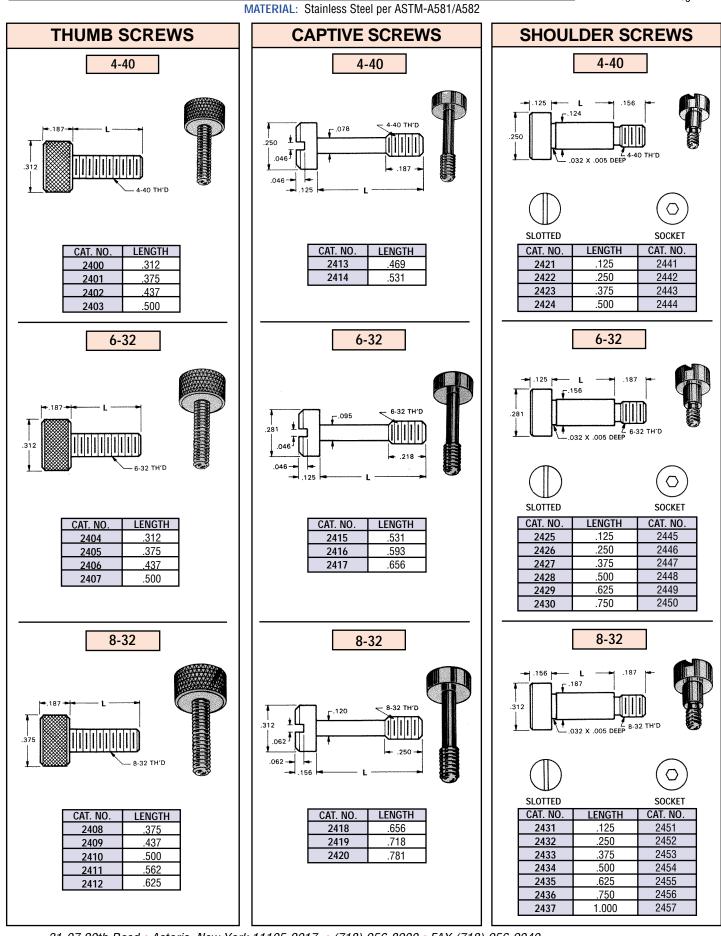


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PANEL HARDWARE



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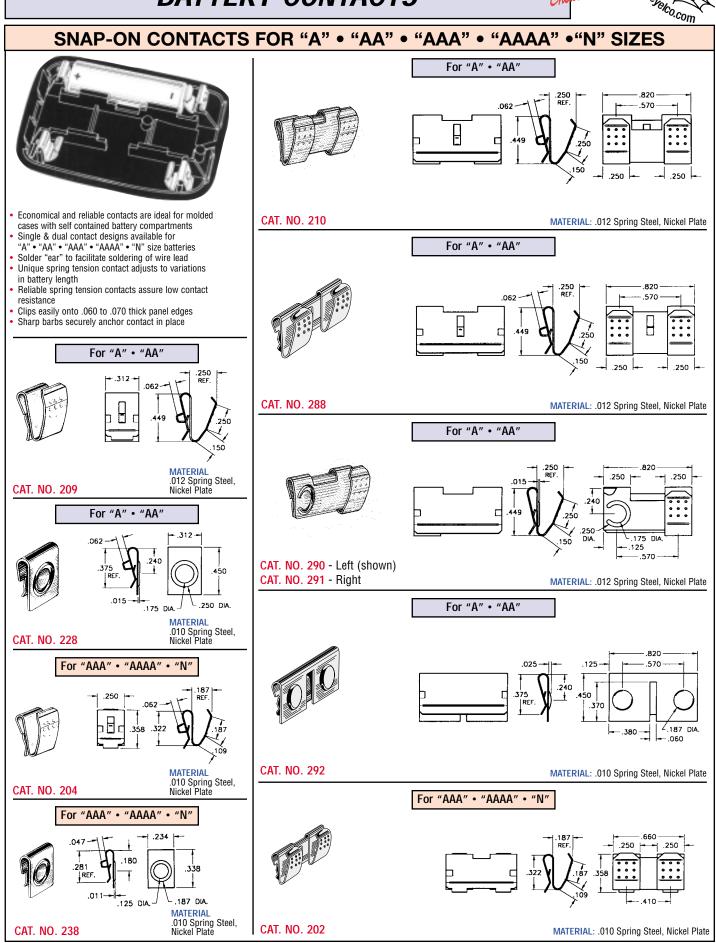


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<u>KEYSTONE</u>





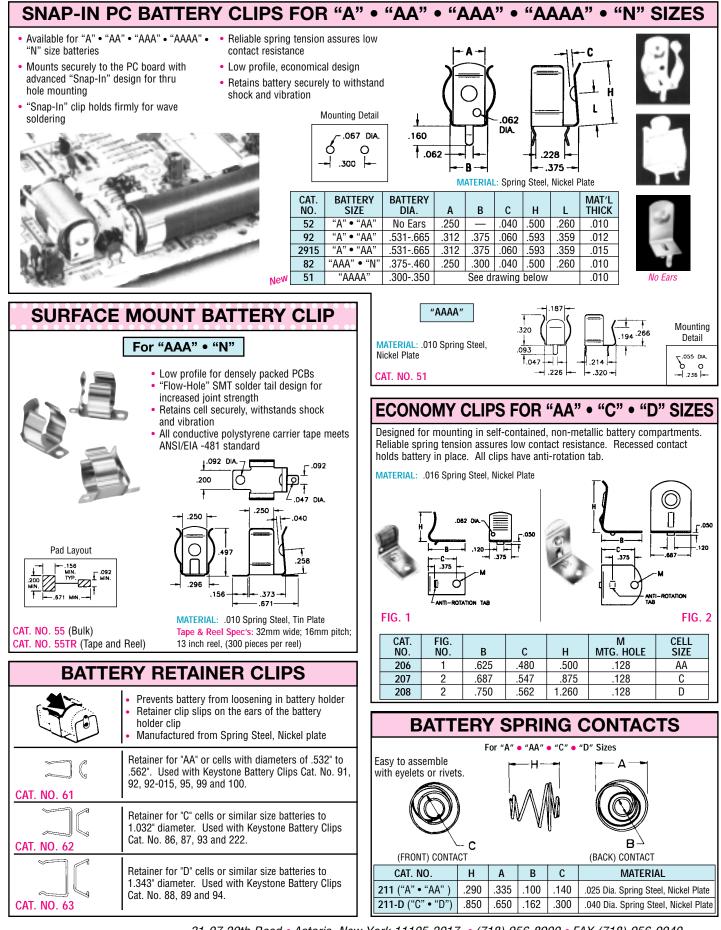
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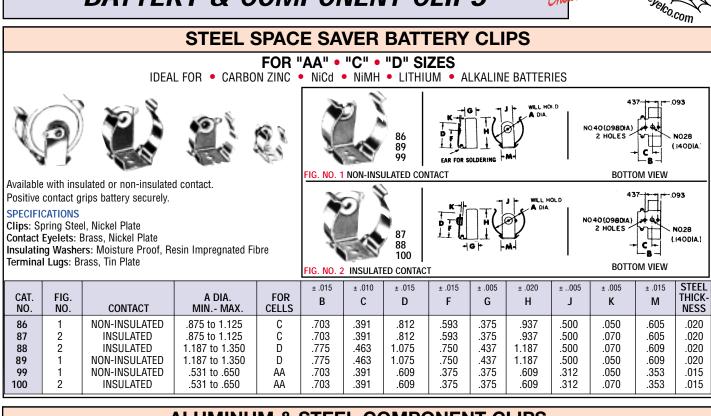
BATTERY CLIPS & CONTACTS

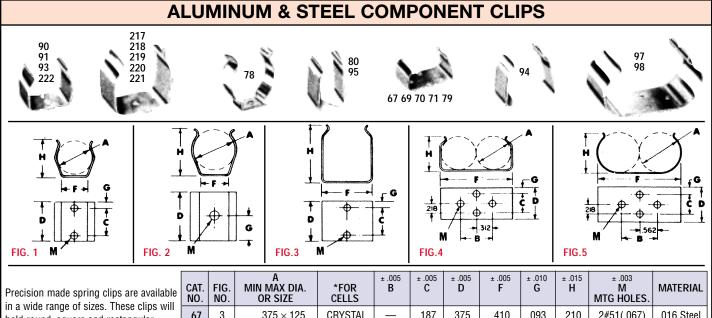


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BATTERY & COMPONENT CLIPS





in a wide range of sizes. These clips will	NO.	NO.	OR SIZE	CELLS							MTG HOLES.	
hold round, square and rectangular	67	3	.375 ×.125	CRYSTAL	_	.187	.375	.410	.093	.210	2#51(.067)	.016 Steel
, ,	69	4	.562 (2)	(2) AA	.625	.437	.625	1.125	.093	.562	4#40(.098)	.015 Steel
batteries or components with similar	70	4	.656 (2)	(2) RM12	.625	.437	.625	1.343	.093	.740	4#40(.098)	.025 Alum.
dimensions. Clips are manufactured	71	3	.593 × 1.031	"9" Volt	_	.437	.625	1.031	.093	.687	2#40(.098)	.015 Steel
from Aluminum or Spring Steel.	78	2	1.187 to 1.350	D	—	—	.500	.562	.250	1.218	1#29(.136)	.020 Steel
	79	4	$.650 \times 1.280$	TR146X	.625	.437	.625	1.050	.093	.765	4#40(.098)	.015 Steel
MATERIAL	80	3	$.650 \times 1.280$	"9" VOLT	—	.437	.625	.675	.093	1.187	2#40(.098)	.015 Steel
	90	1	.375 to .468	AAA	_	.437	.625	.312	.093	.453	2#40(.098)	.020 Alum.
Steel Clips: Spring Steel, Nickel Plate	91	1	.531 to .656	AA	_	.437	.625	.406	.093	.562	2#40(.098)	.020 Alum.
Aluminum Clips: 2024-T3	93	1	.875 to 1.125	С	_	.437	.625	.937	.093	.921	2#40(.098)	.020 Alum.
	94	3	1.187 to 1.375	D	—	.437	.625	1.250	.093	1.218	2#40(.098)	.032 Alum.
	95	3	$.625 \times 1.000$	"9" VOLT	—	.437	.625	.656	.093	1.125	2#40(.098)	.020 Alum.
*These clips will hold batteries or	97	5	1.031 (2)	(2) C	—	.437	.625	2.062	.093	1.125	2#40(.098)	.020 Alum.
components of similar dimensions.	98	5	1.312 (2)	(2) D	1.125	.437	1.000	2.656	.281	1.437	4#40(.098)	.032 Alum.
	217	2	1.375 to 1.500	NiCd	—	—	.812	1.218	.406	1.430	1#22(.157)	.025 Steel
	218	2	1.437 to 1.687	NiCd	—	—	.812	1.375	.406	1.531	1#22(.157)	.025 Steel
	219	2	2.000 to 2.500	NiCd	—	—	.812	1.687	.406	2.156	1#22(.157)	.025 Steel
	220	2	.187 to .203	5mm	—	—	.315	.158	.157	.280	1#42(.093)	.010 Steel
	221	2	.859 to .890	.875	—	—	.468	.828	.234	.906	1#22(.157)	.020 Steel
	222	1	.875 to 1.125	С	—	.437	.625	.937	.093	.921	2#40(.098)	.020 Steel
21 07 20th Dood Actoria	Nou	v Var	L 1110E 0017	(710) 05	<u>c 0000</u>	- FAV	(710)	056 00	10			

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STEEL BATTERY HOLDERS

FIG. 19

FIG

RUGGED STEEL BATTERY HOLDERS

An established design that has gained wide acceptance for commercial and military applications. Batteries are held under constant spring tension assuring low contact resistance. Retainer clips are available to lock batteries in place and prevent shifting or loosening of the batteries. Recommended for use where shock or severe vibration is encountered. Special fabrication for more than four batteries or variations from standard stock parts can be assembled to meet your requirements.



- Ideal for NiCd, Alkaline, NiMH, Carbon, Zinc and Lithium Cells
- Corrosion Resistant, Nickel Plate
- Brass Contacts, Nickel Plate
- Moisture Proof Resin Impregnated, Fibre Insultating Washers

2100 SERIES

(FULLY INSULATED)

1100 SERIES (GROUNDED ONE SIDE)



INSULATED

CONTACT

DIMPLE

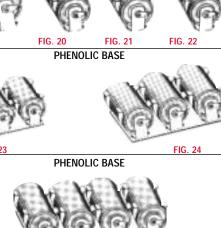
CONTACT

INSULATED CONTACTS

1100 SERIES	2100 SERIES			_	BATTERY CROSS REFERENCE All Batteries listed within boxes are in the same size group					
ONE CONTACT INSULATED CAT. NO.	ALL CONTACTS INSULATED CAT. NO.	FIG. NO.	HOLDS NO.OF CELLS	EVEREADY	DURACELL	RAY-O-VAC	NEDA			
"AA" CELL HOLDERS (BATTERY .531 SIZE .565 0.D.× 1.996 H)										
1139	2139	19	1		7140 014100		15,15A,15C,			
_	2140*	23	2	E9, EV15, EN91.	ZM9, RM12R, NC15AA,		15D,15F,			
_	2171*	24	3	CH15, E133,	M15F, M15AA,	5AA,	15M,15NC,			
	2182*	25	4	E133N, E177,	TR133R,	615,	221,1101M, 1113M.			
1189	2189	20	2	505, 523,	TR177, M505, MN1500, PC1500	815, 7AA	1306AP,			
1191	2191	21	3	1015,1215			1306M,			
1194	2194	22	4				1314M,1606M			
"C	" CELL HOLDE	RS		(BATTERY	.D. × ^{1.875} / _{1.969} H)				
1173	2173	19	1		M14F, M14HD, NC14C, TD4C,	1C, 614, 814				
_	2174*	23	2]						
_	2187*	24	3	CH35,			14A, 14C,			
_	2188*	25	4	E93, 935, 1235, EV35,			14D,14F, 14NC,			
1185	2185	20	2	EN93	TR286, MN1400,		1600M			
1195	2195	21	3		PC1400		10001			
1198	2198	22	4							
"D'	CELL HOLDE	RS		(BATTERY 1.187 SIZE 1.375	$D. \times \frac{2.312}{2.412} H$)			
1175	2175	19	1							
_	2176*	23	2		M13F,		13A, 13C,			
	2190*	24	3	CH50,	NC13D, S42,	2D, 6D, 613,	13D, 13F, 13NC.			
_	2192*	25	4	E95, 950, 1250, EV50,	M13HD, TR289.	813	1115M,			
1186	2186	20	2	EN95	MN1300,		1810M			
1199	2199	21	3		PC1300					
1162	2162	22	4							
*Clips mounted	on Phenolic 1/16"	thick								



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INSULATOR TUBES SUPPLIED FOR 2-3-4 CELLS END TO END

FIG. 25

MODIFICATIONS AVAILABLE Use our engineering services for your custom battery holders or modifications to our standard products.

JUMPERS Jumpers permit cost saving and eliminates wiring.

SPECIAL LUGS Printed Circuit, Solderless or Quick-Fit Lugs available for your special connection requirements.

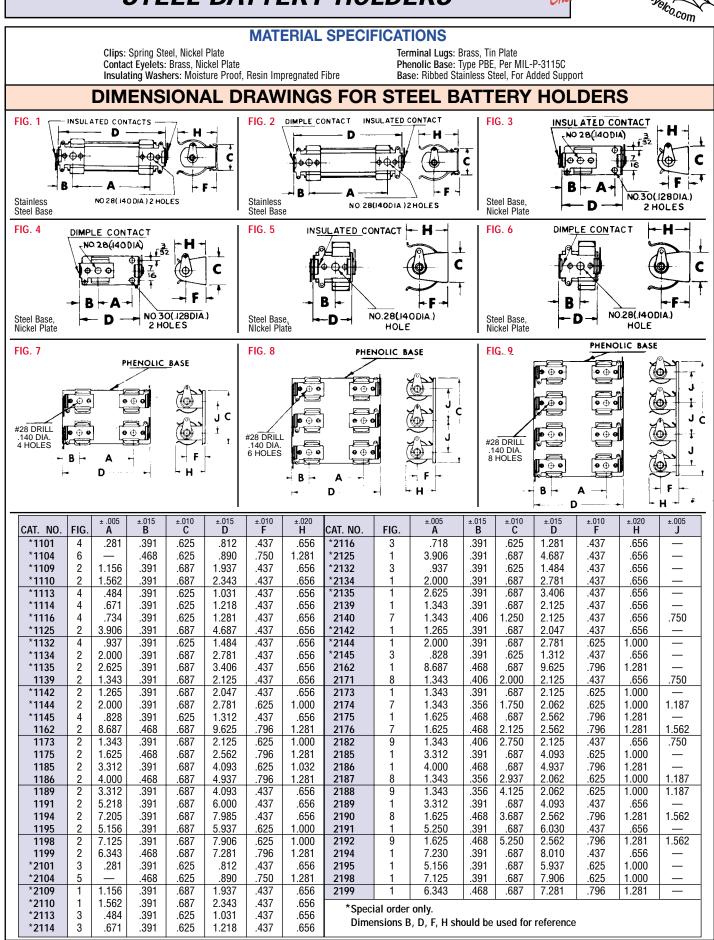
MULTIPLE UNITS Jumpers, special lugs and polarized contacts available for custom applications.

POLARIZED CONTACTS Assure proper battery insertion and correct polarity.



MATERIAL: Molded Polyethylene CAT. NO. 59 (RED) CAT. NO. 60 (BLACK)

STEEL BATTERY HOLDERS



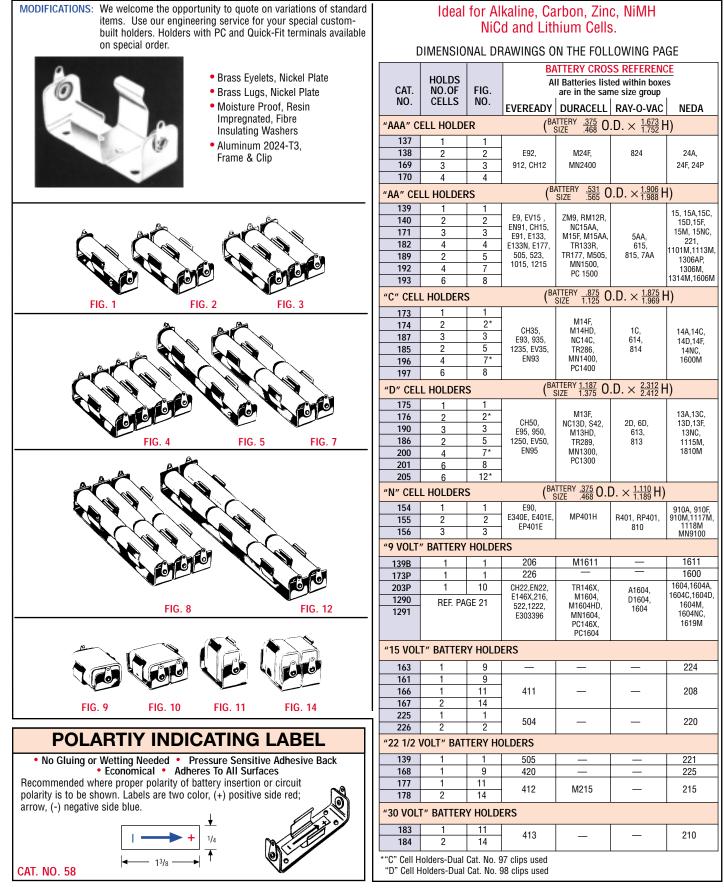
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ALUMINUM BATTERY HOLDERS

A standard line of battery holders available for immediate shipment from stock. Low cost, lightweight and sturdily constructed of quality materials. Good electrical contact, low leakage current and snap-fit clips are the outstanding features.



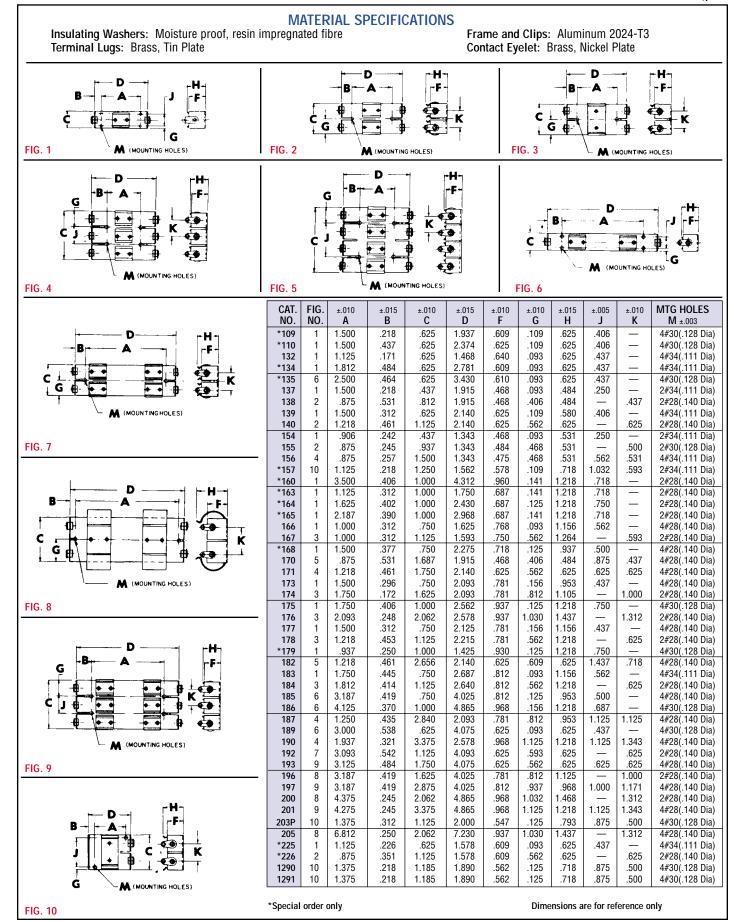
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INTERCONNECT BATTERY HOLDERS

ALUMINUM HOLDERS CONNECTED IN SERIES

ELIMINATES WIRING • LABOR SAVING

Features pre-connected jumper strap insulated from the Aluminum base. Batteries held in series circuit without need of additional wiring.

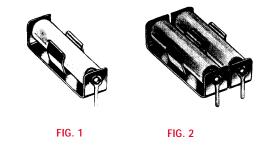
FIG. 2 FIG. 2 FIG. 4

				BATTERY CROSS	REFERENCE]					
CAT.	HOLDS NO.OF	FIG.		All Batteries listed within boxes are in the same size group							
NO.	CELLS	ELLS NO.	EVEREADY	DURACELL	RAY-O-VAC	NEDA					
"AA" CELL HOLDERS (BATTERY 531 SIZE 565 0.D.× 1.988 H)											
146 147 148	2 3 4	2 3 4	E9, EV15, EN91, CH15, E133, E133N, E177, 505, 523, 1015, 1215	ZM9, RM12R, NC15AA, M15F, M15AA, TR133R, TR177, M505, MN1500, PC1500	5AA, 615, 815, 7AA	15, 15A, 15C, 15D, 15F, 15M, 15NC, 221, 1101M, 1113M, 1306AP, 1306M, 1314M, 1606M					
"(" CELL H	OLDE	RS	(BATTERY SIZE	<u></u>	1.875 1.969 H)					
149 150 151	2 3 4	2 3 4	CH35, E93, 935, 1235, EV35, EN93	M14F, M14HD, NC14C, TR286, MN1400, PC1400	1C, 614, 814	14A, 14C, 14D, 14F, 14NC, 1600M					
"D	" CELL H	OLDE	RS	(BATTERY SIZE	$\frac{1.187}{1.375}$ 0.D. ×	: <u>2.312</u> H)					
152 153 158	2 3 4	2 3 4	CH50, E95,950, 1250, EV50, EN95	M13F, NC13D, S42, M13HD, TR289, MN1300, PC1300	2D, 6D, 613, 813	13A, 13C, 13D, 13F, 13NC, 1115M, 1810M					

ALUMINUM HOLDERS WITH PC LUGS

ELIMINATES WIRING • LABOR SAVING

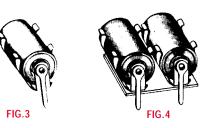
For printed circuitry we have standardized our most popular holders with PC Lugs. Choice of single or multiple holders "AA" and "C" assembled with Cat. No. 4002 lug. "D" assembled with Cat. No. 4003 lug.



				BATTERY CROSS REFERENCE						
CAT. NO.	HOLDS NO. OF CELLS	FIG. NO.	All Batteries listed within boxes are in the same size group							
NO.	LELLS	10.	EVEREADY	DURACELL	RAY-O-VAC	NEDA				
"]	AA" CELL	HOLD	ERS	(BATTER SIZE	$\frac{9.531}{.565}$ 0.D.×	<u>1.906</u> H)				
2222	1	1	E9, EV15,	ZM9, RM12R, NC15AA,	5AA,	15, 15A, 15C, 15D, 15F,				
2223	2	2	EN91, CH15, E133, E133N, E177, 505, 523, 1015, 1215	M15F, M15AA, TR133R, TR177, M505, MN1500, PC1500	615, 815, 7AA	15M, 15NC, 221, 1101M, 1113M, 1306AP, 1306M, 1314M, 1606M				
"(C″ CELL H	IOLDE	RS	(^{BATTERY} SIZE	$\frac{.875}{1.125}$ 0.D. ×	<u>1.875</u> H)				
2224	1	1	CH35, M14F, M14HD,		1C,	14A, 14C,				
2225	2	2	E93, 935, 1235, EV35, EN93	NC14C, TR286, MN1400, PC1400	614, 814	14D, 14F, 14NC, 1600M				
"C	" CELL H	OLDE	RS	(BATTER) SIZE	⁽ <u>1.187</u> 0.D. >	≺ ^{2.312} H)				
2226	1	1	CH50,	M13F, NC13D,	2D,	13A, 13C,				
2227	2	2	E95,950, 1250, EV50, EN95	S42, M13HD, TR289, MN1300, PC1300	6D, 613, 813	13D, 13F, 13NC, 1115M, 1810M				

STEEL HOLDERS WITH PC LUGS

ELIMINATES WIRING • LABOR SAVING For printed circuitry we have standardized our most popular holders with PC Lugs. Choice of single or multiple holders "AA" and "C" assembled with Cat. No. 4002 lug. "D" assembled with Cat. No. 4003 lug.



			BATTERY CROSS REFERENCE								
CAT.	HOLDS NO.OF	FIG.		All Batteries listed within boxes are in the same size group							
NO.	CELLS	NO.	EVEREADY	DURACELL	RAY-O-VAC	NEDA					
"AA" CELL HOLDERS (BATTERY 531 SIZE 565 0.D.× 1.906 H)											
2228	1	3	E9, EV15, EN91, CH15, E133,	ZM9, RM12R, NC15AA, M15F, M15AA, TR133R,	5AA,	15, 15A, 15C, 15D, 15F,					
2229	2	4	E133N, E177, 505, 523, 1015, 1215	TR177, M505, MN1500, PC1500	615, 815, 7AA	15M, 15NC, 221, 1101M, 1113M, 1306AP, 1306M, 1314M, 1606M					
"(C" CELL H	IOLDE	RS	(BATTER) SIZE	′ <u></u>	(<u>1.875</u> 1.969 H)					
2230	1	3	CH35,	M14F, M14HD,	10,	14A, 14C,					
2231	2	4	E93, 935, 1235, EV35, EN93	NC14C, TR286, MN1400, PC1400	614, 814	14D, 14F, 14NC, 1600M					
"[D″ CELL ⊦	IOLDE	RS	(^{BATTERY} SIZE	′ <u>1.187</u> 0.D. ≻	< 2.312 H)					
2232	1	3	CH50,	CH50, M13F, NC13D,		13A, 13C,					
2233	2	4	E95,950, 1250, EV50, EN95	S42, M13HD, TR289, MN1300, PC1300	6D, 613, 813	13D, 13F, 13NC, 1115M, 1810M					



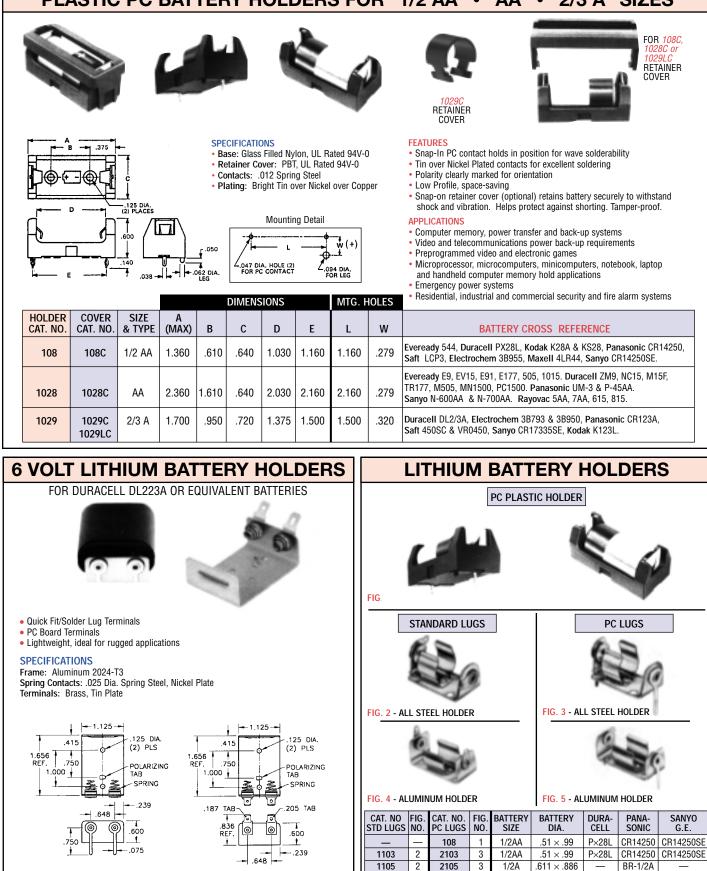
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LITHIUM BATTERY HOLDERS



PLASTIC PC BATTERY HOLDERS FOR "1/2 AA" • "AA" • "2/3 A" SIZES



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CAT. NO. 223

Quick-Fit/Solder Lug

CAT. NO. 224

PC Terminals



.661 × 1.315 DL-2/3A BR-2/3A CR17335SE

.661 × 1.315 DL-2/3A BR-2/3A CR17335SE

2/3A

2/3A

1

5

1029

131

4

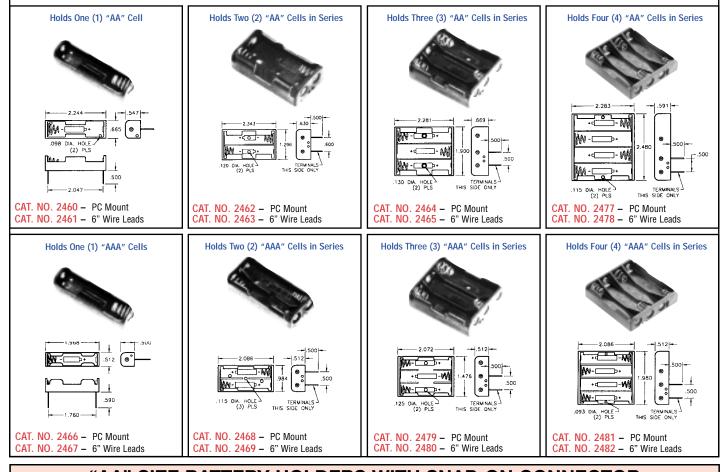


Designers'

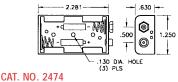
PLASTIC BATTERY HOLDERS

PLASTIC BATTERY HOLDERS FOR "AA" • "AAA" SIZES

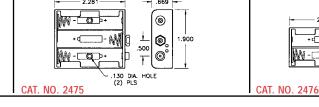
- Economical design, available with PC terminals or wire leads
- Batteries securely held in place to assure a positive connection and maintain a low contact resistance
- Contact springs self-adjust to variations in battery length
- Withstands shock and vibration
- Available with solder lugs or male/female snap fasteners
- SPECIFICATIONS
- Holder: Polypropylene
- Springs: Spring Steel, Nickel Plate
- PC Pins: .031 Brass, Nickel Plate
- Wires (Red & Black): #26AWG, Tinned, .187 end strip UL/CSA1007



"AA" SIZE BATTERY HOLDERS WITH SNAP-ON CONNECTOR · Features separable "snap-on/snap-off" battery connector (9 Volt type) to assure · Battery contact springs self adjust to variations in battery length reliable connections to battery powered equipment, controls and systems · Withstands shock and vibration Economical design, holders available for two, three or four cells. Wired in · Ideally mates with Keystone 9 Volt battery straps and connectors series to accept connector (9 Volt type) SPECIFICATIONS Batteries securely held in place to maintain a positive contact and a low Holder: Polypropylene; Male/Female Contacts: Brass, Nickel Plate contact resistance Battery Springs: Spring Steel, Nickel Plate Holds Two (2) "AA" Cells in Series Holds Three (3) "AA" Cells in Series Holds Four (4) "AA" Cells in Series 2.28



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2 281

1 100

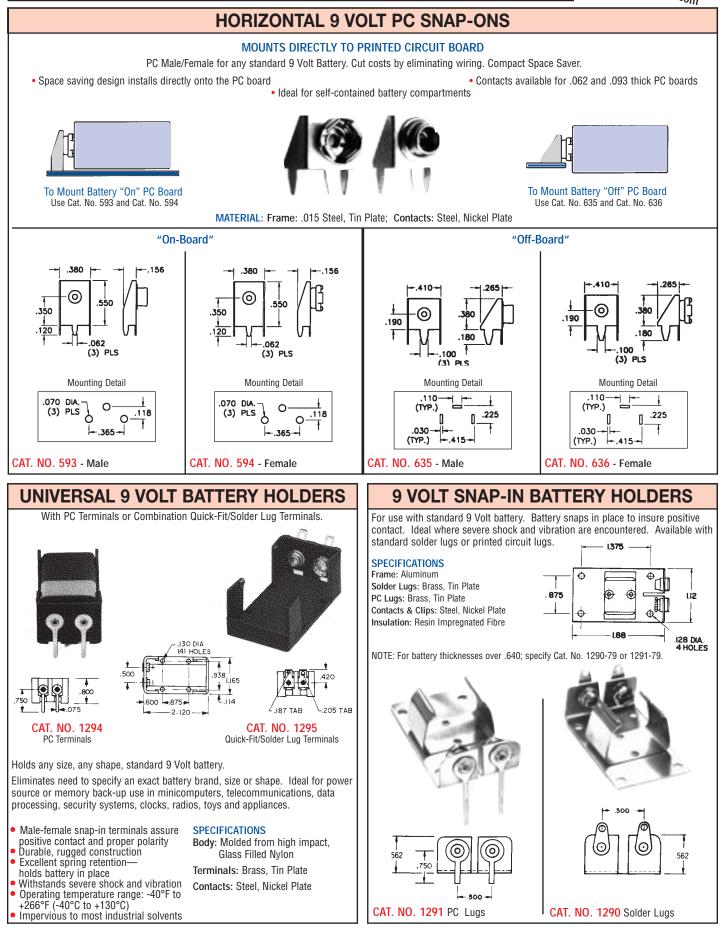
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9 VOLT HOLDERS & CONNECTORS





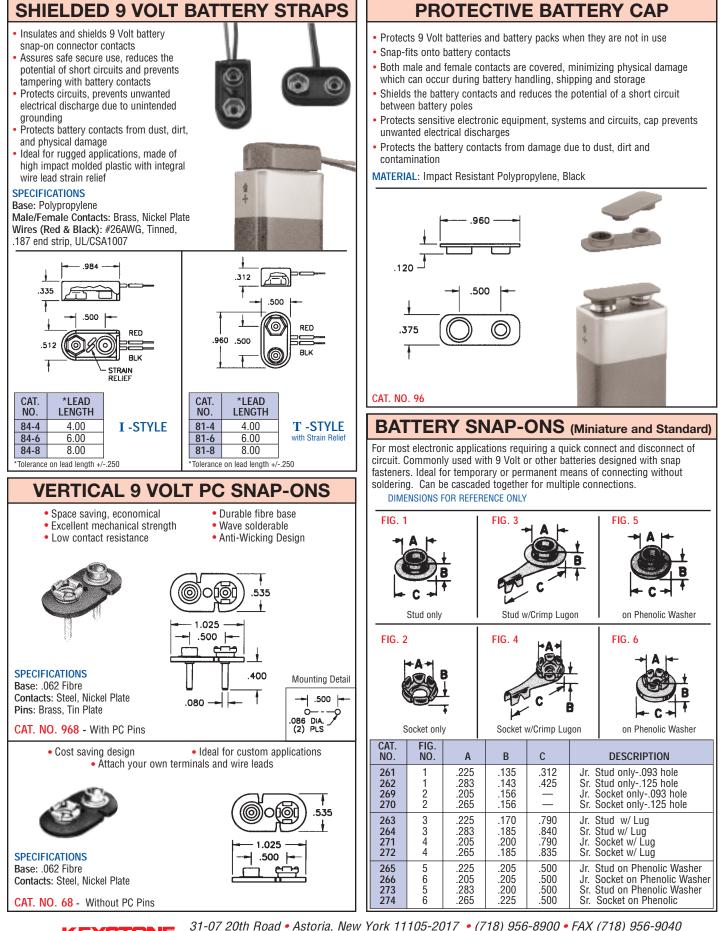
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Designers' 9 VOL

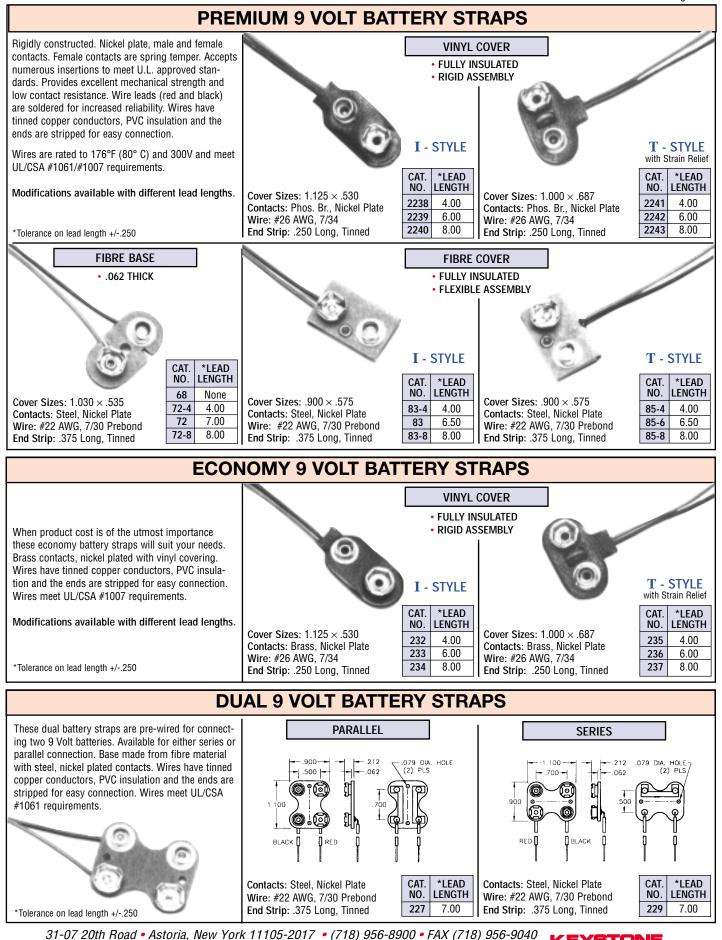
9 VOLT STRAPS & CONNECTORS



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9 VOLT BATTERY STRAPS





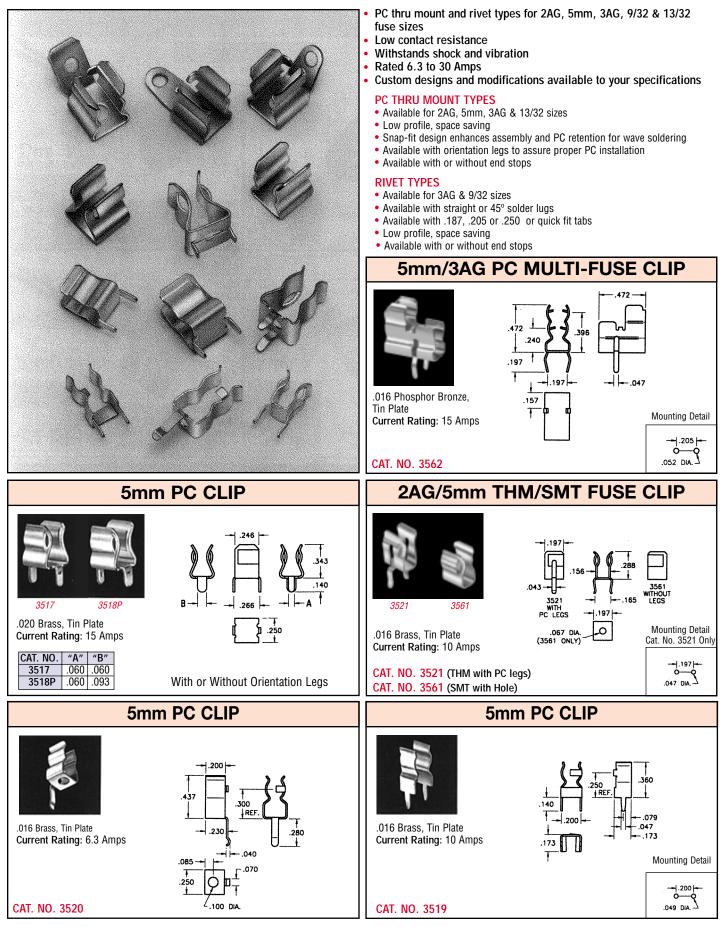
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Designers

2AG & 5mm FUSE CLIPS



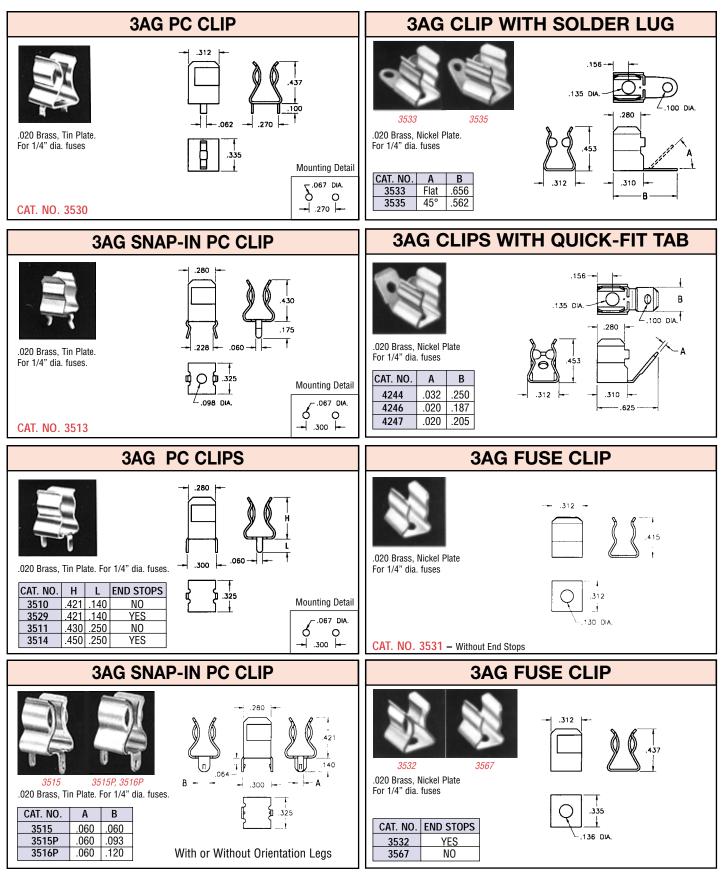
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3AG (.250") FUSE CLIPS



- Snap-In and Press-In design for wave soldering
 Low profile, space saving
 Available with orientation legs
- Available with and without end stops
 Low contact resistance
 Rated 15 Amps
 Economical and easy to assemble



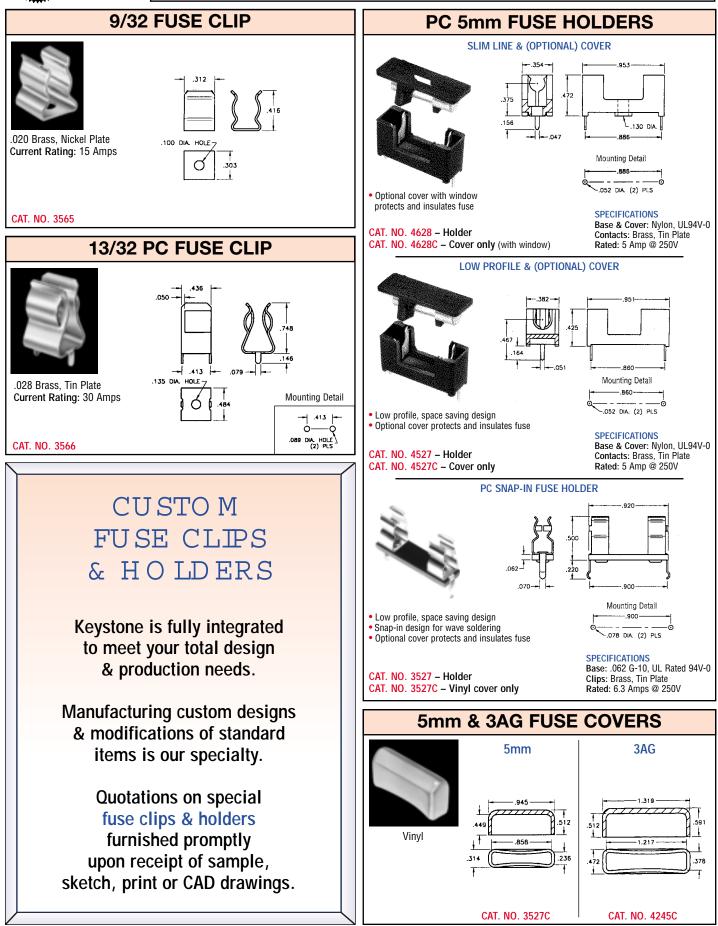
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FUSE CLIPS & HOLDERS

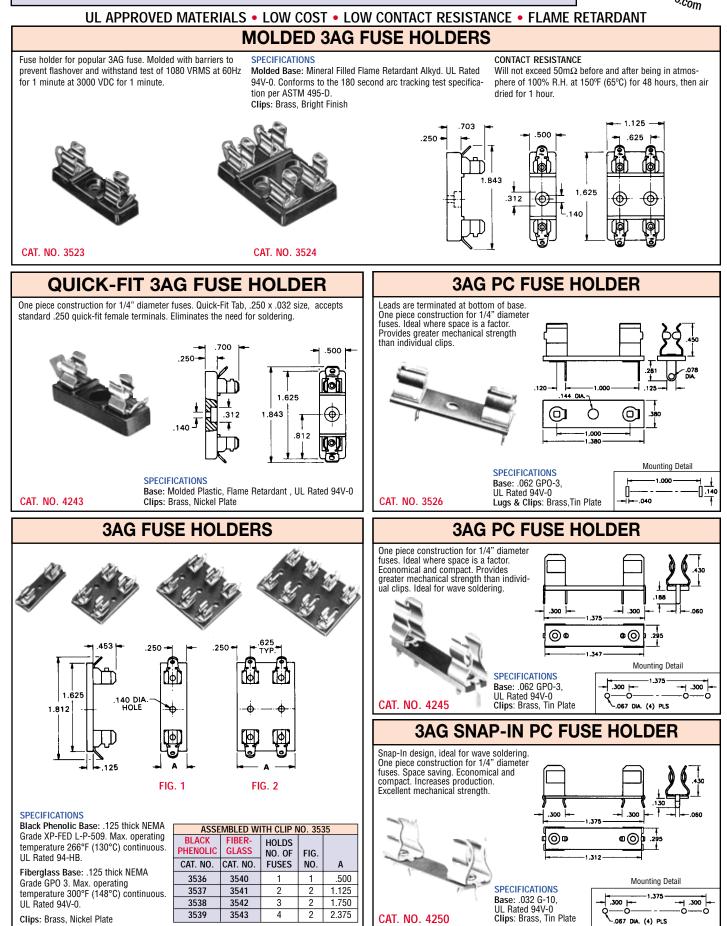


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KEYSTONE

3AG (.250") FUSE HOLDERS





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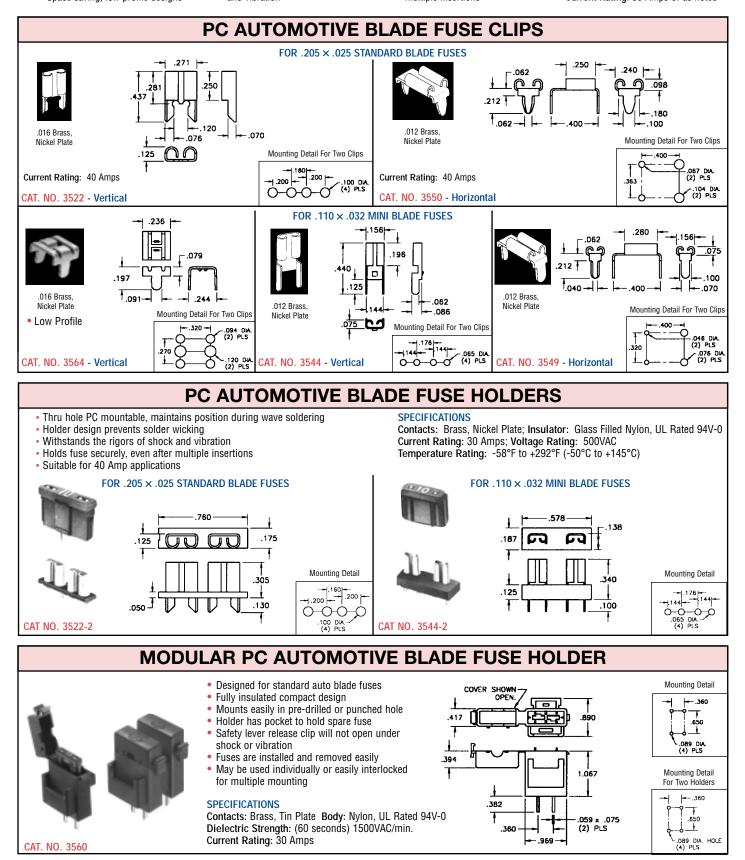




"AUTO" FUSE CLIPS & HOLDERS

- Available for standard and mini blade fuses
- Thru hole PC mountable, maintains position during wave soldering
- Space saving, low profile designs
- · Horizontal and vertical mini blade clip for Littelfuse ATO 297 series and
- Bussmann ATM fuses
 - · Withstands the rigors of shock
 - and vibration
- · Horizontal and vertical standard blade clips for Littelfuse ATO 257 series and Bussmann ATC fuses Holds fuse securely, even after multiple insertions
- Orientation legs assure proper PC installation

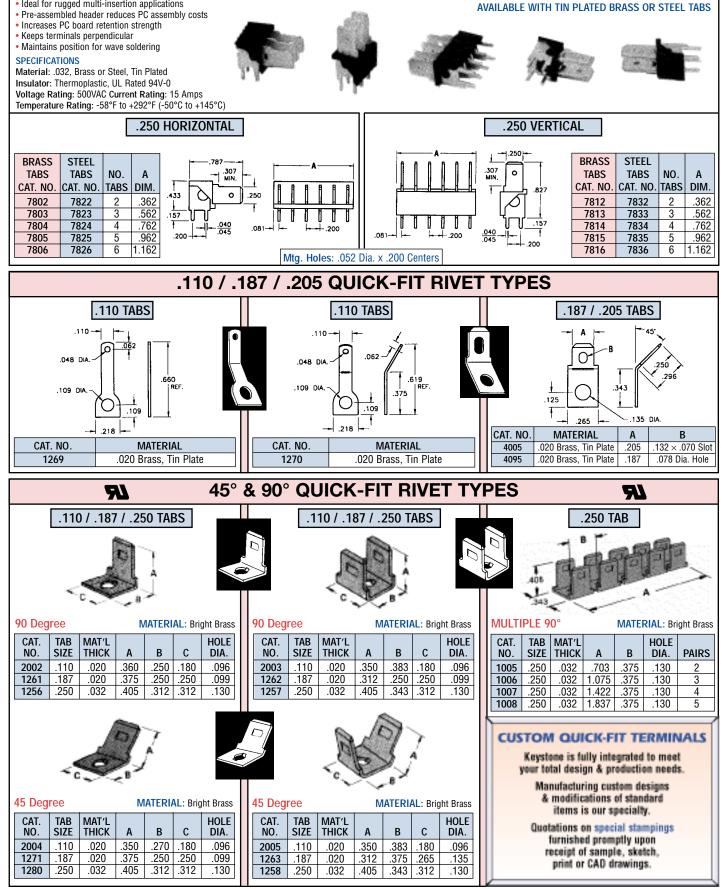
Voltage Rating: 500VAC Current Rating: 30 Amps or as noted



EYSTONE 28

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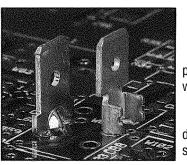
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PC QUICK-FIT TERMINALS

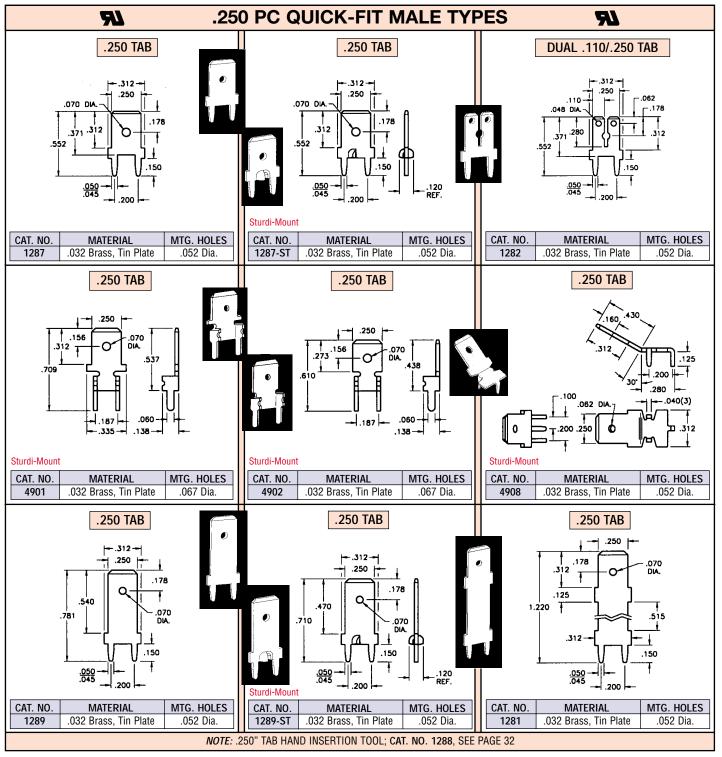




Underwriters Laboratories, Inc. Recognized Component Program — UL File Number E201546

UL file number **E201546** has been assigned to Keystone Electronics' "Quick-Fit" terminals (see pages 29-31) indicating recognition by Underwriters Laboratories Inc. that they are in compliance with their component program.

Underwriters Laboratories Inc. component program assures that "Quick-Fit" terminals meet the dimensional and performance requirements of the National Electrical Manufacturers Association specification number NEMA2-1982-(1988) and UL310.

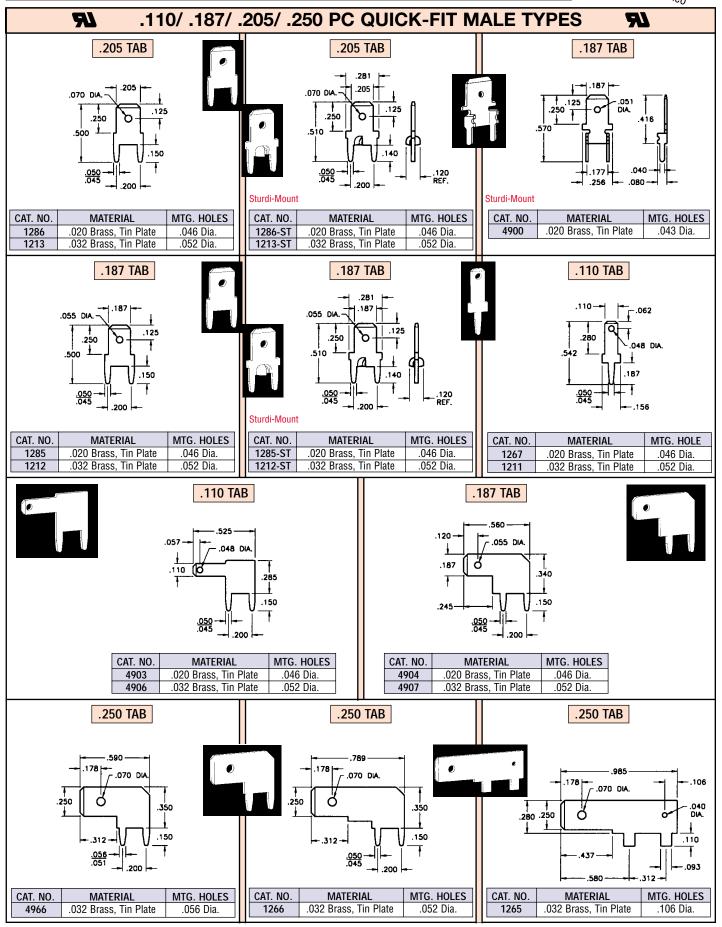




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PC QUICK-FIT TERMINALS

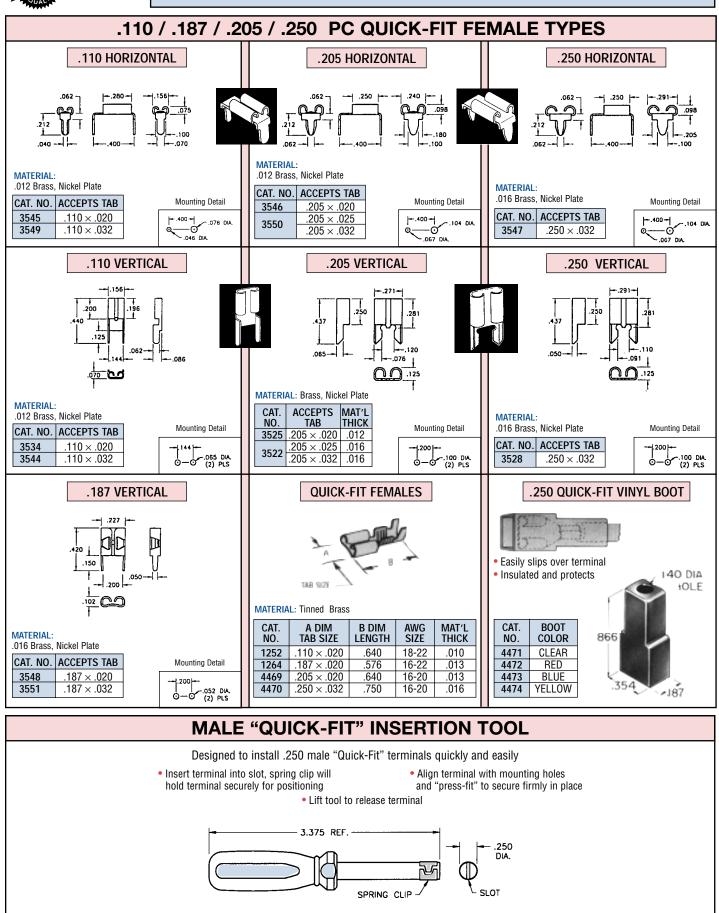




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KEYSTONE

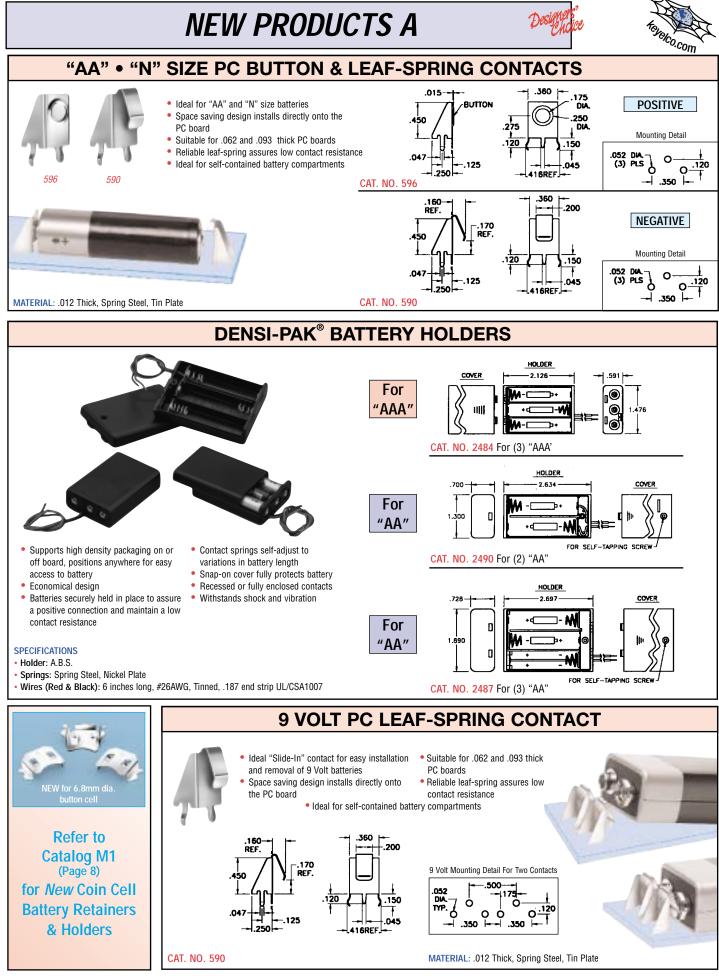
PC QUICK-FIT TERMINALS



CAT. NO. 1288



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<u>Keystone</u>

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