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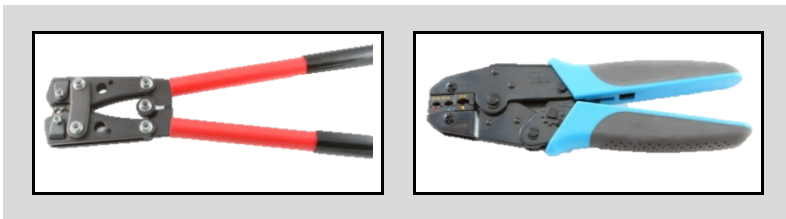


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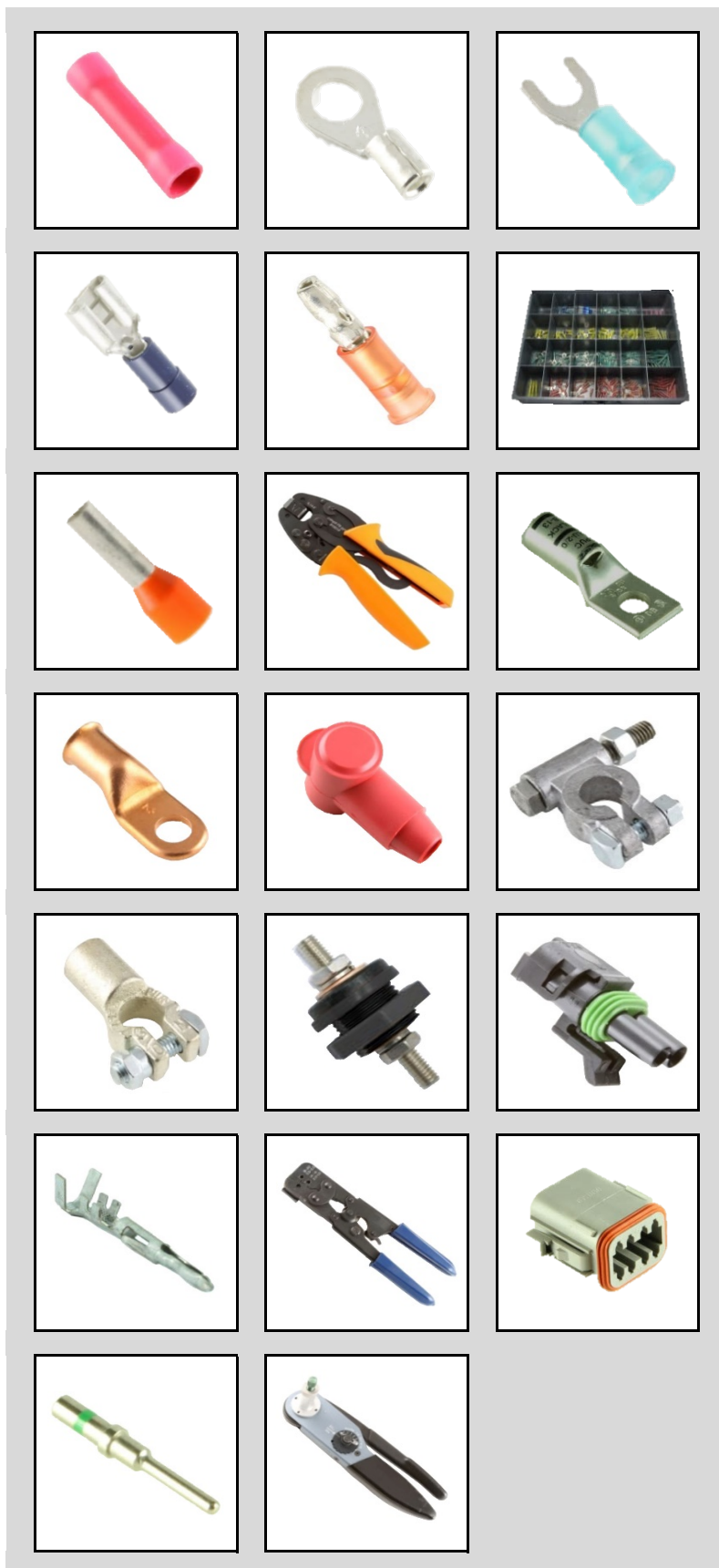
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Butt Splice Terminals

Butt Splice Terminals

Connects two wires together. Insert wires on each end until they reach the built-in wire stop in the center. Two crimps are required, one for each wire. **Compact** splices, also known as parallel splices, are 25-50% shorter than standard butt splices. Wires lie side by side within the terminal to save space and installation time. The **vinyl** insulation prevents incidental metal to metal contact that can cause shorts. The **nylon** insulation provides greater durability. It also allows you to see the wires in the splice to ensure a proper crimp. The **heavy duty** butt splices have extra thick walls for the most demanding applications. They are also extra long so you can double crimp for a better electrical connection.

Non-Insulated



Wire Size (AWG)	Standard		Compact		Heavy-Duty	
	Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.
26-22	11A20023	100	11A20024	100	-----	----
22-18	11A20001	100	11A20002	100	-----	----
16-14	11A20003	100	11A20004	100	-----	----
12-10	11A20005	100	11A20006	50	-----	----
8	11A20007	25	11A20008	25	11A20025	10
6	11A20009	10	11A20011	10	11A20026	5



Wire Size (AWG)	Standard		Compact		Heavy-Duty	
	Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.
4	11A20012	10	11A20013	10	11A20027	5
2	11A20014	10	11A20015	10	11A20028	1
1/0	11A20016	10	11A20017	10	11A20029	1
2/0	11A20018	5	11A20019	10	11A20030	1
3/0	11A20020	5	-----	----	11A20031	1
4/0	11A20021	5	11A20022	5	11A20032	1

Vinyl Insulated



Wire Size (AWG)	Color	Standard		Compact	
		Pkg.	Qty.	Pkg.	Qty.
22-18	Red	11A21001	100	11A21002	100
16-14	Blue	11A21003	100	11A21004	50
12-10	Yellow	11A21005	100	11A21006	50
8	Red	11A21007	25	-----	----



Wire Size (AWG)	Color	Standard		Compact	
		Pkg.	Qty.	Pkg.	Qty.
6	Blue	11A21008	10	-----	----
4	Yellow	11A21009	10	-----	----
2	Red	11A21010	10	-----	----

Nylon Insulated



Wire Size (AWG)	Color	Standard		Compact		Heavy Duty		Window Splices		Grease Filled	
		Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.
26-24	Yellow	11A22001	50	-----	----	-----	----	-----	----	-----	----
22-18	Red	11A22002	100	11A22005	50	11A22003	25	11A22004	25	11A41001	10
16-14	Blue	11A22006	100	11A22009	50	11A22007	25	11A22008	25	11A41002	25
12-10	Yellow	11A22010	50	11A22013	50	11A22011	10	11A22012	10	11A41003	10

Step-Down Butt Splice Terminals

Use step-down terminals to connect two different wire sizes and to connect two wires to one wire. The **vinyl** insulation prevents incidental metal to metal contact that can cause shorts. **Heat-shrink** butt splices are for use in harsh the environments. A **heavy duty** heat-shrink jacket makes it difficult to cut into these heat-shrink terminals during the crimping process.



Wire Size Range (AWG)	Non-Insulated		Color	Vinyl		Heat-Shrink		Heavy Duty Heat-Shrink	
	Pkg.	Qty.		Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.
26-24 to 22-18	46A01171	50	Red	-----	----	46A01174	50	-----	----
22-18 to 16-14	11A42007	25	Blue	11A42002	10	11A28007	10	11A48036	10
22-18 to 12-10	46A01485	10	Blue	46A01516	10	-----	----	-----	----
16-14 to 12-10	11A42009	10	Yellow	11A42003	25	11A28010	10	11A48067	10
16-14 to 8	46A01546	10	Red	46A01575	1	-----	----	-----	----
12-10 to 8	11A42006	10	Red	11A42004	10	11A28012	5	11A48091	10
8 to 6	11A42008	10	Blue	11A42005	10	-----	----	-----	----

Heat Shrink Butt Splice Terminals & 3-4 Way Terminals

Heat-Shrink Butt Splice Terminals

For use in harsh environments. These terminals feature a heat-shrink connection that also has an internal sealant. After crimping the terminal onto the wire, simply apply heat.

The **heavy duty** heat-shrink jacket makes it difficult to cut into these heat-shrink terminals during the crimping process, a common problem with basic heat-shrink terminals.

Use the **grease filled** terminals for sensitive environments where heat tools are restricted.

The **cool seal** terminal's gel is activated when the wire is inserted for a heat shrink like result, but requiring no heat. Simply strip, insert and crimp.

Solder splices have a transparent sleeve for simple installation and inspection. They have an open barrel with flux solder and an adhesive lined heat-shrink sleeve.

The **solder and crimp** butt splices are the most secure connection available. Requires one crimp on each end plus heat.



Wire (AWG)	Color	Standard		Heavy Duty		Economy		Cool Seal		Solder		Solder and Crimp	
		Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.
26-24	Yellow	11A28001	25	11A28018	25	-----	----	-----	----	11A39001	25	-----	----
22-18	Red	11A28002	25	11A28003	25	11A28017	25	66C10349	10	11A39002	10	11A40001	10
16-14	Blue	11A28004	25	11A28006	25	11A28005	25	66C10465	10	11A39003	10	11A40002	10
12-10	Yellow	11A28008	25	11A28009	25	-----	----	66C10517	10	11A39004	10	11A40003	10
8	Red	11A28011	10	11A48090	5	-----	----	-----	----	-----	----	-----	----

High Temperature Butt Splice Terminals

Steel construction and nickel plating provide reliable electrical connections at temperatures up to 900°F. Connects two wires together. Insert wires on each end until they reach the built-in wire stop in the center. Two crimps are required, one for each wire.

Wire Size (AWG)	Pkg.	Qty.
22-18	11A34001	100
16-14	11A34002	100
12-10	11A34003	50



3-Way & 4-Way Terminals

Securely connects multiple wires with one terminal. Constructed of three or four ring terminals riveted together through the stud holes.

The **vinyl** insulation prevents incidental metal to metal contact that can cause shorts. Requires one crimp per wire.

The **nylon** insulation provides relief from vibration that can cause the wire to fail prematurely. The nylon insulation also prevents incidental metal to metal contact that can cause shorts. Requires two crimps (terminal to wire strands, terminal to insulation of wire).

Use **heat-shrink** in harsh environments, these terminals feature a heat-shrink connection that also has an internal sealant. After crimping the terminal onto the wire, simply apply heat. Keeps moisture out while ensuring your wire does not pull out of the terminal.

A **heavy duty** heat-shrink jacket makes it very difficult to cut into these heat-shrink terminals during the crimping process, a common problem with basic heat-shrink terminals. If, in a rare instance, you do pierce the jacket, during the heat-shrink process the jacket will heal itself and fill in the hole with sealant. This is the highest quality line of heat-shrink terminals available.

3-Way Terminals



Wire Size (AWG)	Non-Insulated		Color	Vinyl Insulated		Nylon Insulated		Heat-Shrink		Heavy Duty Heat-Shrink	
	Pkg.	Qty.		Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.
22-18	46A01191	10	Red	11A25001	25	11A25002	25	11A29001	5	11A48030	10
16-14	11A25003	10	Blue	11A25004	25	11A25005	10	11A29003	5	11A48063	10
12-10	11A25008	10	Yellow	11A25006	25	11A25007	10	11A29005	5	11A48089	10

4-Way Terminals



Wire Size (AWG)	Non-Insulated		Color	Vinyl Insulated		Nylon Insulated		Heat-Shrink		Heavy Duty Heat-Shrink	
	Pkg.	Qty.		Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.	Pkg.	Qty.
22-18	46A01308	25	Red	11A24001	10	11A24002	10	66C10447	25	-----	----
16-14	46A01454	25	Blue	11A24003	10	11A24004	10	11A29002	5	11A48062	10
12-10	46A01369	25	Yellow	11A24005	10	11A24006	10	11A29004	5	11A48088	1

Ring Terminals

Ring Terminals



The **non-insulated** terminals require only one crimp onto the wire.

The **vinyl** insulation prevents incidental metal to metal contact that can cause shorts. Requires only one crimp onto the wire.

The **nylon** insulation provides relief from vibration that can cause the wire to fail prematurely. The nylon insulation also prevents incidental metal to metal contact that can cause shorts. Requires two crimps (terminal to wire strands, terminal to insulation of wire). Standard tools perform both crimps. For heavier usage, use a tool that performs both crimps at the same time.

The **Mil-Spec** are rugged enough for the military, these terminals get the job done. Meets MIL-Spec MS/AS-25036.

Stud Size	Type	Non-Insulated		Vinyl Insulated			Nylon Insulated		
		Pkg.	Qty.	Color	Pkg.	Qty.	Color	Pkg.	Qty.
26-24 Ga.									
#2	Standard	11A11001	100	Yellow	11A63417	100	Yellow	11A13001	25
#4	Standard	11A11003	100	Yellow	46A01150	100	Yellow	11A13002	25
#6	Standard	11A11004	100	Yellow	46A01172	100	Yellow	11A13003	25
#8	Standard	46A01037	100	Yellow	46A01271	100	Yellow	11A13051	25
#10	Standard	46A01080	100	Yellow	46A01270	100	Yellow	11A13052	25
22-18 Ga.									
#2	Standard	11A11005	100	Red	11A63424	100	Red	11A13004	50
#4	Standard	11A11006	100	Red	11A12001	100	Red	11A13005	50
#6	Standard	11A11007	100	Red	11A12002	100	Red	11A13007	50
#6	Narrow-Profile	11A11008	100	Red	11A12003	100	Red	11A13006	50
#6	Short-Overall Length	11A11009	100	Red	46A00505	100	-----	-----	----
#8	Standard	11A11010	100	Red	11A12004	100	Red	11A13009	50
#8	Narrow-Profile	11A11011	100	-----	-----	----	Red	11A16054	50
#8	Star-Ring	-----	----	Red	46A00941	100	-----	-----	----
#10	Standard	11A11012	100	Red	11A12005	100	Red	11A13010	50
#10	Narrow-Profile	46A00496	100	Red	46A00511	100	-----	-----	----
#10	Short-Overall Length	11A11013	100	-----	-----	----	Red	11A13011	50
#10	Star-Ring	-----	----	Red	46A00942	100	-----	-----	----
1/4"	Narrow-Profile	11A11014	50	Red	11A12006	100	Red	11A13012	50
5/16"	Standard	11A11016	100	Red	11A12008	100	Red	11A16055	50
3/8"	Standard	11A11015	100	Red	11A12007	100	Red	11A13013	50
16-14 Ga.									
#4	Standard	11A11017	100	Blue	11A12009	100	Blue	11A13015	50
#6	Standard	46A00880	100	Blue	11A12010	100	Blue	11A13016	50
#6	Narrow-Profile	11A11020	100	Blue	11A12011	100	Blue	11A13018	50
#6	Mil-Spec	-----	----	-----	-----	----	Blue	11A13019	25
#6	Short-Overall Length	11A11021	25	Blue	11A63440	100	-----	-----	----
#8	Standard	11A11022	100	Blue	11A12013	100	Blue	11A13020	50
#8	Narrow-Profile	11A11024	100	Blue	11A63448	100	Blue	11A13021	50
#8	Short-Overall Length	11A11025	100	-----	-----	----	-----	-----	----
#8	Star-Ring	-----	----	Blue	46A00940	100	-----	-----	----
#10	Standard	11A11026	100	Blue	11A12014	100	Blue	11A16056	50
#10	Mil-Spec	-----	----	-----	-----	----	Blue	11A13024	25
#10	Star-Ring	11A11113	100	Blue	46A00991	100	-----	-----	----
#6, #8, #10	Multi-Stud	46A00543	100	Blue	11A12040	100	Blue	11A13048	50
1/4"	Narrow-Profile	11A11030	100	Blue	11A12015	100	Blue	11A13026	50
1/4"	Mil-Spec	-----	----	-----	-----	----	Blue	11A13028	10
5/16"	Standard	11A11034	50	Blue	11A12017	100	Blue	11A13031	50
5/16"	Narrow-Profile	-----	----	-----	-----	----	Blue	11A13033	50
3/8"	Standard	11A11032	50	Blue	11A12016	100	Blue	11A13029	50
1/2"	Standard	46A00329	50	Blue	46A01067	100	Blue	11A13050	25
12-10 Ga.									
#4	Standard	11A11037	50	Yellow	11A54188	50	Yellow	11A54161	15
#6	Standard	11A16051	50	-----	-----	----	-----	-----	----
#6	Narrow-Profile	11A16052	50	Yellow	11A16053	50	Yellow	11A13034	50
#8	Standard	11A11040	50	-----	-----	----	-----	-----	----
#8	Narrow-Profile	11A11041	50	Yellow	11A12019	50	Yellow	11A13035	50
#10	Standard	11A11042	100	Yellow	11A12020	50	Yellow	11A13036	50
#10	Mil-Spec	-----	----	-----	-----	----	Yellow	11A13037	10
#6, #8, #10	Multi-Stud	46A00605	100	Yellow	46A00629	50	Yellow	11A13049	50
1/4"	Narrow-Profile	11A11044	100	Yellow	11A12022	50	Yellow	11A13040	50
5/16"	Standard	11A11046	100	Yellow	11A12024	50	Yellow	11A16057	50
5/16"	Mil-Spec	-----	----	-----	-----	----	Yellow	11A13044	10
3/8"	Standard	11A11045	100	Yellow	11A12023	50	Yellow	11A13041	50
3/8"	Mil-Spec	-----	----	-----	-----	----	Yellow	11A13042	10

(Continued on following page)

Ring Terminals

Ring Terminals (Continued from previous page)

Stud Size	Type	Non-Insulated		Vinyl Insulated			Nylon Insulated		
			Pkg. Qty.	Color		Pkg. Qty.	Color		Pkg. Qty.
12-10 Ga. (Cont.)									
7/16"	Standard	-----	----	-----	-----	----	Yellow	11A13045	50
1/2"	Standard	11A11043	10	Yellow	11A12021	50	Yellow	11A13038	50
1/2"	Mil-Spec	-----	----	-----	-----	----	Yellow	11A13039	10
5/8"	Standard	11A11036	5	-----	-----	----	-----	-----	----
8 Ga.									
#8	Standard	11A11047	25	Red	11A12025	25	Red	46A00689	25
#10	Narrow-Profile	11A11048	25	Red	11A12026	25	Red	46A00688	25
1/4"	Narrow-Profile	11A11050	25	Red	46A01123	25	Red	11A12028	25
5/16"	Standard	11A11053	25	Red	46A01364	25	Red	11A12030	25
5/16"	Nylon Mil-Spec	-----	----	-----	-----	----	Red	11A13046	10
3/8"	Standard	11A11051	25	Red	11A12029	25	Red	46A00698	25
3/8"	Long Length	11A11052	25	-----	-----	----	-----	-----	----
1/2"	Standard	11A11049	25	Red	11A12027	25	Red	46A00697	25
9/16"	Standard	11A11124	10	-----	-----	----	-----	-----	----
5/8"	Standard	11A11123	10	-----	-----	----	-----	-----	----
3/4"	Standard	11A11125	10	-----	-----	----	-----	-----	----
6 Ga.									
#10	Narrow-Profile	11A11054	10	Blue	46A00704	25	Blue	11A12031	10
1/4"	Narrow-Profile	11A11056	10	Blue	46A00705	25	Blue	11A12033	10
5/16"	Standard	11A11058	10	Blue	11A12035	10	Blue	46A00717	10
3/8"	Standard	11A11057	10	Blue	11A12034	10	Blue	46A00716	10
7/16"	Standard	11A11126	10	-----	-----	----	-----	-----	----
1/2"	Standard	11A11055	10	Blue	11A12032	10	Blue	46A00736	10
9/16"	Standard	11A11128	10	-----	-----	----	-----	-----	----
5/8"	Standard	11A11127	10	-----	-----	----	-----	-----	----
3/4"	Standard	11A11129	10	-----	-----	----	-----	-----	----
4 Ga.									
#10	Standard	11A11059	10	Yellow	46A01449	10	Yellow	46A00728	10
1/4"	Standard	11A11061	10	-----	-----	----	Yellow	46A00726	10
1/4"	Narrow-Profile	11A11062	10	Yellow	11A12037	10	Yellow	46A00727	10
5/16"	Standard	11A11065	10	-----	-----	----	Yellow	11A12039	10
3/8"	Standard	11A11063	10	-----	-----	----	Yellow	11A12041	10
1/2"	Standard	11A11060	10	Yellow	11A12036	10	Yellow	46A00731	10
9/16"	Standard	11A11132	10	-----	-----	----	-----	-----	----
5/8"	Standard	11A11131	10	-----	-----	----	-----	-----	----
3/4"	Standard	11A11134	10	-----	-----	----	-----	-----	----
2 Ga.									
#10	Standard	11A11067	10	-----	-----	----	-----	-----	----
1/4"	Standard	11A11069	10	-----	-----	----	Red	46A00733	10
5/16"	Standard	11A11074	10	-----	-----	----	Red	46A00735	10
3/8"	Standard	11A11072	10	-----	-----	----	Red	46A00734	10
7/16"	Standard	11A11135	5	-----	-----	----	-----	-----	----
1/2"	Standard	11A11068	10	-----	-----	----	Red	46A00739	10
9/16"	Standard	11A11137	5	-----	-----	----	-----	-----	----
5/8"	Standard	11A11136	5	-----	-----	----	-----	-----	----
3/4"	Standard	11A11071	10	-----	-----	----	-----	-----	----
1/0 Ga.									
1/4"	Standard	11A11077	10	-----	-----	----	Yellow	11A13047	10
5/16"	Standard	11A11081	10	-----	-----	----	-----	-----	----
3/8"	Standard	11A11079	10	-----	-----	----	-----	-----	----
7/16"	Standard	11A11139	5	-----	-----	----	-----	-----	----
1/2"	Standard	11A11076	10	-----	-----	----	-----	-----	----
9/16"	Standard	11A11141	5	-----	-----	----	-----	-----	----
5/8"	Standard	11A11140	5	-----	-----	----	-----	-----	----
3/4"	Standard	11A11142	5	-----	-----	----	-----	-----	----
2/0 Ga.									
1/4"	Standard	11A11085	5	-----	-----	----	-----	-----	----
5/16"	Standard	11A11088	5	-----	-----	----	-----	-----	----
3/8"	Standard	11A11086	5	-----	-----	----	-----	-----	----
7/16"	Standard	11A11143	5	-----	-----	----	-----	-----	----
1/2"	Standard	11A11083	5	-----	-----	----	-----	-----	----
9/16"	Standard	11A11145	5	-----	-----	----	-----	-----	----
5/8"	Standard	11A11143	5	-----	-----	----	-----	-----	----
3/4"	Standard	11A11146	5	-----	-----	----	-----	-----	----

(Continued on following page)

Ring Terminals

Ring Terminals (Continued from previous page)

Stud Size	Type	Non-Insulated		Vinyl Insulated			Nylon Insulated		
			Pkg. Qty.	Color		Pkg. Qty.	Color		Pkg. Qty.
3/0 Ga.									
5/16"	Standard	11A11094	5	-----	-----	----	-----	-----	----
3/8"	Standard	11A11092	5	-----	-----	----	-----	-----	----
7/16"	Standard	11A11147	1	-----	-----	----	-----	-----	----
1/2"	Standard	11A11090	5	-----	-----	----	-----	-----	----
9/16"	Standard	11A11149	1	-----	-----	----	-----	-----	----
5/8"	Standard	11A11148	1	-----	-----	----	-----	-----	----
3/4"	Standard	11A11150	1	-----	-----	----	-----	-----	----
4/0 Ga.									
5/16"	Standard	11A11101	5	-----	-----	----	-----	-----	----
3/8"	Standard	11A11099	5	-----	-----	----	-----	-----	----
1/2"	Standard	11A11096	5	-----	-----	----	-----	-----	----
9/16"	Standard	11A11152	1	-----	-----	----	-----	-----	----
5/8"	Standard	11A11151	1	-----	-----	----	-----	-----	----
3/4"	Standard	11A11098	5	-----	-----	----	-----	-----	----
250 MCM									
5/16"	Standard	11A11106	1	-----	-----	----	-----	-----	----
3/8"	Standard	11A11105	1	-----	-----	----	-----	-----	----
1/2"	Standard	11A11104	1	-----	-----	----	-----	-----	----
5/8"	Standard	11A11107	1	-----	-----	----	-----	-----	----
300 MCM									
3/8"	Standard	11A11109	1	-----	-----	----	-----	-----	----
1/2"	Standard	11A11108	1	-----	-----	----	-----	-----	----
400 MCM									
1/2"	Standard	11A11110	1	-----	-----	----	-----	-----	----
500 MCM									
3/8"	Standard	11A11112	1	-----	-----	----	-----	-----	----
1/2"	Standard	11A11111	1	-----	-----	----	-----	-----	----

Non-Insulated Flag Ring Terminals



Features a 90 degree orientation making the crimp more convenient and allows the ring terminal to be used in confined spaces. Requires only one crimp onto the wire.

Stud Size (AWG)	Pkg. Qty.	Stud Size (AWG)	Pkg. Qty.	Stud Size (AWG)	Pkg. Qty.			
22-18 Ga.		4 Ga.		2/0 Ga.				
#6	11A11121	100	1/4"	11A11118	5			
16-14 Ga.		5/16"	11A11066	5	3/8"	11A11087	1	
#6	11A11018	100	3/8"	11A11064	5	1/2"	11A11084	1
#8	11A11023	50	2 Ga.		3/0 Ga.			
#10	11A11027	50	1/4"	11A11070	5	5/16"	11A11095	1
12-10 Ga.		5/16"	11A11075	5	3/8"	11A11093	1	
#10	11A11119	25	3/8"	11A11073	5	1/2"	11A11091	1
8 Ga.		1/0 Ga.		4/0 Ga.				
1/4"	11A11116	10	1/4"	11A11078	1	5/16"	11A11102	1
5/16"	11A11114	10	5/16"	11A11082	1	3/8"	11A11100	1
3/8"	11A11115	10	3/8"	11A11080	1	1/2"	11A11097	1
6 Ga.		1/2"	66C11000	1				
#10	11A11117	10						
5/16"	11A11120	10						

Heavy Duty Ring Terminals

Provides durability and a longer life. These ring terminals are made from 0.050" thick copper, rather than the typical 0.032" thick stock.

The **nylon** insulation provides relief from vibration that can cause the wire to fail prematurely. The nylon insulation also prevents incidental metal to metal contact that can cause shorts. Requires two crimps (terminal to wire strands, terminal to insulation of wire). Standard tools perform both crimps. For heavier usage, use a tool that performs both crimps at the same time.



Non-Insulated



Nylon Insulated

Stud Size	Non-Insulated		Nylon Insulated		
		Pkg. Qty.	Color	Pkg. Qty.	
16-12 Ga.					
#6	11A11019	25	Yellow	11A13017	50
#10	11A11028	25	Yellow	11A13023	25
1/4"	11A11031	25	Yellow	11A13027	25
5/16"	11A11035	25	Yellow	11A13032	25
3/8"	11A11033	25	Yellow	11A13030	25
1/2"	11A11029	25	Yellow	11A13025	10

Ring Terminals

Heat-Shrink Ring Terminals

For use in harsh environments, these terminals feature a heat-shrink connection that also has an internal sealant. After crimping the terminal onto the wire, simply apply heat. Keeps moisture out while ensuring your wire does not pull out of the terminal.

A **heavy duty** heat-shrink jacket makes it difficult to cut into these heat-shrink terminals during the crimping process. If, in a rare instance, you do pierce the jacket, during the heat-shrink process, the jacket will heal itself and fill in the hole with sealant. These are the highest quality heat-shrink terminals available.

The **solder** heat-shrink terminals feature a heat-shrink connection that also has a solder connection. By simply applying heat, you'll melt a small amount of solder that makes a perfect connection - no crimps required. Also keeps moisture out while ensuring your wire does not pull out of the terminal.



Stud Size	Type	Color	Standard		Heavy Duty		Solder	
				Pkg. Qty.		Pkg. Qty.		Pkg. Qty.
26-24 Ga.								
#6	Standard	Yellow	11A28013	25	-----	----	-----	----
#8	Standard	Yellow	11A28014	25	-----	----	-----	----
#10	Standard	Yellow	11A28015	25	-----	----	-----	----
1/4"	Standard	Yellow	11A28016	25	-----	----	-----	----
22-18 Ga.								
#4	Standard	Red	46A01209	50	-----	----	-----	----
#6	Standard	Red	11A26001	25	11A48021	10	11A36001	10
#8	Standard	Red	11A26002	25	11A48022	10	11A36002	10
#10	Standard	Red	11A26003	25	11A48017	10	11A36003	10
#6, #8, #10	Multi-Stud	Red	46A00656	25	11A48027	10	-----	----
1/4"	Standard	Red	11A26004	25	11A48018	10	11A36004	10
5/16"	Standard	Red	11A26005	25	11A48019	10	-----	----
3/8"	Standard	Red	11A26006	25	11A48020	10	-----	----
16-14 Ga.								
#4	Standard	Blue	46A01211	50	46A01649	10	-----	----
#6	Standard	Blue	11A26013	25	11A48053	10	-----	----
#8	Standard	Blue	11A26007	25	11A48054	10	11A36013	10
#10	Standard	Blue	11A26008	25	11A48047	10	11A36005	10
#6, #8, #10	Multi-Stud	Blue	46A00657	25	11A48060	10	-----	----
1/4"	Standard	Blue	11A26010	25	11A48050	10	11A36006	10
5/16"	Standard	Blue	11A26011	25	11A48051	10	-----	----
3/8"	Standard	Blue	11A26012	25	11A48052	10	11A36007	10
1/2"	Standard	Blue	11A26009	25	11A48049	10	-----	----
12-10 Ga.								
#6	Standard	Yellow	11A26014	25	11A48081	10	-----	----
#8	Standard	Yellow	11A26015	25	11A48082	10	-----	----
#10	Standard	Yellow	11A26016	25	11A48076	10	11A36008	10
#6, #8, #10	Multi-Stud	Yellow	46A00671	25	11A48087	10	-----	----
1/4"	Standard	Yellow	11A26018	25	11A48078	10	11A36010	10
5/16"	Standard	Yellow	11A26019	25	11A48079	10	11A36011	10
3/8"	Standard	Yellow	11A26020	25	11A48080	10	11A36012	10
1/2"	Standard	Yellow	11A26017	10	11A48077	5	11A36009	10
8 Ga.								
#8	Standard	Red	46A01501	10	46A01650	10	-----	----
#10	Standard	Red	11A26021	10	11A48092	10	-----	----
1/4"	Standard	Red	11A26023	10	11A48094	10	-----	----
5/16"	Standard	Red	11A26024	10	11A48095	10	-----	----
3/8"	Standard	Red	11A26025	10	11A48096	10	-----	----
1/2"	Standard	Red	11A26022	10	11A48093	5	-----	----

High Temperature Ring Terminals

One piece steel construction and nickel plating provide reliable electrical connections at temperatures up to 900°F. Requires only one crimp onto the wire.



Wire Size (AWG)	Pkg. Qty.	Wire Size (AWG)	Pkg. Qty.	Wire Size (AWG)	Pkg. Qty.	Wire Size (AWG)	Pkg. Qty.				
22-18 Ga.		16-14 Ga.		12-10 Ga. (Cont.)		6 Ga. (Cont.)					
#6	11A32001	50	1/4"	11A32009	50	1/2"	46A00344	25			
#8	11A32002	50	5/16"	11A32011	50	8 Ga.					
#10	11A32003	50	3/8"	11A32010	50	#10	11A32018	25			
1/4"	11A32004	50	12-10 Ga.		1/4"	11A32019	25	5/16"	46A00367	10	
5/16"	11A32005	50	#6	11A32012	50	5/16"	11A32021	25	3/8"	11A32026	5
3/8"	46A00290	100	#8	11A32013	50	3/8"	11A32020	25	2 Ga.		
16-14 Ga.			#10	11A32014	50	6 Ga.			1/4"	46A00368	10
#6	11A32006	50	1/4"	11A32015	25	#10	46A00352	25	5/16"	46A00370	10
#8	11A32007	50	5/16"	11A32017	25	1/4"	11A32022	5	3/8"	46A00369	10
#10	11A32008	50	3/8"	11A32016	25	5/16"	11A32024	5			

Fork Terminals

Fork Terminals

The **non-insulated** terminals require only one crimp onto the wire. The **vinyl** insulation prevents incidental metal to metal contact that can cause shorts. The **nylon** insulation provides relief from vibration that can cause the wire to fail prematurely.



Non-Insulated



Vinyl Insulated



Nylon Insulated

Stud Size	Type	Non-Insulated		Vinyl Insulated			Nylon Insulated		
		Pkg.	Qty.	Color	Pkg.	Qty.	Color	Pkg.	Qty.
26-24 Ga.									
#2	Standard	-----	----	-----	-----	----	Yellow	11A16001	25
#4	Standard	-----	----	-----	-----	----	Yellow	11A16002	25
#6	Standard	-----	----	-----	-----	----	Yellow	11A16003	25
24-20 Ga.									
#4	Standard	11A14001	100	Yellow	46A01203	50	Yellow	46A01424	25
#6	Standard	11A14002	100	Yellow	46A01151	50	Yellow	46A01426	25
#8	Standard	46A01027	100	Yellow	46A01152	50	Yellow	46A01437	25
#10	Standard	46A01026	100	Yellow	46A01204	50	Yellow	46A01451	25
22-18 Ga.									
#4	Standard	11A14003	100	Red	11A15001	100	Red	11A16004	50
#6	Standard	46A00856	100	Red	11A15002	100	Red	11A16005	50
#6	Block	11A14007	100	Red	46A00900	100	Red	11A16064	50
#6	Narrow-Profile Block	11A14008	100	Red	11A15005	100	Red	11A16010	50
#6	Narrow/Short	11A14004	100	-----	-----	----	Red	66C10444	50
#6	Flange Block	11A14011	100	Red	11A15008	100	Red	11A16013	50
#6	Snap Spade	11A14013	100	Red	11A15010	100	Red	11A16016	50
#6	Narrow-Profile Snap Spade	-----	----	-----	-----	----	Red	11A16018	50
#8	Standard	11A14005	100	Red	11A15003	100	Red	11A16062	50
#8	Block	11A14009	100	Red	11A15006	100	Red	11A16011	50
#8	Flange Block	46A00867	200	Red	46A00909	100	Red	11A16014	50
#8	Snap Spade	46A00285	100	Red	11A16060	100	Red	11A16065	50
#10	Standard	11A14006	100	Red	11A15004	100	Red	11A16063	50
#10	Block	11A14010	100	Red	11A15007	100	Red	11A16012	50
#10	Flange Block	11A14012	100	Red	11A15009	100	Red	11A16015	50
#10	Snap Spade	46A00281	100	Red	11A15012	100	Red	11A16066	50
1/4"	Standard	46A00307	100	Red	46A00917	100	Red	11A16008	50
16-14 Ga.									
#4	Standard	11A14015	100	Blue	11A15013	100	Blue	11A16021	50
#6	Flag	11A14016	100	-----	-----	----	-----	-----	----
#6	Block	11A14022	100	Blue	46A00963	100	Blue	11A16026	50
#6	Narrow-Profile Block	11A14023	100	Blue	11A15017	100	Blue	11A16067	50
#6	Narrow/Short	11A63132	125	Blue	11A16050	50	Blue	11A16024	50
#6	Narrow-Profile Long Block	11A14040	100	-----	-----	----	Blue	11A16028	50
#6	Long Block	-----	----	Blue	11A15016	100	-----	-----	----
#6	Flange Block	11A14026	100	Blue	11A15020	100	Blue	11A16031	25
#6	Snap Spade	11A14030	100	Blue	11A15022	100	Blue	11A16034	50
#6	Narrow-Profile Snap Spade	11A14040	100	Blue	11A63535	100	-----	-----	----
#8	Standard	11A14017	100	Blue	11A15014	100	Blue	11A16022	50
#8	Flag	11A14018	50	-----	-----	----	-----	-----	----
#8	Block	11A16058	100	Blue	11A15018	100	Blue	11A16029	50
#8	Flange Block	11A14027	100	Blue	46A01031	100	Blue	11A16032	50
#8	Snap Spade	46A00285	100	Blue	11A15023	100	Blue	11A16035	50
#10	Standard	11A14019	100	Blue	11A15015	100	Blue	11A16023	50
#10	Flag	11A14020	50	-----	-----	----	-----	-----	----
#10	Block	11A16059	100	Blue	11A15019	100	Blue	11A16030	50
#10	Flange Block	11A14028	100	Blue	11A15021	50	Blue	11A16033	50
#10	Snap Spade	11A14031	100	Blue	11A15024	100	Blue	11A16036	50
1/4"	Standard	11A14021	50	Blue	46A00320	100	Blue	11A16025	25
5/16"	Standard	11A14041	50	Blue	11A63504	60	-----	-----	----
12-10 Ga.									
#6	Standard	11A14032	100	Yellow	11A15025	100	Yellow	11A16037	50
#6	Block	46A01013	100	Yellow	11A15028	50	Yellow	11A16041	50
#6	Flange Block	11A14038	50	Yellow	11A15030	50	Yellow	11A16044	25
#6	Snap Spade	46A01017	100	Yellow	11A15032	50	Yellow	11A16047	50
#8	Standard	11A14033	100	Yellow	11A15026	100	Yellow	11A16038	50
#8	Block	11A14036	100	Yellow	11A16061	50	Yellow	11A16042	50
#8	Flange Block	46A00986	100	Yellow	46A01058	50	Yellow	11A16045	50

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Fork Terminals

Fork Terminals (Continued from previous page)		Non-Insulated		Vinyl Insulated			Nylon Insulated		
Stud Size	Type		Pkg. Qty.	Color		Pkg. Qty.	Color		Pkg. Qty.
12-10 Ga. (Cont.)									
#8	Snap Spade	46A01018	100	Yellow	11A15033	50	Yellow	11A16048	50
#10	Standard	11A14034	100	Yellow	11A15027	50	Yellow	11A16068	50
#10	Block	11A14037	100	Yellow	46A01038	100	Yellow	11A16069	50
#10	Flange Block	11A14039	50	Yellow	11A15031	50	Yellow	11A16046	50
#10	Snap Spade	46A01014	100	Yellow	11A15034	50	Yellow	11A16049	50
1/4"	Standard	11A14035	50	Yellow	46A01112	50	Yellow	11A16040	25
8 Ga.									
#10	Standard	46A01363	25	Red	46A01401	25	Red	46A00710	25
1/4"	Standard	46A01651	25	Red	46A01652	25	Red	46A01653	25
6 Ga.									
1/4"	Standard	46A01513	10	-----	-----	----	Blue	46A00737	1

Heat-Shrink Fork Terminals

For use in harsh environments, these terminals feature a heat-shrink connection that also has an internal sealant. After crimping the terminal onto the wire, simply apply heat. Keeps moisture out while ensuring your wire does not pull out of the terminal.

The **standard** heat-shrink terminal requires one crimp plus heat.

A **heavy duty** heat-shrink jacket makes it difficult to cut into these heat-shrink terminals during the crimping process, a common problem with basic heat-shrink terminals. If, in a rare instance, you do pierce the jacket, during the heat-shrink process, the jacket will heal itself and fill in the hole with sealant. This is the highest quality line of heat of heat-shrink terminals available. Requires one crimp plus heat.

The **solder** heat-shrink terminal features a heat-shrink connection that also has an internal sealant. By simply applying heat, you'll melt a small amount of solder that makes a perfect connection - no crimps required. Also keeps moisture out while ensuring your wire does not pull out of the terminal.



Standard



Heavy Duty Snap Spade

Stud Size	Type	Color	Standard		Heavy Duty		Solder	
			Pkg. Qty.		Pkg. Qty.		Pkg. Qty.	
22-18 Ga.								
#4	Standard	Red	46A01214	50	46A01654	25	-----	----
#6	Standard	Red	11A27001	25	11A48008	10	-----	----
#6	Snap Spade	Red	46A01225	50	11A48025	25	-----	----
#8	Standard	Red	11A27002	25	11A48009	10	-----	----
#8	Snap Spade	Red	46A01237	50	11A48026	25	-----	----
#10	Standard	Red	11A27003	25	11A48007	10	11A37001	10
#10	Snap Spade	Red	46A01227	50	11A48024	25	-----	----
1/4"	Standard	Red	46A01233	50	46A01655	25	-----	----
16-14 Ga.								
#6	Standard	Blue	11A27004	25	11A48038	10	-----	----
#6	Snap Spade	Blue	46A01279	25	11A48058	25	-----	----
#8	Standard	Blue	11A27005	25	11A48039	10	-----	----
#8	Snap Spade	Blue	46A01278	25	11A48059	25	-----	----
#10	Standard	Blue	11A27006	25	11A48037	10	11A37002	10
#10	Snap Spade	Blue	11A27010	25	11A48057	10	-----	----
1/4"	Standard	Blue	46A01341	25	46A01656	25	-----	----
12-10 Ga.								
#6	Standard	Yellow	11A27007	25	11A48069	10	-----	----
#6	Snap Spade	Yellow	46A01384	25	11A48085	10	-----	----
#8	Standard	Yellow	11A27008	25	11A48070	10	-----	----
#8	Snap Spade	Yellow	46A01385	25	11A48086	10	-----	----
#10	Standard	Yellow	11A27009	25	11A48068	10	11A37003	10
#10	Block, Flange	Yellow	46A01411	25	11A48071	10	-----	----
#10	Snap Spade	Yellow	46A01380	25	11A48083	10	-----	----
1/4"	Standard	Yellow	46A01431	25	46A01657	10	-----	----
1/4"	Snap Spade	Yellow	46A01436	25	11A48084	10	-----	----

High Temperature Fork Terminals

One piece steel construction and nickel plating provide reliable electrical connections at temperatures up to 900°F. Requires only one crimp onto the wire.



Stud Size	Pkg. Qty.	Stud Size	Pkg. Qty.	Stud Size	Pkg. Qty.
22-18 Ga.		16-14 Ga.		12-10 Ga.	
#6	11A33001 50	#6	11A33002 50	#6	11A33005 50
#8	46A00256 200	#8	11A33003 50	#8	11A33006 50
#10	46A00253 200	#10	11A33004 50	#10	11A33007 50
				1/4"	46A00317 100

Hook Terminals & Heat Shrink and Nylon Terminal Kits

Hook Terminals



Non-Insulated

The **vinyl** insulation prevents incidental metal to metal contact that can cause shorts. Requires only one crimp onto the wire.



Vinyl Insulated

The **nylon** insulation provides relief from vibration that can cause the wire to fail prematurely. The nylon insulation also prevents incidental metal to metal contact that can cause shorts. Requires two crimps (terminal to wire strands, terminal to insulation of wire). Standard tools perform both crimps. For heavier usage, use a tool that performs both crimps at the same time.



Heavy Duty Heat-Shrink

Use the **heavy duty** heat-shrink in harsh environments. After crimping the terminal onto the wire, simply apply heat. Keeps moisture out while ensuring your wire does not pull out of the terminal. Requires one crimp plus heat.

Wire Size (AWG)	Stud Size	Non-Insulated			Vinyl Insulated			Nylon Insulated		Heavy Duty Heat-Shrink	
		Pkg. Qty.	Color	Pkg. Qty.	Pkg. Qty.	Pkg. Qty.	Pkg. Qty.				
22-18	#6	46A00935	100	Red	46A00983	100	46A01373	25	-----	----	
22-18	#8	11A17001	100	Red	11A18001	100	11A19001	50	-----	----	
22-18	#10	46A00934	100	Red	46A00982	100	46A01372	25	11A48013	25	
16-14	#6	46A00875	200	Blue	46A00926	100	46A01093	50	-----	----	
16-14	#8	11A17002	100	Blue	11A18002	100	11A19002	50	-----	----	
16-14	#10	11A17003	100	Blue	46A00956	100	46A01126	50	11A48043	25	
12-10	#6	46A00878	200	Yellow	46A00969	100	46A01166	50	-----	----	
12-10	#8	11A17004	50	Yellow	11A16070	50	11A19003	25	-----	----	
12-10	#10	46A00877	200	Yellow	46A00968	100	46A01660	25	-----	----	

Heat-Shrink Terminal Kit

Great for maintenance applications, this kit contains 23 different heat-shrink terminals, 300 pieces, sizes 22 to 8 gauge, including rings, butt splices, and quick-disconnect terminals. Comes in a large metal box, 18"w x 12"d x 3"h.



Part #	Kit Contains	Description	Qty.	(Cont.)		Description	Qty.
				Qty.	Qty.		
11A47003	11A28002	22-18 Ga., Butt Splice Terminals	25	11A30007	16-14 Ga., 0.250" W., Female Quick Disc.	10	
	11A26001	22-18 Ga., #6 Ring Terminals	20	11A30006	16-14 Ga., 0.250" W., Male Fully Insulated	10	
	11A26003	22-18 Ga., #10 Ring Terminals	20	11A30005	16-14 Ga., 0.250" W., Female Fully Insulated	10	
	11A30001	22-18 Ga., 0.250" W., Male Quick Disc.	10	11A28008	12-10 Ga., Butt Splice Terminals	15	
	11A30002	22-18 Ga., 0.250" W., Female Quick Disc.	10	11A28010	16-14 To 12-10 Ga., Step-Down Butt Splices	5	
	11A28004	16-14 Ga., Butt Splice Terminals	25	11A26016	12-10 Ga., #10 Ring Terminals	15	
	11A26013	16-14 Ga., #6 Ring Terminals	20	11A26018	12-10 Ga., 1/4" Ring Terminals	10	
	11A26008	16-14 Ga., #10 Ring Terminals	20	11A26020	12-10 Ga., 5/16" Ring Terminals	10	
	11A26010	16-14 Ga., 1/4" Ring Terminals	10	11A26019	12-10 Ga., 3/8" Ring Terminals	10	
	11A26012	16-14 Ga., 5/16" Ring Terminals	10	11A26017	12-10 Ga., 1/2" Ring Terminals	10	
	11A26011	16-14 Ga., 3/8" Ring Terminals	10	11A28011	8 Ga., Butt Splice Terminals	5	
	11A30008	16-14 Ga., 0.250" W., Male Quick Disc.	10				

Crimping Tool for Heat Shrink Terminals



- Crimps:
- 22-8 gauge heat shrink terminals
 - 22-8 gauge insulated terminals

- Features:
- Release lever
 - Ratcheting tool

Part # 37A13011

Large Nylon-Insulated Terminal Kit

This kit contains 20 different terminals, 370 pieces, sizes 22 to 10 gauge, including rings, forks, quick-disconnects, quick splices, and butt splices. Comes in a large metal box, 18"w x 12"d x 3"h.



Part #	Kit Contains	Description	Qty.	(Cont.)		Description	Qty.
				Qty.	Qty.		
11A47008	11A22002	22-18 Ga., Butt Splice Terminals	20	11A44013	16-14 Ga., 0.156" Dia., Male Bullet Term.	15	
	11A13006	22-18 Ga., #6 Narrow Ring Terminals	20	11A44016	16-14 Ga., 0.156" Dia., Female Bullet Term.	15	
	11A13010	22-18 Ga., #10 Ring Terminals	20	11A22010	12-10 Ga., Butt Splice Terminals	20	
	11A22006	16-14 Ga., Butt Splice Terminals	25	11A13036	12-10 Ga., #10 Ring Terminals	15	
	11A13018	16-14 Ga., #6 Ring Terminals	20	11A13040	12-10 Ga., 1/4" Ring Terminals	15	
	11A13022	16-14 Ga., #10 Ring Terminals	20	11A13041	12-10 Ga., 3/8" Ring Terminals	15	
	11A13026	16-14 Ga., 1/4" Ring Terminals	20	11A43090	12-10 Ga., 0.250" W., Female Quick Disc.	15	
	11A43075	16-14 Ga., 0.250" W., Male Quick Disc.	20	66C11575	18-14 Ga., Quick Splices	15	
	11A43073	16-14 Ga., 0.250" W., Female Quick Disc.	20	12A16002	16-14 Ga., 56 Series Male Unsealed Term.	20	
	11A16023	16-14 Ga., #10 Fork Terminals	20	12A16005	16-14 Ga., 56 Series Female Unsealed Term.	20	

Crimping Tool for Insulated Terminals



- Crimps:
- 22-8 gauge insulated terminals

- Features:
- Release lever
 - Pressure adjustment lever
 - Ratcheting tool

Part # 37A13001

Quick-Disconnect Terminals

Quick-Disconnect Terminals

Also known as slip-on or fast-on connectors, these quick-disconnect terminals offer the fastest way to connect and disconnect two wires. They are also reconnectable. Simply slide the male terminal into the female terminal.

Non-insulated quick-disconnects require only one crimp onto the wire.

The **vinyl** insulation prevents incidental metal to metal contact that can cause shorts. Requires only one crimp onto the wire.

The **nylon** insulation provides relief from vibration that can cause the wire to fail prematurely. Requires two crimps (terminal to wire strands, terminal to insulation of wire). Standard tools perform both crimps. For heavier usage, use a tool that performs both crimps at the same time.

The **fully** insulated terminals provide a "mini-enclosure" for the point at which the two contacts meet, keeping liquids and contaminants away from the electrical connection. Requires only one crimp onto the wire.



Tab Width & Thickness	Non-Insulated			Color	Vinyl Insulated			Nylon Insulated		
	Female	Male	Pkg. Qty.		Female	Male	Pkg. Qty.	Female	Male	Pkg. Qty.
26-24 Ga.										
0.110" x 0.020"	-----	-----	---	Yellow	-----	-----	---	11A43002	-----	50
0.187" x 0.020"	11A43001	-----	100	Yellow	-----	-----	---	11A43003	-----	50
22-18 Ga.										
0.110" x 0.020"	11A43006	11A43007	50	Red	11A43016	11A43017	50	11A43024	11A43026	50
0.110" x 0.032"	-----	-----	---	-----	-----	-----	---	11A43031*	-----	50
0.187" x 0.020"	11A43008	11A43009	50	Red	11A43018	11A43019	50	11A43025	11A43027	50
0.187" x 0.032"	-----	-----	---	Red	-----	-----	---	11A43035*	-----	50
0.205" x 0.020"	11A43005	-----	50	Red	11A43015	-----	50	-----	-----	---
0.250" x 0.032"	11A43012	11A16071	50	Red	11A43020	11A43022	50	11A16072	11A43034	50
0.250" x 0.032"	46A00918*	-----	100	Red	11A43021	46A00925	50	-----	46A00547	100
16-14 Ga.										
0.110" x 0.020"	11A43041	11A43042	50	Blue	11A43054	11A43055	100	11A43061	11A43065	25
0.187" x 0.020"	11A43043	11A43044	50	Blue	11A43056	11A43057	100	11A43063	11A43066	25
0.187" x 0.020"	46A00929*	46A00872	100	Blue	46A00947*	46A00922	---	11A43064*	46A00636	25
0.187" x 0.032"	-----	-----	---	Blue	11A43105	-----	100	-----	-----	---
0.250" x 0.032"	11A43050	11A16073	50	Blue	11A43058	11A43060	100	11A43073	11A43075	25
0.250" x 0.032"	11A43051*	-----	50	Blue	11A43059*	46A00950	100	11A43074*	46A01119	25
0.300" x 0.032"	-----	-----	---	Blue	-----	-----	---	11A43076	-----	25
0.375" x 0.032"	-----	-----	---	Blue	46A01331	-----	25	46A01392	-----	25
14-12 Ga.										
0.250" x 0.032"	-----	-----	---	Yellow	-----	-----	---	11A43089	-----	50
12-10 Ga.										
0.187" x 0.032"	-----	-----	---	Yellow	11A43086	-----	50	46A00637	-----	---
0.250" x 0.032"	11A43081	11A43082	100	Yellow	11A43083	11A43085	50	11A16074	11A43092	50
0.250" x 0.032"	46A00928*	46A00952	100	Yellow	11A43084*	46A01054	50	11A43091*	-----	50
0.340" x 0.047"	-----	-----	---	Yellow	-----	-----	---	11A43088	-----	50
0.375" x 0.032"	46A01336	-----	25	Yellow	46A01193	-----	50	46A01464	-----	50

* Rolled Edge

Fully Nylon Insulated Terminals



Tab Width & Thickness	Color	Double Bump			Pkg. Qty.	Single Bump		Pkg. Qty.	Oval	
		Female	Male	Pkg. Qty.		Female	Male		Pkg. Qty.	Female
26-24 Ga.										
0.110" x 0.020"	Yellow	11A43004	-----	50	-----	-----	---	-----	-----	---
0.187" x 0.020"	Yellow	11A43103	-----	25	-----	-----	---	-----	-----	---
0.250" x 0.032"	Yellow	11A43104	-----	50	-----	-----	---	-----	-----	---
22-18 Ga.										
0.110" x 0.020"	Red	11A43028	-----	50	-----	-----	---	46A01159	-----	50
0.187" x 0.020"	Red	11A43029	11A43030	50	46A01073	46A01196	50	-----	-----	---
0.250" x 0.032"	Red	11A43036	11A43038	50	46A00082	46A00080	50	46A01098	46A01099	50
0.250" x 0.032"	Red	11A43037*	11A43039	50	-----	-----	---	46A01144*	46A01149	50
16-14 Ga.										
0.110" x 0.020"	Blue	11A43062	-----	25	-----	-----	---	-----	-----	---
0.187" x 0.020"	Blue	11A43068	-----	25	46A01075	46A01195	25	-----	-----	---
0.187" x 0.020"	Blue	11A43069	11A43070	25	-----	-----	---	-----	-----	---
0.250" x 0.032"	Blue	11A43077	11A43079	25	46A00079	46A00081	25	46A01096	46A01097	25
0.250" x 0.032"	Blue	11A43078*	-----	25	-----	-----	---	46A01148*	46A01202	25
12-10 Ga.										
0.250" x 0.032"	Yellow	11A43093	11A43095	50	46A00085	-----	50	-----	-----	---
0.250" x 0.032"	Yellow	11A43094*	11A43096	50	46A01290*	-----	50	46A01185*	46A01187	50

* Rolled Edge

Quick-Disconnect Terminals, Tools & Kit

High-Temperature Quick-Disconnect Terminals

Steel construction and nickel plating provide reliable electrical connections at temperatures up to 900°F. Requires only one crimp onto the wire.



Female



Male

Wire Size	Gender		Pkg. Qty.
Standard			
0.187" Tab Width x .020" Tab Thickness			
22-18	Female	46A00305	100
16-14	Female	11A35003	50
0.250" Tab Width x .032" Tab Thickness			
22-18	Female	11A35001	50
22-18	Male	11A35002	50
16-14	Female	11A35004	50

Wire Size	Gender		Pkg. Qty.
Standard (Cont.)			
0.250" Tab Width x .032" Tab Thickness			
16-14	Male	11A35006	50
12-10	Female	11A35007	50
12-10	Male	11A35008	50
90° Flag			
0.250" Tab Width x .032" Tab Thickness			
16-14	Female	11A35005	50

Flag Quick-Disconnect Terminals



Non-Insulated Female

Features a 90 degree orientation making the crimp more convenient and allows the quick-disconnect terminal to be used in confined spaces. The thickness of the 0.187" tab width is 0.020" and the 0.250" tab width is 0.032".

Tab Width	Non-Insulated			Color	Fully Nylon Insulated			Heat -Shrink Fully Insulated		
	Female	Male	Pkg. Qty.		Female	Male	Pkg. Qty.	Female	Male	Pkg. Qty.
22-18 Ga.										
0.187"	11A43010	-----	50	Red	11A43023	-----	50	46A01405	-----	50
0.250"	11A43014	-----	50	Red	11A43040	-----	50	46A01406	-----	50
16-14 Ga.										
0.187"	11A43045	-----	50	Blue	11A43067	-----	25	46A01354	-----	25
0.250"	11A43046	46A00924	50	Blue	11A43071	-----	25	46A01355	-----	25
0.250"	11A43047	-----	25	Blue	11A43072	-----	10	-----	-----	-----
12-10 Ga.										
0.250"	11A43080	-----	50	Yellow	11A43087	-----	50	46A01389	-----	50

Crimping Tools for Flag Terminals

Crimps Non-Insulated Flag Terminals



Crimps:

- 22-10 gauge non-insulated flag terminals
- 26-14 gauge insulated terminals
- 26-6 gauge non-insulated terminals
- 26-10 gauge closed end connectors

Strips:

- 20-8 gauge wire
- Features:
- Heavy-duty multi-purpose 3M tool

Part # 37A12003

Crimps Insulated Quick Connect Flag Terminals



Part # 37A13008

Crimps:

- 22-14 gauge insulated terminals
- Features:
- Pressure adjustment wheel
- Release lever
- Ratcheting tool



Part # 37A13012

Crimps:

- 14-10 gauge insulated terminals
- Features:
- Pressure adjustment wheel
- Release lever
- Ratcheting tool

Crimping Tool for Heat Shrink Terminals



Crimps:

- 22-8 gauge heat shrink terminals
- 22-8 gauge insulated terminals

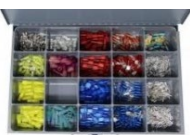
Part # 37A13011

Features:

- Release lever
- Ratcheting tool

Quick Disconnect Terminal Kit

This kit contains 20 different terminals, 600 pieces, sizes 16 to 10 gauge, including bare, nylon, fully insulated, and heat-shrink, quick disconnect terminals. Comes in a small metal box, 13 3/8"w x 9 1/4"d x 2"h.



Part #11A47011

Kit Contains	Gauge	Tab	Description	Qty.	(Cont.)	Gauge	Tab	Description	Qty.
11A43025	22-18 Ga.	0.187"	Female Nylon Insulated	25	11A43073	16-14 Ga.	0.250"	Female Nylon Insulated	50
11A43012	22-18 Ga.	0.187"	Female Non-Insulated	50	11A43079	16-14 Ga.	0.250"	Male Nylon Fully Insulated	25
11A16072	22-18 Ga.	0.250"	Female Nylon Insulated	50	11A43077	16-14 Ga.	0.250"	Female Nylon Fully Insulated	25
11A43038	22-18 Ga.	0.250"	Male Nylon Fully Insulated	25	11A30005	16-14 Ga.	0.250"	Female Shrink Fully Insulated	25
11A43036	22-18 Ga.	0.250"	Female Nylon Fully Insulated	25	11A43081	12-10 Ga.	0.250"	Female Non-Insulated	50
11A30003	22-18 Ga.	0.250"	Female Shrink Fully Insulated	25	11A16074	12-10 Ga.	0.250"	Female Nylon Insulated	25
11A43063	16-14 Ga.	0.187"	Female Nylon Insulated	25	11A43095	12-10 Ga.	0.250"	Male Nylon Fully-Insulated	15
11A16073	16-14 Ga.	0.250"	Male Non-Insulated	50	11A43093	12-10 Ga.	0.250"	Female Nylon Insulated	15
11A43050	16-14 Ga.	0.250"	Female Non-Insulated	50	11A45006	-----	0.250"	Female To Two Male Connector	10
11A43046	16-14 Ga.	0.250"	Female Non-Insulated Flag	25	11A45010	-----	0.250"	Male and Female Connector	10

Quick-Disconnect Terminals

Heat-Shrink Quick-Disconnect Terminals

Also known as slip-on or fast-on connectors, these quick-disconnect terminals offer the fastest way to connect and disconnect two wires. They are also reconnectable. Simply slide the male terminal into the female terminal.

The **standard** heat-shrink terminals are made for use in harsh environments. These terminals feature a heat-shrink connection that also has an internal sealant. After crimping the terminal onto the wire, simply apply heat. Keeps moisture out while ensuring your wire does not pull out of the terminal.

A **heavy duty** heat-shrink jacket makes it very difficult to cut into these heat-shrink terminals during the crimping process, a common problem with basic heat-shrink terminals.

Use the **solder heat-shrink** in harsh environments. These terminals feature a heat-shrink connection that also has an internal sealant. By simply applying heat, you'll also melt a small amount of solder that makes a perfect connection - no crimps required. Also keeps moisture out while ensuring your wire does not pull out of the terminal.

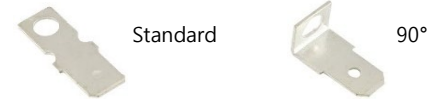
Partially insulated quick disconnect terminals are economical. Use **fully insulated** terminals to keep moisture away from where the male and female terminals mate.



Tab Width and Thickness	Color	Insulation Style	Standard			Heavy Duty			Solder		
			Female	Male	Pkg. Qty.	Female	Male	Pkg. Qty.	Female	Male	Pkg. Qty.
22-18 Ga.											
0.110" x 0.020"	Red	Partially	46A01282	-----	25	-----	-----	---	-----	-----	---
0.187" x 0.020"	Red	Partially	46A01283	46A01293	25	11A48001	11A48002	25	-----	-----	---
0.250" x 0.032"	Red	Partially	11A30002	11A30001	25	11A48003	11A48004	25	46A01526	46A01505	10
0.250" x 0.032"	Red	Fully	11A30003	11A30004	25	66C10450	11A48005	10	46A01539	-----	10
0.250" x 0.032"	Red	Fully	66C10448	-----	10	-----	-----	---	-----	-----	---
16-14 Ga.											
0.110" x 0.020"	Blue	Partially	46A01276	-----	25	-----	-----	---	-----	-----	---
0.187" x 0.020"	Blue	Partially	46A01277	46A01289	25	11A48031	11A48032	25	-----	-----	---
0.250" x 0.032"	Blue	Partially	11A30007	11A30008	25	11A48033	11A48034	10	11A38002	11A38001	10
0.250" x 0.032"	Blue	Fully	11A30005	11A30006	25	11A48097	11A48098	10	46A01538	-----	10
12-10 Ga.											
0.250" x 0.032"	Yellow	Partially	11A30009	11A30010	25	11A48064	11A48065	10	11A38003	11A38004	10
0.250" x 0.032"	Yellow	Fully	11A30011	11A30012	10	66C10632	66C10633	10	46A01561	-----	1

Stud Mount Quick-Disconnect Terminals

Tab Width and Thickness	Standard		Tab Width and Thickness	Standard		90°	
	Pkg. Qty.	Pkg. Qty.		Pkg. Qty.	Pkg. Qty.		
#6 Stud Size			#10 Stud Size				
0.250" x 0.032"	11A45003	25	0.250" x 0.032"	11A45004	25	-----	----
			0.250" x 0.032"	-----	----	11A45001	50



Mount these male quick-disconnect terminals to a stud rather than to a wire. Simply mount on a screw, no crimp required.

Quick-Disconnect Terminal Adapters

These non-insulated terminals connect two male quick-disconnect terminals to one female quick-disconnect terminal.

Tab Width and Thickness	Pkg. Qty.	Tab Width and Thickness	Pkg. Qty.	Tab Width and Thickness	Pkg. Qty.	Tab Width and Thickness	Pkg. Qty.	
0.250" x 0.032"	11A45002	50	0.250" x 0.032"	11A45011	50	0.187" x 0.020"	11A45007	25
						0.250" x 0.032"	11A45006	25

Insulated Quick-Disconnect Butt-Splice Adapter

This item acts as a butt connector, but it accepts female quick-disconnect terminals. Requires no crimps - just plug in two 0.250" width female quick-disconnect terminals.

Tab Width and Thickness	Pkg. Qty.
0.250" x 0.032"	11A45005
	25

Piggy-Back Quick-Disconnect Terminals

Connects a male 0.250" x 0.032" tab quick-disconnect terminal to one female 0.250" x 0.032" tab quick-disconnect terminal and a wire. Requires two crimps (terminal to wire strands, terminal to insulation of wire). Standard tools perform both crimps. For heavier usage, use a tool that performs both crimps at the same time.

Wire Size (AWG)	Color	Vinyl Insulated		Nylon Insulated	
		Pkg. Qty.	Pkg. Qty.	Pkg. Qty.	Pkg. Qty.
22-18	Red	-----	----	11A45008	25
16-14	Blue	-----	----	11A45010	25
12-10	Yellow	11A45009	25	-----	----



Open Barrel / Non-Insulated Quick-Disconnect Terminals

The open barrel design provides relief from vibration that can cause the wire to fail prematurely. These require a standard crimp and a "B" crimp.

Tang design prevents terminal from backing out of the housing. With a click, the tang locks the terminal in the housing.

Tab Width and Thickness	Open Barrel			Open Barrel with Tang		
	Female	Male	Pkg. Qty.	Female	Male	Pkg. Qty.
16-14 Ga.						
0.250" x 0.032"	11A43048	-----	50	11A43049	11A43053	25



Bullet and Quick-Disconnect Terminals

Standard Bullet Terminals

Bullet terminals are often used as a substitute for quick-disconnect terminals due to their ability to quickly mate and their reconnect ability. Simply slide the male terminal into the female terminal.

The vinyl insulation prevents incidental metal to metal contact that can cause shorts. Requires only one crimp onto the wire.

The nylon insulation provides relief from vibration that can cause the wire to fail prematurely. The nylon insulation also prevents incidental metal to metal contact that can cause shorts. Requires two crimps (terminal to wire strands, terminal to insulation of wire). Standard tools perform both crimps. For heavier usage, use a tool that performs both crimps at the same time.



Bullet Plug Size	Non-Insulated			Color	Vinyl Insulated			Nylon Insulated		
	Female	Male	Pkg. Qty.		Female	Male	Pkg. Qty.	Female	Male	Pkg. Qty.
22-18 Ga.										
0.156"	-----	11A44001	100	Red	-----	11A44003	50	11A44007	11A44005	25
0.180"	-----	-----	----	Red	-----	11A44004	50	11A44008	11A44006	25
16-14 Ga.										
0.156"	-----	11A44009	100	Blue	-----	11A44011	50	11A44016	11A44013	25
0.156"	-----	-----	----	Blue	-----	-----	----	11A44015*	-----	50
0.180"	-----	11A44010	100	Blue	-----	11A44012	50	11A44017	11A44014	25

* Accepts 0.156" male bullet terminals on each end, acts as splice.

Heat-Shrink Bullet Terminals

Bullet terminals are often used as a substitute for quick-disconnect terminals due to their ability to quickly mate and their reconnect ability. Simply slide the male terminal into the female terminal.

Use the heat-shrink bullet terminals in harsh environments. These terminals feature a heat-shrink connection that also has an internal sealant. After crimping the terminal onto the wire, simply apply heat. Keeps moisture out while ensuring your wire does not pull out of the terminal.

A heavy duty heat-shrink jacket makes it very difficult to cut into these heat-shrink terminals during the crimping process, a common problem with basic heat-shrink terminals.



Bullet Plug Size	Color	Standard			Color	Heavy Duty		
		Female	Male	Pkg. Qty.		Female	Male	Pkg. Qty.
22-18 Ga.								
0.156"	Red	11A31002	11A31001	25	Red	46A01658	11A48023	10
16-14 Ga.								
0.156"	Blue	11A31004	11A31003	25	Blue	46A01382	11A48055	10
0.180"	Blue	66C10479	11A31005	25	Blue	46A01659	11A48056	10

Insulated Knife Disconnect Terminals



Similar to quick-disconnect terminals, except two of the same terminals will mate with each other like a handshake - no male/female issues. Simply slide two terminals together and a tongue locks them in place. Reusable, simple splice. Requires only one crimp onto the wire.

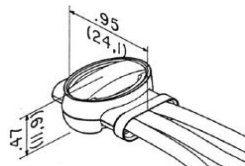
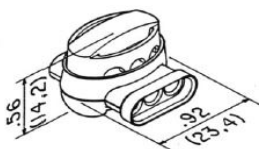
Wire Size (AWG)	Non-Insulated		Color	Vinyl Insulated	
	Pkg. Qty.	Pkg. Qty.		Pkg. Qty.	Pkg. Qty.
22-18	-----	----	Red	11A43100	25
16-14	11A43097	25	Blue	11A43101	25
12-10	11A43098	25	Yellow	11A43102	25

Self-Stripping Connector



Part #66C10800 electrically connects two or three wire ends, insulates the connection, and provides a moisture resistant seal. UL listed and CSA certified. Voltage rated at 600 volts maximum and operating temperature of 221° F.

Use 22-14 gauge solid or stranded, tinned or untinned wire. Common insulated wires: T, TF, TFF, TFN, TFFN, AWN, TEW, SAE-GPT with a maximum insulation diameter of 0.15 inches.



Instructions:

1. Insert 2 or 3 unstripped wires completely into connector and check their position by looking through the translucent connector body.
2. Hold tool perpendicular to the wires and make the connection by driving the cap down flush with the edge of the connector body.

Wire Connectors & Quick Splices

Ideal Wire Connectors

Terminate wires in these color-coded Ideal wire connectors. No pre-twisting required, plus they're reusable.



Wire Combinations		Color	Pkg. Qty.
Minimum	to Maximum		
(2) 22 Ga.	(2) 16 Ga.	Gray	11A46001 100
(2) 22 Ga.	(2) 16 Ga.	Blue	11A46002 100
(2) 20 Ga.	(2) 18 Ga.	Orange	11A46003 100
(2) 22 Ga.	(2) 16 Ga.	Yellow	11A46004 100
(2) 14 Ga.	(2) 12 Ga.	Red	11A46005 50

Ceramic High-Temp Wire Connectors

For use in the most demanding, high-temperature environments. Max temperature 320°F.



Wire Combinations		Pkg. Qty.
Minimum	to Maximum	
(2) 18 Ga.	(1) 16 & (1) 14 Ga.	11A46011 25
(2) 18 Ga.	(2) 18 & (2) 16 Ga.	11A46012 25
(2) 18 Ga.	(3) 18 & (1) 14 Ga.	11A46013 25
(2) 14 Ga.	(2) 12 Ga.	11A46014 10

Clear Crimp-Style Wire Connectors

Simply crimp the wire in the housing like you would with wire into a terminal. Also known as closed end wire connectors. Nylon insulation over copper insert. UL listed.



Wire Size (AWG)	Pkg. Qty.
22-16	11A46015 100
16-14	11A46016 100
12-10	11A46017 100
8	11A46018 100

T-Taps

T-Taps are nylon insulated self-stripping disconnects. Mates with male fully insulated quick-connects.



Opened



Closed

Easy-Twist Ideal Wire Connectors

Exterior grips make these easy to twist onto your wire. No pre-twisting required, plus they're reusable.



Wire Combinations		Color	Pkg. Qty.
Minimum	to Maximum		
(2) 18 Ga.	(2) 12 Ga.	Yellow	11A46008 50
(2) 18 Ga.	(2) 10 Ga.	Red	11A46009 50
(2) 12 Ga.	(2) 6 Ga.	Blue	11A46010 10

Fits-All Ideal Wire Connectors

Accepting a wide range of wire sizes allows you to stock fewer wire connectors. Exterior grips make these easy to twist onto your wire. No pre-twisting required, plus they're reusable.



Wire Combinations		Color	Pkg. Qty.
Minimum	to Maximum		
(3) 22 Ga.	(3) 10 Ga.	Tan	11A46006 50
(3) 14 Ga.	(3) 8 Ga.	Red	11A46007 25

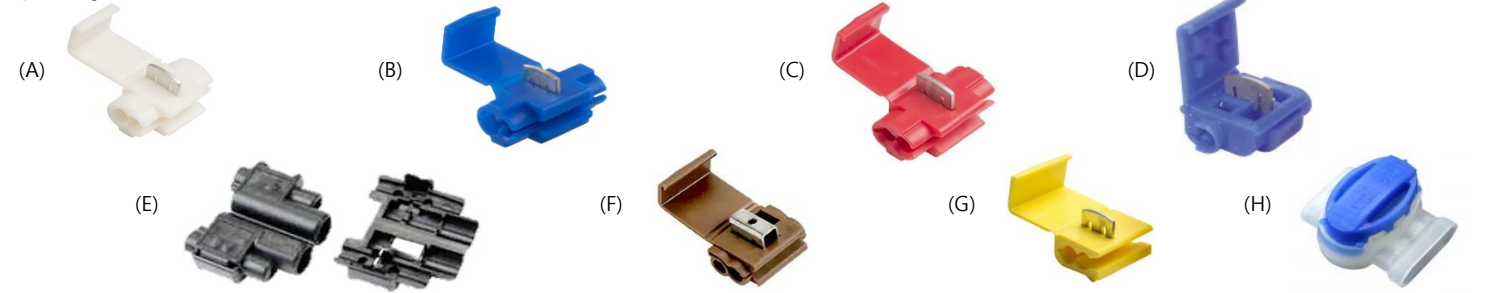
Electrical Spring Connectors

The original color-coded wire connectors are flexible, yet durable. The soft outer shell is easy on the fingers and the inner shell prevents the wire from poking through.



Wire Size (AWG)	Color	Pkg. Qty.
22-8	Red and Yellow	66C11408 50
22-8	Tan and Red	66C11581 50

Quick Splices



Quick splices, also known as self stripping connectors, require no wire stripping or twisting. Solvent resistant plastic construction. No special tools are required.


Wire Range (AWG)	Color	Connection	Pkg. Qty.
(A) 18 to 14	White	Double Run	66C11575 50
(B) 18 to 14	Blue	Run and Tap	66C11576 50
(C) 22 to 18	Red	Run and Tap	66C11577 50
(D) 18 to 16	Blue	Instant Tap with Sealant	66C11623 25

Wire Range (AWG)	Color	Connection	Pkg. Qty.
(E) 18 to 16	Black	Bullet Disconnect	66C11578 50
(F) 18 to 10	Brown	Run and Tap	66C11579 25
(G) 12 to 10	Yellow	Run and Tap	66C11580 25
(H) 22 to 14	Blue	Moisture Resistant Seal	66C10800 10

Terminal Kits


Non-Insulated Terminal Kit

This kit contains 20 different terminals, 460 pieces, sizes 16 to 10 gauge, including rings, hooks, forks, and butt splices. Comes in a small metal box, 13 3/8" w x 9 1/4" d x 2" h.

	Kit Contains	Description	Qty.	(Cont.)	Description	Qty.	
	11A11020	16-14 Ga., #6 Narrow Ring Terminals	25	11A20004	16-14 Ga., Compact Butt Splice Terminals	25	
	11A11022	16-14 Ga., #8 Ring Terminals	25	11A20003	16-14 Ga., Butt Splice Terminals	25	
	11A11026	16-14 Ga., #10 Ring Terminals	25	11A11042	12-10 Ga., #10 Ring Terminals	25	
	11A11030	16-14 Ga., 1/4" Narrow Ring Terminals	25	11A11044	12-10 Ga., 1/4" Ring Terminals	15	
	11A11034	16-14 Ga., 5/16" Ring Terminals	25	11A11046	12-10 Ga., 5/16" Ring Terminals	15	
	11A11032	16-14 Ga., 3/8" Ring Terminals	25	11A11045	12-10 Ga., 3/8" Ring Terminals	15	
	11A17002	16-14 Ga., #8 Hook Terminals	25	11A11043	12-10 Ga., 1/2" Ring Terminals	15	
	Part #	11A14023	16-14 Ga., #6 Narrow Block Fork Terminals	25	11A14034	12-10 Ga., #10 Fork Terminals	25
	11A47006	11A14017	16-14 Ga., #8 Fork Terminals	25	11A20006	12-10 Ga., Compact Butt Splices	25
		11A14019	16-14 Ga., #10 Fork Terminals	25	11A20005	12-10 Ga., Butt Splice Terminals	25


PVC-Insulated Terminal Kit

This kit contains 24 different terminals, 530 pieces, sizes 16 to 6 gauge, including rings, hooks, forks, quick-disconnects, and butt splices. Comes in a large metal box, 18" w x 12" d x 3" h.

	Kit Contains	Description	Qty.	(Cont.)	Description	Qty.	
	11A21003	16-14 Ga., Butt Splice Terminals	25	11A44016	16-14 Ga., 0.156" Dia., Female Bullet Term.	25	
	11A12011	16-14 Ga., #6 Narrow Ring Terminals	25	11A21005	12-10 Ga., Butt Splice Terminals	25	
	11A12014	16-14 Ga., #10 Ring Terminals	25	11A42003	16-14 To 12-10 Ga., Step-Down Terminals	10	
	11A12015	16-14 Ga., 1/4" Ring Terminals	25	11A12020	12-10 Ga., #10 Ring Terminals	25	
	11A12016	16-14 Ga., 3/8" Ring Terminals	25	11A12022	12-10 Ga., 1/4" Ring Terminals	25	
	11A43060	16-14 Ga., 0.250" W., Male Quick Disc.	25	11A12024	12-10 Ga., 5/16" Ring Terminals	25	
	11A43058	16-14 Ga., 0.250" W., Female Quick Disc.	25	11A12023	12-10 Ga., 3/8" Ring Terminals	25	
	Part #	11A15017	16-14 Ga., #6 Narrow Fork Block Terminals	25	11A15027	12-10 Ga., #10 Fork Terminals	25
	11A47009	11A15015	16-14 Ga., #10 Fork Terminals	25	11A11048	8 Ga., #10 Ring Terminals	15
		11A18002	16-14 Ga., #8 Hook Terminals	25	11A11050	8 Ga., 1/4" Non-Insulated Ring Terminals	15
		11A24003	16-14 Ga., 4-Way Terminals	10	11A11056	6 Ga., 1/4" Non-Insulated Ring Terminals	15
		11A44011	16-14 Ga., 0.156" Dia., Male Bullet Term.	25	11A11057	6 Ga., 3/8" Non-Insulated Ring Terminals	15


Nylon-Insulated Terminal Kit

This kit contains 18 different terminals, 243 pieces, sizes 22 to 10 gauge, including rings, quick-disconnects, quick splices, and butt splices. Comes in a small metal box, 13 3/8" w x 9 1/4" d x 2" h.

	Kit Contains	Description	Qty.	(Cont.)	Description	Qty.	
	11A22002	22-18 Ga., Butt Splice Terminals	20	11A43073	16-14 Ga., 0.250" W., Female Quick Disc.	15	
	11A13010	22-18 Ga., #10 Ring Terminals	15	11A43079	16-14 Ga., 0.250" W., Male Fully-Ins., Quick	10	
	11A13006	22-18 Ga., #6 Narrow Ring Terminals	15	11A43077	16-14 Ga., 0.250" W., Fem. Fully-Ins., Quick	15	
	11A22006	16-14 Ga., Butt Splice Terminals	20	11A22010	12-10 Ga., Butt Splice Terminals	15	
	11A13018	16-14 Ga., #6 Narrow Ring Terminals	15	11A13036	12-10 Ga., #10 Ring Terminals	15	
	11A13022	16-14 Ga., #10 Ring Terminals	15	11A13040	12-10 Ga., 1/4" Ring Terminals	10	
	11A13026	16-14 Ga., 1/4" Ring Terminals	15	11A13041	12-10 Ga., 3/8" Ring Terminals	10	
	Part #	11A13029	16-14 Ga., 3/8" Ring Terminals	12	11A43090	12-10 Ga., 0.250" W., Female Quick Disc.	10
	11A47007	11A43075	16-14 Ga., 0.250" W., Male Quick Disc.	10	66C11575	18-14 Ga., Quick Splices	6

Large Nylon-Insulated Terminal Kit

This kit contains 20 different terminals, 370 pieces, sizes 22 to 10 gauge, including rings, forks, quick-disconnects, quick splices, and butt splices. Comes in a large metal box, 18" w x 12" d x 3" h.

	Kit Contains	Description	Qty.	(Cont.)	Description	Qty.	
	11A22002	22-18 Ga., Butt Splice Terminals	20	11A44013	16-14 Ga., 0.156" Dia., Male Bullet Term.	15	
	11A13006	22-18 Ga., #6 Narrow Ring Terminals	20	11A44016	16-14 Ga., 0.156" Dia., Female Bullet Term.	15	
	11A13010	22-18 Ga., #10 Ring Terminals	20	11A22010	12-10 Ga., Butt Splice Terminals	20	
	11A22006	16-14 Ga., Butt Splice Terminals	25	11A13036	12-10 Ga., #10 Ring Terminals	15	
	11A13018	16-14 Ga., #6 Ring Terminals	20	11A13040	12-10 Ga., 1/4" Ring Terminals	15	
	11A13022	16-14 Ga., #10 Ring Terminals	20	11A13041	12-10 Ga., 3/8" Ring Terminals	15	
	11A13026	16-14 Ga., 1/4" Ring Terminals	20	11A43090	12-10 Ga., 0.250" W., Female Quick Disc.	15	
	Part #	11A43075	16-14 Ga., 0.250" W., Male Quick Disc.	20	66C11575	18-14 Ga., Quick Splices	15
	11A47008	11A43073	16-14 Ga., 0.250" W., Female Quick Disc.	20	12A16002	16-14 Ga., 56 Series Male Unsealed Term.	20
		11A16023	16-14 Ga., #10 Fork Terminals	20	12A16005	16-14 Ga., 56 Series Female Unsealed Term.	20

Heat-Shrink Terminal Kit

Great for maintenance applications, this kit contains 23 different heat-shrink terminals, 300 pieces, sizes 22 to 8 gauge, including rings, butt splices, and quick-disconnect terminals. Comes in a large metal box, 18"w x 12"d x 3"h.

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
11A28002	22-18 Ga., Butt Splice Terminals	25	11A30007	16-14 Ga., 0.250" W., Female Quick Disc.	10
11A26001	22-18 Ga., #6 Ring Terminals	20	11A30006	16-14 Ga., 0.250" W., Male Fully Insulated	10
11A26003	22-18 Ga., #10 Ring Terminals	20	11A30005	16-14 Ga., 0.250" W., Female Fully Insulated	10
11A30001	22-18 Ga., 0.250" W., Male Quick Disc.	10	11A28008	12-10 Ga., Butt Splice Terminals	15
11A30002	22-18 Ga., 0.250" W., Female Quick Disc.	10	11A28010	16-14 To 12-10 Ga., Step-Down Butt Splices	5
11A28004	16-14 Ga., Butt Splice Terminals	25	11A26016	12-10 Ga., #10 Ring Terminals	15
11A26013	16-14 Ga., #6 Ring Terminals	20	11A26018	12-10 Ga., 1/4" Ring Terminals	10
11A26008	16-14 Ga., #10 Ring Terminals	20	11A26020	12-10 Ga., 5/16" Ring Terminals	10
11A26010	16-14 Ga., 1/4" Ring Terminals	10	11A26019	12-10 Ga., 3/8" Ring Terminals	10
11A26012	16-14 Ga., 5/16" Ring Terminals	10	11A26017	12-10 Ga., 1/2" Ring Terminals	10
11A26011	16-14 Ga., 3/8" Ring Terminals	10	11A28011	8 Ga., Butt Splice Terminals	5
11A30008	16-14 Ga., 0.250" W., Male Quick Disc.	10			



Part #
11A47003

Heavy Duty Nylon Heat-Shrink Terminal Kit

These heavy duty nylon heat-shrink terminals make installation easy and will even repair themselves in the heat shrink process. Great for maintenance applications, this kit contains 23 different heat-shrink terminals, 300 pieces, sizes 22 to 8 gauge, including splices, and quick disconnect terminals. Comes in a large metal box, 18"w x 12"d x 3"h.

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
11A28003	22-18 Ga., Nylon Butt Splice Terminals	25	11A48033	16-14 Ga., 0.250" Nylon Female Quick Disc.	10
11A48021	22-18 Ga., #6 Nylon Ring Terminals	20	11A48098	16-14 Ga., 0.250" Nylon Male Fully Insulated	10
11A48017	22-18 Ga., #10 Nylon Ring Terminals	20	11A48097	16-14 Ga., 0.250" Nylon Female Fully Insulated	10
11A48004	22-18 Ga., 0.250" Nylon Male Quick Disc.	10	11A28009	12-10 Ga., Nylon Butt Splice Terminals	15
11A48003	22-18 Ga., 0.250" Nylon Female Quick Disc.	10	11A48067	16-14 to 12-10 Ga., Nylon Step-Down Splices	5
11A28006	16-14 Ga., Nylon Butt Splice Terminals	25	11A48076	12-10 Ga., #10 Nylon Ring Terminals	15
11A48053	16-14 Ga., #6 Nylon Ring Terminals	20	11A48078	12-10 Ga., 1/4" Nylon Ring Terminals	10
11A48047	16-14 Ga., #10 Nylon Ring Terminals	20	11A48080	12-10 Ga., 5/16" Nylon Ring Terminals	10
11A48050	16-14 Ga., 1/4" Nylon Ring Terminals	10	11A48079	12-10 Ga., 3/8" Nylon Ring Terminals	10
11A48052	16-14 Ga., 5/16" Nylon Ring Terminals	10	11A48067	12-10 Ga., 1/2" Nylon Ring Terminals	10
11A48051	16-14 Ga., 3/8" Nylon Ring Terminals	10	11A48090	8 Ga., Nylon Butt Splice Terminals	5
11A48034	16-14 Ga., 0.250" Nylon Male Quick Disc.	10			



Part #
11A47010

Heat-Shrink Terminals and Tool Kit

A compact kit contains 6 different types of heat-shrink terminals, 3 sizes of heat-shrink butt splices and 3 sizes of heat-shrink ring terminals. Also included is a ratcheting crimp tool, a wire stripping tool, and a mini torch. All contained in a soft sided case with zipper.

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
11A28002	22-18 Ga., Heat-Shrink Butt Splices	20	11A26016	12-10 Ga., #10 Heat-Shrink Ring Term.	15
11A28004	16-14 Ga., Heat-Shrink Butt Splices	20	37A13013	22-10 Ga., Heat-Shrink Crimp Tool	1
11A28008	10-12 Ga., Heat-Shrink Butt Splices	15	-----	22-10 Ga. Stripping and Crimping Tool	1
11A26003	22-18 Ga., #10 Heat-Shrink Ring Term.	20	-----	Turbo Lite Mini Torch	1
11A26008	16-14 Ga., #10 Heat-Shrink Ring Term.	20	-----	Soft 6 Compartment Case	1



Part # 66C10629

Small Heat-Shrink Butt Splice Terminals and Tool Kit

This portable heat-shrink kit contains 3 different sizes of butt splices. Also included is an economy crimping, stripping, and cutting tool and a mini torch. All contained in a soft sided case with a zipper.

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
11A28002	22-18 Ga., Heat-Shrink Butt Splices	20	37A12001	Crimper/Stripper/Cutter Tool	1
11A28004	16-14 Ga., Heat-Shrink Butt Splices	20	-----	Turbo Lite Mini Torch	1
11A28008	10-12 Ga., Heat-Shrink Butt Splices	15	-----	Soft 3 Compartment Case	1



Part #
66C10630

Torch and Heat-Shrink Terminal Kit

The torch and terminal kit has 9 different types of nylon heavy-duty heat-shrink terminals, ranging in size from 22 to 10 gauge. You will find a 2500° pocket size butane torch along with rings, forks, all in a large metal box, 18"w x 12"d x 3"h.

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
PT-4000	Compact Pen Torch	1	11A48033	16-14 Ga., 1/4" Ring Terminals	50
11A28003	22-18 Ga., Butt Splice Terminals	50	11A28009	12-10 Ga., Butt Splice Terminals	25
11A28006	16-14 Ga., Butt Splice Terminals	50	11A48076	12-10 Ga., #10 Ring Terminals	25
11A48053	16-14 Ga., #6 Ring Terminals	50	11A48078	12-10 Ga., 1/4" Ring Terminals	25
11A48047	16-14 Ga., #10 Ring Terminals	50	11A48079	12-10 Ga., 3/8" Ring Terminals	25



Part #
66C11729

Terminal Kits

Solder Shrink Kit

Solder heat-shrink terminals are used in harsh environments. This kit contains 480 terminals and range from 26 to 10 gauge. There are butt splices, forks, rings, and quick-disconnect terminals. Comes in a large metal box, 18"w x 12"d x 3"h.



Part #
66C11528

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
11A39001	26-24 Ga., Butt Splice Terminals	25	11A38001	16-14 Ga., 0.250" W., Male Quick Disc.	25
11A39002	22-18 Ga., Butt Splice Terminals	25	11A38002	16-14 Ga., 0.250" W., Female Quick Disc.	25
11A36001	22-18 Ga., #6 Ring Terminals	25	11A37002	16-14 Ga., #10 Fork Terminals	25
11A36002	22-18 Ga., #8 Ring Terminals	25	11A39004	12-10 Ga., Butt Splice Terminals	25
11A36003	22-18 Ga., #10 Ring Terminals	25	11A36008	12-10 Ga., #10 Ring Terminals	15
11A36004	22-18 Ga., 1/4" Ring Terminals	25	11A36010	12-10 Ga., 1/4" Ring Terminals	15
11A37001	22-18 Ga., #10 Fork Terminals	25	11A36011	12-10 Ga., 3/8" Ring Terminals	15
11A39003	16-14 Ga., Butt Splice Terminals	25	11A36009	12-10 Ga., 1/2" Ring Terminals	15
11A36005	16-14 Ga., #10 Ring Terminals	25	11A38004	12-10 Ga., 0.250" W., Male Quick Disc.	15
11A36006	16-14 Ga., 1/4" Ring Terminals	25	11A38003	12-10 Ga., 0.250" W., Female Quick Disc.	15
11A36007	16-14 Ga., 3/8" Ring Terminals	25	11A37003	12-10 Ga., #10 Fork Terminals	15

Micro Terminal Kit

This kit has gained popularity as more and more computers with 26-22 gauge wire are installed in mobile applications. Kit contains 17 different 26-20 gauge terminals, over 400 pieces, including rings, forks, butt splices, quick-disconnects, and heat-shrink terminals. Comes in a small metal box, 13 3/8"w x 9 1/4"d x 2"h.



Part #
11A47002

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
11A11001	26-24 Ga., #2 Non-Ins. Ring Terminals	25	11A13003	26-24 Ga., #6 Nylon Ring Terminals	25
11A11003	26-24 Ga., #4 Non-Ins. Ring Terminals	25	11A43002	26-24 Ga., 0.110" W., Nylon Female Disc.	25
11A11004	26-24 Ga., #6 Non-Ins. Ring Terminals	25	11A43003	26-24 Ga., 0.187" W., Nylon Female Disc.	25
11A14001	24-20 Ga., #4 Non-Ins. Fork Terminals	25	11A43004	26-22 Ga., 0.110" W., Nylon Female Disc.	25
11A14002	24-20 Ga., #6 Non-Ins. Fork Terminals	25	11A16001	26-24 Ga., #2 Nylon Fork Terminals	25
11A43001	26-24 Ga., 0.187" W., Female Quick Disc.	25	11A16002	26-24 Ga., #4 Nylon Fork Terminals	25
11A22001	26-24 Ga., Nylon Butt Splice Terminals	25	11A16003	26-24 Ga., #6 Nylon Fork Terminals	25
11A13001	26-24 Ga., #2 Nylon Ring Terminals	25	11A28001	26-22 Ga., Heat-Shrink Butt Splices	25
11A13002	26-24 Ga., #4 Nylon Ring Terminals	25			

Micro Terminal Kit with Crimping Tool

This kit has gained popularity as more and more computers with 26-22 gauge wire are installed in mobile applications. Kit contains 22 different 26-20 gauge terminals, over 500 pieces, including rings, forks, butt splices, quick-disconnects, and heat-shrink terminals. It also contains the versatile 3M® TH-450 crimping tool to crimp those tiny terminals onto the tiny wire. Comes in a small metal box, 13 3/8"w x 9 1/4"d x 2"h.

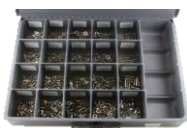


Part #
11A47001

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
11A20023	26-22 Ga., Non-Ins. Butt Splice Terminals	25	11A13052	26-24 Ga., #10 Nylon Ring Terminals	25
11A11001	26-24 Ga., #2 Non-Ins. Ring Terminals	25	11A43002	26-24 Ga., 0.110" W., Nylon Female Disc.	25
11A11003	26-24 Ga., #4 Non-Ins. Ring Terminals	25	11A43003	26-24 Ga., 0.187" W., Nylon Female Disc.	25
11A11004	26-24 Ga., #6 Non-Ins. Ring Terminals	25	11A43004	26-22 Ga., 0.110" W., Nylon Female Disc.	25
11A43001	26-24 Ga., 0.187" W., Female Quick Disc.	25	11A43104	26-22 Ga., 0.250" W., Nylon Female Disc.	25
11A14001	24-20 Ga., #4 Non-Ins. Fork Terminals	25	11A43103	26-22 Ga., 0.187" W., Nylon Female Disc.	25
11A14002	24-20 Ga., #6 Non-Ins. Fork Terminals	25	11A16001	26-24 Ga., #2 Nylon Fork Terminals	25
11A22001	26-24 Ga., Nylon Butt Splice Terminals	25	11A16002	26-24 Ga., #4 Nylon Fork Terminals	25
11A13001	26-24 Ga., #2 Nylon Ring Terminals	25	11A16003	26-24 Ga., #6 Nylon Fork Terminals	25
11A13002	26-24 Ga., #4 Nylon Ring Terminals	25	11A28001	26-22 Ga., Heat-Shrink Butt Splices	25
11A13003	26-24 Ga., #6 Nylon Ring Terminals	25	37A12003	3M, Heavy Duty Crimper/Stripper	1
11A13051	26-24 Ga., #8 Nylon Ring Terminals	25			

High-Temperature Terminal Kit

These 900°F terminals are made of nickel plated steel. This kit contains 20 different high-temperature terminals, 500 pieces, sizes 22 to 10 gauge, including rings, forks, butt splices, and quick-disconnect terminals. Comes in a small metal box, 13 3/8"w x 9 1/4"d x 2"h.



Part #
11A47004

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
11A34001	22-18 Ga., Butt Splice Terminals	25	11A33004	16-14 Ga., #10 Fork Terminals	25
11A32001	22-18 Ga., #6 Ring Terminals	25	11A35006	16-14 Ga., 0.250" W., Male Quick Disc.	25
11A32002	22-18 Ga., #8 Ring Terminals	25	11A35004	16-14 Ga., 0.250" W., Female Quick Disc.	25
11A32003	22-18 Ga., #10 Ring Terminals	25	11A34003	12-10 Ga., Butt Splice Terminals	25
11A33001	22-18 Ga., #6 Fork Terminals	25	11A32012	12-10 Ga., #6 Ring Terminals	25
11A34002	16-14 Ga., Butt Splice Terminals	25	11A32013	12-10 Ga., #8 Ring Terminals	25
11A32006	16-14 Ga., #6 Ring Terminals	25	11A32014	12-10 Ga., #10 Ring Terminals	25
11A32007	16-14 Ga., #8 Ring Terminals	25	11A32015	12-10 Ga., 1/4" Ring Terminals	25
11A32008	16-14 Ga., #10 Ring Terminals	25	11A35007	12-10 Ga., 0.250" W., Female Quick Disc.	25
11A33002	16-14 Ga., #6 Fork Terminals	25	11A33007	12-10 Ga., #6 Fork Terminals	25

Terminal Kits & Wire Ferrule Kit

Terminal Maintenance Kit

This kit contains 21 different vinyl insulated terminals, 450 pieces, sizes 22 to 10 gauge, including rings, forks, butt splices, quick-disconnect, and bullet terminals, as well as 8" cable ties. Comes in a small metal box, 13 3/8"w x 9 1/4"d x 2"h.

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
11A21001	22-18 Ga., Vinyl Butt Splice Terminals	25	11A15015	16-14 Ga., #10 Vinyl Fork Terminals	25
11A21003	16-14 Ga., Vinyl Butt Splice Terminals	25	11A18002	16-14 Ga., #8 Hook Terminals	25
11A12011	16-14 Ga., #6 Vinyl Ring Terminals	25	11A21005	12-10 Ga., Vinyl Butt Splice Terminals	20
11A12014	16-14 Ga., #10 Ring Terminals	25	11A12020	12-10 Ga., #10 Vinyl Ring Terminals	20
11A12015	16-14 Ga., 1/4" Ring Terminals	25	11A12022	12-10 Ga., 1/4" Ring Terminals	15
11A12016	16-14 Ga., 3/8" Vinyl Ring Terminals	25	11A12024	12-10 Ga., 5/16" Ring Terminals	25
11A43060	16-14 Ga., 0.250" W., Vinyl Male Disc.	25	11A12023	12-10 Ga., 3/8" Ring Terminals	25
11A43058	16-14 Ga., 0.250" W., Vinyl Female Disc.	25	11A15027	12-10 Ga., #10 Vinyl Fork Terminals	20
11A44011	16-14 Ga., 0.156" Dia., Nylon Male Bullet	15	11A45011	0.250" W. Female To Two Stacked Male	15
11A44016	16-14 Ga., 0.156" Dia., Nylon Fem. Bullet	15	16A11028	8", 50 lb. White, Standard Cable Ties	25
11A15017	16-14 Ga., #6 Narrow Fork Block Term.	25			



Part #
11A47005

Heating Ventilation Air Conditioning Kit

A handy kit to have when working on heating, ventilation and air conditioning. The kit contains 26 different types of terminals, ranging from 22 to 10 gauge. There are vinyl rings, splices, bullets, quick-disconnects, forks, adapters, and cable ties. Comes in a small metal box, 13 3/8"w x 9 1/4"d x 2"h.

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
11A21001	22-18 Ga., Vinyl Butt Splice Terminals	25	11A44011	16-14 Ga., 0.156" Dia., Nylon Male Bullet	15
11A12003	22-18 Ga., #6 Narrow Vinyl Ring Terminals	25	11A43046	16-14 Ga., 0.250" W., Female Quick Disc.	25
11A43020	22-18 Ga., 0.250" W., Vinyl Female Disc.	25	11A44016	16-14 Ga., 0.156" Dia., Nylon Female Bullet	15
11A21003	16-14 Ga., Vinyl Butt Splice Terminals	25	11A21005	12-10 Ga., Vinyl Butt Splice Terminals	20
11A12011	16-14 Ga., #6 Vinyl Ring Terminals	25	11A12020	12-10 Ga., #10 Vinyl Ring Terminals	20
11A12016	16-14 Ga., 3/8" Vinyl Ring Terminals	25	11A15027	12-10 Ga., #10 Vinyl Fork Terminals	20
11A43060	16-14 Ga., 0.250" W., Vinyl Male Disc.	25	11A45006	Female To Two Male Connector, 0.250" W.	15
11A43058	16-14 Ga., 0.250" W., Vinyl Female Disc.	25	11A45010	Male And Female Quick Disc., 0.250" W.	15
11A43056	16-14 Ga., 0.187" W., Vinyl Female Disc.	25	11A45011	0.250" W. Female To Two Stacked Male	15
11A43077	16-14 Ga., 0.250" W., Nylon Female Disc.	25	66C11632	Standard 8", 50Lb. White Cable Ties	25
11A15015	16-14 Ga., #10 Vinyl Fork Terminals	25			

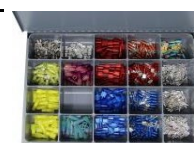


Part #
66C11020

Quick Disconnect Terminal Kit

This kit contains 20 different terminals, 600 pieces, sizes 16 to 10 gauge, including bare, nylon, fully insulated, and heat-shrink, quick disconnect terminals. Comes in a small metal box, 13 3/8"w x 9 1/4"d x 2"h.

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
11A43025	22-18 Ga., 0.187" W., Female Nylon Ins.	25	11A43073	16-14 Ga., 0.250" W., Female Nylon Ins.	50
11A43012	22-18 Ga., 0.187" W., Female Non-Ins.	50	11A43079	16-14 Ga., 0.250" W., Male Nylon Fully Ins.	25
11A16072	22-18 Ga., 0.250" W., Female Nylon Ins.	50	11A43077	16-14 Ga., 0.250" W., Female Nylon Fully Ins.	25
11A43038	22-18 Ga., 0.250" W., Male Nylon Fully Ins.	25	11A30005	16-14 Ga., 0.250" W., Female Shrink Fully Ins.	25
11A43036	22-18 Ga., 0.250" W., Female Nylon Fully Ins.	25	11A43081	12-10 Ga., 0.250" W., Female Non-Ins.	50
11A30003	22-18 Ga., 0.250" W., Female Shrink Fully Ins.	25	11A16074	12-10 Ga., 0.250" W., Female Nylon Ins.	25
11A43063	16-14 Ga., 0.187" W., Female Nylon Ins.	25	11A43095	12-10 Ga., 0.250" W., Male Nylon Fully-Ins.	15
11A16073	16-14 Ga., 0.250" W., Male Non-Ins.	50	11A43093	12-10 Ga., 0.250" W., Female Nylon Ins.	15
11A43050	16-14 Ga., 0.250" W., Female Non-Ins.	50	11A45006	0.250" W., Female To Two Male Connector	10
11A43046	16-14 Ga., 0.250" W., Female Non-Ins. Flag	25	11A45010	0.250" W., Male and Female Connector	10



Part #
11A47011

Wire Ferrule Kit

Kit contains 6 types of insulated ferrules, from 22 gauge to 12 gauge. 600 ferrules in a plastic box, 11"w x 6 3/4"d x 1 3/4"h.

Part #13A15001

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
13A11004	22 Gauge White Insulated Ferrules	100	13A11008	16 Gauge Black Insulated Ferrules	100
13A11005	20 Gauge Light Blue Insulated Ferrules	100	13A11010	14 Gauge Gray Insulated Ferrules	100
13A11006	18 Gauge Red Insulated Ferrules	100	13A11013	12 Gauge Orange Insulated Ferrules	100



Let Us Customize A Kit For You

Let us build a kit that will suit your needs.

You choose the terminals, tools, and whatever else you may need. We put it all together in a plastic or metal box. You now have everything you need right at your fingertips.



Wire Ferrules & Pin and Blade Terminals

Non-Insulated Wire Ferrules



Create a better connection under set screws, pressure plates, and in terminal blocks by capturing all of the wire strands at the contact point. Ferrules also hold up to vibration, can be reconnected multiple times without damage and make stronger mechanical connections than ring or fork terminals.

Wire Size (AWG)	Pin Length	Pkg. Qty.	Wire Size (AWG)	Pin Length	Pkg. Qty.	Wire Size (AWG)	Pin Length	Pkg. Qty.
28	0.28" (7mm)	13A12001 100	14	0.39" (10mm)	13A12008 100	1/0	0.71" (18mm)	13A12015 25
26	0.2" (5mm)	13A12002 100	12	0.47" (12mm)	13A12009 100	2/0	0.98" (25mm)	13A12016 10
24	0.2" (5mm)	13A12003 100	10	0.59" (15mm)	13A12010 100	3/0	0.98" (25mm)	13A12017 10
22	0.39" (10mm)	13A12004 100	8	0.47" (12mm)	13A12011 100	4/0	1.26" (32mm)	13A12018 10
20	0.39" (10mm)	13A12005 100	6	0.47" (12mm)	13A12012 50	250 MCM	1.26" (32mm)	13A12019 10
18	0.39" (10mm)	13A12006 100	4	0.59" (15mm)	13A12013 50	350 MCM	1.26" (32mm)	13A12020 10
16	0.39" (10mm)	13A12007 100	2	0.71" (18mm)	13A12014 25			

Insulated Wire Ferrules



Create a better connection under set screws, pressure plates, and in terminal blocks by capturing all of the wire strands at the contact point. Ferrules also hold up to vibration, can be reconnected multiple times without damage, and are a stronger mechanical connection than ring or fork terminals. The nylon insulation prevents incidental contact.

Wire Size (AWG)	Pin Length	Color	Pkg. Qty.
Standard			
28	0.24" (6mm)	Brown	13A11001 100
26	0.24" (6mm)	Purple	13A11002 100
24	0.24" (6mm)	Pink	13A11003 100
22	0.31" (8mm)	White	13A11004 100
20	0.31" (8mm)	Light Blue	13A11005 100
18	0.31" (8mm)	Red	13A11006 100
16	0.31" (8mm)	Black	13A11008 100
14	0.31" (8mm)	Gray	13A11010 100
12	0.39" (10mm)	Orange	13A11013 100
10	0.47" (12mm)	Green	13A11015 100
8	0.47" (12mm)	Brown	13A11017 100
6	0.47" (12mm)	Blue	13A11018 50
4	0.63" (16mm)	Black	13A11019 50
2	0.63" (16mm)	Tan	13A11020 25
1/0	0.79" (20mm)	Olive	13A11021 10
2/0	0.83" (21mm)	Yellow	13A11022 10
3/0	0.98" (25mm)	Red	13A11023 10
4/0	1.06" (27mm)	Blue	13A11024 5
250 MCM	1.26" (32mm)	Yellow	13A11025 5

Extra Long

22	0.47" (12mm)	White	66C10827 100
20	0.47" (12mm)	Blue	66C10826 100
18	0.47" (12mm)	Yellow	13A11007 100
16	0.71" (18mm)	Black	13A11009 100
14	0.47" (12mm)	Gray	13A11011 100
14	0.71" (18mm)	Gray	13A11012 100
12	0.71" (18mm)	Orange	13A11014 100
10	0.71" (18mm)	Green	13A11016 100

Solid Pin Terminals



Non-Insulated

Avoid frayed wire ends. Crimp your wire into this terminal and use the solid pin instead of the wire to make your electrical connection. Use the **heavy duty** pin terminals in harsh environments, these terminals feature a heat-shrink connection that also has an internal sealant. Requires one crimp plus heat.

Wire Size (AWG)	Non-Insulated		Color	Vinyl Insulated		Nylon Insulated		Heavy Duty Heat-Shrink	
	Pkg. Qty.			Pkg. Qty.		Pkg. Qty.		Pkg. Qty.	
22-18	11A23001	100	Red	-----	----	11A23002	50	11A48016	25
16-14	11A23003	50	Blue	11A23004	50	11A23005	50	11A48046	25
12-10	11A23006	50	Yellow	11A23007	50	11A23008	25	11A48075	10

Blade Terminal



Avoid frayed wire ends. Crimp your wire into this non-insulated terminal and use the blade instead of the wire to make your electrical connection. Solid tab with flat top and bottom for slipping under set screws or in compression blocks. Stackable. Requires only one crimp onto the wire.

Wire Size (AWG)	Blade Length	Pkg. Qty.
22-16	0.728"	66C10345 50
16-14	0.360"	11A23009 50

Two Wire Insulated Ferrules



Need to terminate two wires at the same point? These are the terminals for you.

Ferrules also hold up to vibration, can be reconnected multiple times without damage, and make stronger mechanical connections than ring or fork terminals.

The nylon insulation prevents incidental contact.

Wire Size (AWG)	Pin Length	Color	Pkg. Qty.
22	0.31" (8mm)	White	13A13001 100
20	0.31" (8mm)	Blue	13A13003 100
18	0.31" (8mm)	Red	13A13004 100
16	0.39" (10mm)	Black	13A13005 100
14	0.47" (12mm)	Blue	66C10825 100
14	0.47" (12mm)	Gray	13A13007 100
12	0.47" (12mm)	Orange	13A13009 100
12	0.47" (12mm)	Gray	66C10824 100
10	0.47" (12mm)	Green	13A13010 100
8	0.47" (12mm)	Brown	13A13011 50
6	0.47" (12mm)	Blue	13A13012 50

Insulated Wire Ferrule Strips for High Volume Applications

For rapid installation, use these ferrule strips, along with our hand tool #FER TOOL STRAP (see next page). These nylon ferrules in strip form, along with the tool, create a semi automatic process. The tool strips, cuts, and crimps with each squeeze of the handle.



Ferrule Strip



Ferrule Tool # 37A14004

Wire Size (AWG)	Pin Length	Color	Pkg. Qty.
22	0.31" (8mm)	White	13A14001 50
20	0.31" (8mm)	Blue	13A14002 50
18	0.31" (8mm)	Red	13A14003 50
16	0.31" (8mm)	Black	13A14004 50
14	0.31" (8mm)	Gray	13A14005 50

Wire Ferrule Tools

Crimps:

- **24-10 gauge** insulated and non-insulated, with a rotating crimp die
- DIN 46228 Pt #1 and #4 or EN-60947-1 type wire ferrules

Features:

- Rotary action head turns 90° to allow crimp to be made from front or side
- German precision engineered tool



Customer's Choice

Part # 37A14002

Crimps:

- **28-6 gauge** insulated and non-insulated wire ferrules, with a trapezoid crimp
- seven crimp zones

Features:

- German precision engineered tool
- Ratcheting tool



Part # 37A14015

Crimps:

- **22-10 gauge** insulated and non-insulated

Features:

- Quick-release
- Five crimp zones
- Economy ratcheting tool



Part # 37A14006

Crimps:

- **20-12 gauge** insulated and non-insulated wire ferrules
- US or DIN type wire ferrules

Features:

- German precision engineered tool
- Ratcheting tool



Part # 37A14001

Crimps:

- **10-6 gauge** insulated and non-insulated

Features:

- Quick-release
- Three crimp zones
- Pressure adjustment wheel
- Economy ratcheting tool



Part # 37A14007

Crimps:

- **8-1 gauge** insulated and non-insulated wire ferrules, with a trapezoid crimp

Features:

- Quick-release
- Extra long handle for greater leverage
- Five crimp zones
- Ratcheting tool



Part # 37A14009

Crimps:

- **4/0 gauge -250MCM** insulated and non-insulated wire ferrules with a trapezoid crimp

Features:

- Heavy-duty Ratcheting Tool



Part # 37A14013

Crimps:

- **22-14 gauge** strip ferrules

Features:

- Semi automatic tool cuts, strips and crimps with each squeeze of the handle.
- Speeds application by 200-300% over standard crimping tools
- Load strip ferrules into this tool for high volume applications



Customer's Choice

Part # 37A14004

Crimps:

- **28-6 gauge** insulated and non-insulated wire ferrules

Features:

- Side loading tool automatically adjusts to wire ferrule sizes
- Precision crimp over full length of the sleeve
- German patented crimp technology produces a high quality six sided crimp
- Ratcheting tool



Part # 37A14014

Crimps:

- **22-12 gauge** insulated and non-insulated
- DIN 46228 Pt #1 and #4

Features:

- One crimp zone crimps all sizes
- German precision engineered tool
- Non-ratcheting tool



Part # 37A14005

Crimps:

- **10-6 gauge** insulated and non-insulated wire ferrules, with a trapezoid crimp in all three crimp zones.

Features:

- German precision engineered ratcheting tool



Part # 37A14003

Crimps:

- **1-3/0 gauge** insulated and non-insulated wire ferrules, with a trapezoid crimp

Features:

- Quick-release
- Extra long handle for greater leverage
- Ratcheting tool



Part # 37A14012

Crimps:

- **6-2 gauge** insulated and non-insulated wire ferrules

Features:

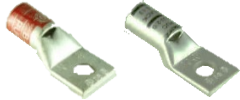
- Quick-release
- Three crimp zones
- Pressure adjustment wheel
- Ratcheting tool



Part # 37A14008

Copper Compression Lugs, Sleeves & Split Bolts

Copper Compression Lugs



The extended barrel allows you to easily make a double crimp, for good wire contact. The sight hole allows you to ensure your wire is inserted properly, plus it's UL listed and can be used up to 600 volts. Sold individually. Many other sizes available through special order.

Wire Size (AWG)	Stud Size	Length	Width	Color		Wire Size (AWG)	Stud Size	Length	Width	Color	
10	#10	0.8"	0.3"	-----	15A11001	1	3/8"	2.1"	0.7"	Green	15A11021
8	#10	1.2"	0.4"	Red	15A11002	1/0	1/4"	2"	0.8"	Pink	15A11022
8	1/4"	1.2"	0.4"	Red	15A11003	1/0	5/16"	2.1"	0.8"	Pink	15A11023
8	5/16"	1.3"	0.6"	Red	15A11004	1/0	3/8"	2.1"	0.8"	Pink	15A11024
8	3/8"	1.3"	0.6"	Red	15A11005	1/0	1/2"	2.4"	0.8"	Pink	15A11025
8	1/2"	1.5"	0.8"	Red	15A11006	2/0	3/8"	2.1"	0.8"	Black	15A11026
6	#10	1.6"	0.4"	Blue	15A11007	2/0	1/2"	2.4"	0.8"	Black	15A11027
6	1/4"	1.7"	0.4"	Blue	15A11008	3/0	3/8"	2"	0.9"	Orange	15A11028
6	5/16"	1.8"	0.5"	Blue	15A11009	3/0	1/2"	2.5"	0.9"	Orange	15A11029
6	3/8"	1.8"	0.6"	Blue	15A11010	4/0	1/4"	2.2"	1"	Purple	15A11030
4	#10	1.6"	0.5"	Gray	15A11011	4/0	3/8"	2.3"	1"	Purple	15A11031
4	1/4"	1.7"	0.5"	Gray	15A11012	4/0	1/2"	2.6"	1"	Purple	15A11032
4	5/16"	1.8"	0.6"	Gray	15A11013	250 MCM	1/4"	2.3"	0.4"	Yellow	15A11033
4	3/8"	1.8"	0.6"	Gray	15A11014	250 MCM	5/16"	2.3"	0.4"	Yellow	15A11034
2	1/4"	1.8"	0.6"	Brown	15A11015	250 MCM	3/8"	2.6"	0.4"	Yellow	15A11035
2	5/16"	1.9"	0.6"	Brown	15A11017	250 MCM	1/2"	2.7"	0.4"	Yellow	15A11036
2	3/8"	2"	0.6"	Brown	15A11018	350 MCM	1/2"	2.9"	1.3"	Red	15A11037
2	1/2"	2.2"	0.8"	Brown	15A11016	400 MCM	5/8"	3.3"	1.4"	Blue	15A11038
1	1/4"	1.4"	0.7"	Green	15A11019	500 MCM	5/8"	3.6"	1.5"	Brown	15A11039
1	5/16"	1.6"	0.7"	Green	15A11020	750 MCM	5/8"	4"	2"	Black	15A11040

Two-Hole Copper Compression Lugs



The double stud connections allow you to secure this lug in two places. The extended barrel allows you to easily make a double crimp, for good wire contact. The sight hole allows you to ensure your wire is inserted properly, plus it's UL listed and can be used up to 600 volts. Sold individually.

Wire Size (AWG)	Stud Size	Length	Width	Color		Wire Size (AWG)	Stud Size	Length	Width	Color	
1/0	5/16"	3.3"	0.8"	Pink	15A11041	250 MCM	1/2"	5.1"	1.1"	Yellow	15A11046
2/0	1/2"	4.8"	0.8"	Black	15A11042	350 MCM	1/2"	5.6"	1.3"	Red	15A11047
3/0	1/2"	4.9"	0.9"	Orange	15A11043	500 MCM	1/2"	6"	1.5"	Brown	15A11048
4/0	1/2"	5.1"	1"	Purple	15A11044	750 MCM	1/2"	5.8"	2"	Black	15A11049

Copper Compression Sleeves



Compression sleeves are heavy duty butt splices. A longer barrel allows for a double crimp and better wire contact. The seamless design won't split in the crimping process. UL listed. Sold individually.

Wire Size (AWG)	Length	Color		Wire Size (AWG)	Length	Color		Wire Size (AWG)	Length	Color	
8	1.1"	Red	15A12010	1	1.9"	Green	15A12001	3/0	2.1"	Orange	15A12005
6	1.8"	Blue	15A12009	1	2.9"	Green	15A12011	3/0	3.1"	Orange	15A12015
4	1.8"	Gray	15A12007	1/0	1.9"	Pink	15A12002	4/0	2.1"	Purple	15A12008
4	2.4"	Gray	15A12016	1/0	2.9"	Pink	15A12012	4/0	3.4"	Orange	15A12017
2	1.9"	Brown	15A12003	2/0	2"	Black	15A12004	350 MCM	2.4"	Red	15A12006
2	2.6"	Brown	15A12013	2/0	3.1"	Black	15A12014				

Copper Split Bolts



Use to connect multiple copper wires together without a crimping tool - simply tighten the hex nut. Accepts a wide range of wire sizes. UL listed. Sold individually.

Wire Range (AWG)	Length	Width		Wire Range (AWG)	Length	Width		Wire Range (AWG)	Length	Width	
16-8	0.8"	0.5"	15A14001	6-2	1.3"	1.3"	15A14005	1/0-250 MCM	2.1"	1.3"	15A14009
10-8	1.1"	0.6"	15A14002	4-1/0	1.6"	0.9"	15A14006	1/0-350 MCM	2.6"	1.6"	15A14010
6-4	1.1"	0.7"	15A14003	2-2/0	1.8"	1"	15A14007				
6-3	1.3"	0.8"	15A14004	2-3/0	2"	1.1"	15A14008				

Neutral Bars, Power Distribution Blocks & Battery Terminal Grounding Straps

Copper Post Connections

Easily attach multiple wires to any surface with these post connectors. Accepts a wide range of wire sizes. No crimping tools required, simply screw down the set screw. UL listed. Sold individually.



Aluminum Mechanical Lugs

Suitable for aluminum or copper wire. Easily attach multiple wires to any surface with these post connectors. Accepts a wide range of wire sizes. No crimping tools required, simply screw down the set screw. UL listed. Sold individually.



Wire Range (AWG)	Stud Size	Length	Width	Height	
14-4	1/4"	1.1"	0.50"	0.50"	15A15001
14-2	1/4"	1.2"	0.50"	0.60"	15A15002
14-1/0	1/4"	1.5"	0.63"	0.80"	15A15003
6-2/0	1/4"	1.5"	0.63"	0.80"	15A15004
6-250MCM	5/16"	2"	1"	1.1"	15A15005
6-350MCM	3/8"	2"	1.1"	1.3"	15A15006
6-500MCM	3/8"	2.8"	1.3"	1.6"	15A15007

Copper Neutral Bars

Grounds multiple wires in a very small space and accepts a wide range of wire sizes. No crimping tool is required. The copper neutral bars are made from high strength copper. Screws are included unless noted. UL listed. Sold individually.

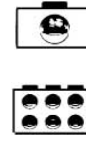


Conductor Range Main/Primary	Conductor Range Tap/Secondary	Number of Taps	Mount Hole Position	Length	
14 to 4	14 to 6	4	1 and 6	2.75"	15A17001
14 to 4	14 to 6	6	2 and 7	3.50"	15A17002
14 to 4	14 to 6	8	4 and 9	4.50"	15A17003
14 to 4	14 to 6	10	4 and 9	5.13"	15A17004
14 to 4	14 to 6	12	5 and 10	6"	15A17005
14 to 4	14 to 6	14	7 and 12	6.75"	15A17006
14 to 4	14 to 6	174	Ground Screws: 1/4"-28 7/16" long		15A17008

Power Distribution Blocks

Power distribution blocks are suitable for copper or aluminum wire. They have great flexibility for using the block as an inline splice or to reduce the wire size. Made of high strength aluminum and have an insulating base. Temperature rating of 194°F and 600 volts maximum.

Use the modular design of the #15A16004 to combine any number of blocks for your job. Sold individually.



In (Primary)

Out (Secondary)



15A16001

15A16004

Poles Per Block	In (Primary) Wire Range	In (Primary) Openings Per Pole	Out (Secondary) Wire Range	Out (Secondary) Openings Per Pole	
1	2/0 to 12	1	4 to 14	6	15A16001
3	350 to 6	1	2/0 to 14	6	15A16002
3	4/0 to 6	2	4 to 14	12	15A16003
1	2/0 to 14	1	4 to 14	4	15A16004

Grounding Straps

The lug to lug grounding straps are finely stranded for maximum conductivity. They are tin coated copper, flexible, and corrosion resistant.

Wire Size (AWG)	Length	Stud Size	
4	9"	1/2"	66C10982
4	13"	1/2"	66C10980
4	18"	3/8"	66C10981
1/0	12"	1/2"	66C10977
1/0	18"	1/2"	66C10978



Can't Find the IlSCO Product That You Need?

Simply provide us with their part number and we'll get it for you.



Copper Lugs & Battery Terminal Kit

Copper Lugs

The one-piece solid tongue of these copper lugs uniquely provides seamless transfer of electricity, a far superior product to the "sandwiched" tongue lugs commonly found in the market. Copper lugs are clearly marked for wire size and offer a flared barrel to ease insertion of finely stranded wire and welding cable. UL listed and CSA certified.

Corrosion resistant lugs have tin plating to stand up to harsh environments.

Heavy-duty copper lugs have 80% greater wall thicknesses and tin plating for corrosion resistance, these copper lugs will stand the test of time.



Wire Size (AWG)	For Stud Size	Straight				90° Angle				Straight Heavy-Duty		
		Length	Standard	Corrosion Resistant	Pkg. Qty.	Standard	Pkg. Qty.	Corrosion Resistant	Pkg. Qty.	Length	Standard	Pkg. Qty.
8	#10	1.31"	38A17041	38A17038	10	38A17241	10	38A17238	10	1.22"	38A11072	10
8	1/4"	1.17"	38A11018	38A17018	10	38A11218	10	38A17218	10	1.22"	38A11060	10
8	5/16"	1.31"	38A11020	38A17039	10	38A11220	10	38A17239	10	1.38"	38A11061	10
8	3/8"	1.31"	38A11019	38A17019	10	38A11219	10	38A17219	10	1.38"	38A11062	10
8	1/2"	1.31"	38A17042	38A17034	10	38A17242	10	38A17234	10	1.54"	38A11063	10
6	#10	1.27"	38A11013	38A17013	10	38A11213	10	38A17213	5	1.26"	38A11044	10
6	1/4"	1.27"	38A11014	38A17014	10	38A11214	10	38A17214	5	1.26"	38A11045	10
6	5/16"	1.41"	38A11017	38A17017	10	38A11217	10	38A17217	5	1.42"	38A11046	10
6	3/8"	1.41"	38A11016	38A17016	10	38A11216	10	38A17216	5	1.42"	38A11047	10
6	1/2"	1.55"	38A11015	38A17015	10	38A11215	10	38A17215	5	1.54"	38A11064	10
4	#10	1.5"	38A11071	38A17040	10	38A11271	5	38A17240	5	1.50"	38A11073	10
4	1/4"	1.5"	38A11010	38A17010	10	38A11210	5	38A17210	5	1.50"	38A11040	10
4	5/16"	1.5"	38A11012	38A17012	10	38A11212	5	38A17212	5	1.50"	38A11042	10
4	3/8"	1.53"	38A11011	38A17011	10	38A11211	5	38A17211	5	1.50"	38A11041	10
4	1/2"	1.68"	38A11009	38A17009	10	38A11209	5	38A17209	5	1.63"	38A11043	10
2	1/4"	1.62"	38A11006	38A17006	10	38A11206	5	38A17206	5	1.85"	38A11065	5
2	5/16"	1.62"	38A11008	38A17008	10	38A11208	5	38A17208	5	1.85"	38A11039	5
2	3/8"	1.62"	38A11007	38A17007	10	38A11207	5	38A17207	5	2.01"	38A11038	5
2	1/2"	1.75"	38A11005	38A17005	10	38A11205	5	38A17205	5	2.21"	38A11037	5
1	1/4"	1.72"	38A11002	38A17002	10	38A11202	5	38A17202	5	1.85"	38A11066	5
1	5/16"	1.72"	38A11004	38A17004	10	38A11204	5	38A17204	5	1.85"	38A11036	5
1	3/8"	1.72"	38A11003	38A17003	10	38A11203	5	38A17203	5	2.01"	38A11035	5
1	1/2"	1.83"	38A11001	38A17001	10	38A11201	5	38A17201	5	2.21"	38A11034	5
1/0	1/4"	1.83"	38A11022	38A17022	10	38A11222	5	38A17222	5	2.04"	38A11074	5
1/0	5/16"	1.83"	38A11024	38A17024	10	38A11224	5	38A17224	5	2.04"	38A11050	5
1/0	3/8"	1.83"	38A11023	38A17023	10	38A11223	5	38A17223	5	2.04"	38A11049	5
1/0	1/2"	1.9"	38A11021	38A17021	10	38A11221	5	38A17221	5	2.04"	38A11048	5
2/0	1/4"	2.06"	38A11025	38A17025	10	38A11225	5	38A17225	5	2.40"	38A11052	5
2/0	5/16"	2.06"	38A11028	38A17028	10	38A11228	5	38A17228	5	2.40"	38A11054	5
2/0	3/8"	2.06"	38A11027	38A17027	10	38A11227	5	38A17227	5	2.40"	38A11053	5
2/0	1/2"	2.06"	38A11026	38A17026	5	38A11226	5	38A17226	5	2.40"	38A11051	5
3/0	1/4"	2.16"	38A11068	38A17035	5	38A11268	5	38A17235	5	2.46"	38A11075	5
3/0	5/16"	2.16"	38A11031	38A17031	5	38A11231	5	38A17231	5	2.46"	38A11067	5
3/0	3/8"	2.16"	38A11030	38A17030	5	38A11230	5	38A17230	5	2.46"	38A11056	5
3/0	1/2"	2.16"	38A11029	38A17029	5	38A11229	5	38A17229	5	2.46"	38A11055	5
4/0	1/4"	2.39"	38A11069	38A17036	5	38A11269	5	38A17236	5	2.50"	38A11076	1
4/0	5/16"	2.39"	38A11070	38A17037	5	38A11270	5	38A17237	5	2.50"	38A11059	1
4/0	3/8"	2.39"	38A11033	38A17033	5	38A11233	5	38A17233	5	2.50"	38A11058	1
4/0	1/2"	2.39"	38A11032	38A17032	5	38A11232	5	38A17232	5	2.50"	38A11057	1

Battery Terminal Kit

All the battery parts needed for diesels to pick-up trucks - no crimper necessary.

Comes in a large metal box, 18"w x 12"d x 3"h.



Part #
66C10460

Kit Contains	Description	Qty.	Kit Contains	Description	Qty.
38A12006	2/0 Ga. Positive Battery Terminals	5	38A14011	Replacement Battery Term. Bolts and Nuts	25
38A12005	2/0 Ga. Negative Battery Terminals	5	19A15023	3/4" Red HD Adhesive-Lined Shrink Tube	1
38A12010	4 Ga. Positive Battery Terminals	3	19A15021	3/4" Black HD Adhesive-Lined Shrink Tube	1
38A12009	4 Ga. Negative Battery Terminals	2	38A16002	2/0 Ga. Orange Solder Slugs	10
38A11027	2/0 Ga. 3/8" Stud Copper Lugs	10	38A16007	4 Ga. Silver Solder Slugs	10
38A11026	2/0 Ga. 1/2" Stud Copper Lugs	10	66C11685	2 oz. Tube, Corr. Preventative Compound	1
38A11011	4 Ga. 3/8" Stud Copper Lugs	10			

Battery Terminals & Battery Terminal and Copper Lug Covers

Crimp or Solder Top Post Battery Terminals

The tin plating on these copper battery terminals provides corrosion resistance, making them last longer. They have 100% conductivity compared to standard copper battery terminals which only have 32% conductivity. Feature wire size, polarity markings, and color coding for crimping. Include nut and bolt. Can be crimped and soldered.

Use **flag** battery terminals to connect several batteries together. Use **left** and **right elbow** battery terminals to fit in confined spaces.

Sold individually.



Polarity	(A)Straight	(B)Flag	(C)Left Elbow	(D)Right Elbow
6 Ga.				
Negative	38A12053	-----	38A12059	38A12061
Positive	38A12054	-----	38A12079	38A12062
4 Ga.				
Negative	38A12009	-----	38A12063	38A12065
Positive	38A12010	-----	38A12064	38A12067
2 Ga.				
Negative	-----	38A12057	38A12068	38A12060
Positive	-----	38A12058	38A12069	38A12070
1 Ga.				
Negative	38A12003	38A12055	38A12071	38A12073
Positive	38A12004	38A12056	38A12072	38A12074

Polarity	(A)Straight	(B)Flag	(C)Left Elbow	(D)Right Elbow
1/0 Ga.				
Negative	38A12001	38A12013	38A12049	38A12047
Positive	38A12002	38A12014	38A12050	38A12048
2/0 Ga.				
Negative	38A12005	38A12015	38A12016	38A12017
Positive	38A12006	38A12018	38A12019	38A12020
3/0 Ga.				
Negative	38A12007	38A12021	38A12022	38A12023
Positive	38A12008	38A12024	38A12025	38A12026
4/0 Ga.				
Negative	38A12011	38A12027	38A12075	38A12077
Positive	38A12012	38A12028	38A12076	38A12078

Military Style and Marine Battery Terminals

If **military** battery terminals are good enough for the military, they can stand up to the toughest of applications. Features an extra long 3/8" diameter bolt that's ideal for mounting lugs. Also has a 5/16" diameter short bolt. Clearly marked positive and negative.

Marine battery terminals withstand harsh seas. They allow you to easily connect and disconnect lugs from your battery with the spin of a wing nut. Positive has a 3/8" wing nut and the negative has a 5/16" wing nut.

Standard terminals are made of lead.

Wire Size (AWG)	Polarity	Standard
Military Style (Sold individually)		
8-4/0	Negative	38A12034
8-4/0	Positive	38A12035

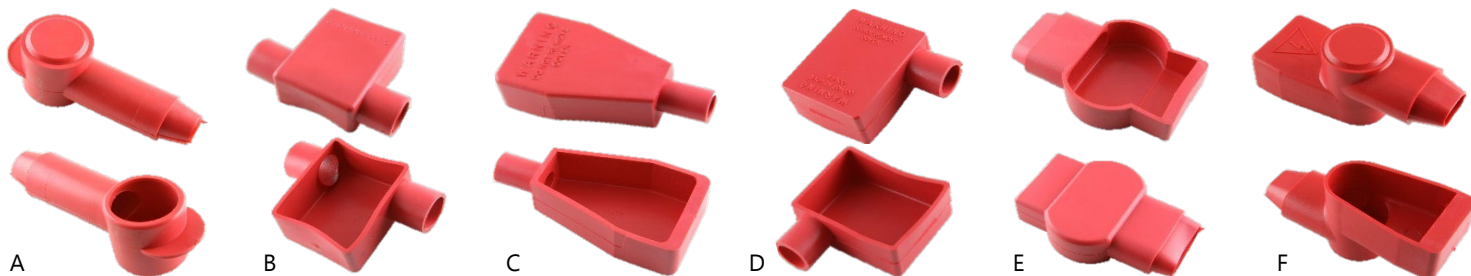


Wire Size (AWG)	Polarity	Standard
Marine (Sold in packages of 5)		
8-4/0	Negative	38A12037
8-4/0	Positive	38A12036



Covers for Copper Lugs and Battery Terminals

Flexible vinyl covers protect copper lugs and battery terminals from short circuiting and contaminants. Color coded for easy identification of positive and negative terminals. Max temperature 194°F. Sold individually. Many other styles of boots are available through special order.



Wire Size (AWG)	Black	Red
(A)Copper Lug Covers		
18-10	66C11917	66C11918
8-2	66C11920	66C11921
8-2	38A15030	38A15029
6-1	38A15018	38A15017
2-1/0	38A15020	38A15019
2/0	38A15022	38A15021
3/0-4/0	38A15024	38A15023

Wire Size (AWG)	Black	Red
(B)Flag Battery Terminal Covers		
4/0	38A15007	38A15010
(C)Copper Battery Terminal Covers		
8-6	38A15025	38A15026
4-1	38A15003	38A15004
1/0	38A15027	38A15028
2/0	38A15001	38A15002
3/0-4/0	38A15005	38A15006

Wire Size (AWG)	Black	Red
(D)Elbow Battery Terminal Covers		
3/0 Left	38A15008	38A15011
3/0 Right	38A15009	38A15012
(E)Military Battery Terminal Covers		
8-4/0	38A15013	38A15014
(F)Marine Battery Terminal Covers		
8-4/0	38A15015	38A15016

Battery Terminals & Battery Connectors

No-Crimp Battery Terminals

No crimping tool is needed to attach your cable to these battery terminals - simply tighten the bolts. They also offer a wide wire size range to fit more applications. Sold individually.

Standard terminals are made of lead.

One-way terminals can be used as positive and negative terminals.

Three-way terminals allow you to insert your cable from all three directions for added flexibility of installation.



Wire Size Range (AWG)	Polarity	Standard
(A)One-Way, Top Post		
6-1	Universal	38A12029
2-4/0	Universal	38A12030
(B)Three-Way, Top Post		
2-4/0	Positive	38A12031
2-4/0	Negative	38A12032
(C)Side-Mount		
6-1	Universal	38A12033

Adapters and Replacement Fasteners for Battery Terminals

	Description	Thread Size	Pkg. Qty.
A	(A)Battery Terminal Bolt and Nut, 1" Thread Length	5/16"-18	38A14011 25
B	(B)Brass Standard Top Post Adapter, Replaces Standard Battery Bolt Nut for Accessories	5/16"-18	38A14006 1
C	(C)Side Mount Standard Top Post Adapter (Positive)	3/8"-16	38A14003 1
D	(C)Side Mount Standard Top Post Adapter (Negative)	3/8"-16	38A14004 1
E	(D)Side Mount Replacement Bolt with Accessory Bolt	3/8"-16 & 3/8"-24	38A14005 1
F	(E)Side Mount Long Replacement Bolt with Accessory Bolt	3/8"-16	38A14007 1
G	(F)Side Mount Battery Terminal Bolt	3/8"-16	38A14008 10
	(G)Extra-Long Side Mount Battery Terminal Bolt	3/8"-16	38A14009 10

Solder Slugs

Soldering allows you to make a connection without needing an expensive crimp tool. Select the slug that matches your wire size. Drop the slug in your battery terminal or copper lug, heat, then insert your stripped wire.

Wire Size (AWG)	Slug Color		Qty.
6	Gray	38A16008	10
4	Silver	38A16007	10
2	Green	38A16006	10
1	Red	38A16005	10
1/0	Gray	38A16001	10
2/0	Orange	38A16002	10
3/0	Purple	38A16003	10
4/0	Yellow	38A16004	10

Seated Threaded Stud Type Battery Terminals

Use with threaded (stud type) battery terminals. Made of tin-plated copper. Features wire size and polarity markings. Can be crimped and soldered.

Use **two-sided** terminals to connect several batteries together. Sold individually.

	Wire Size (AWG)	(A) Standard	(B) Two-Sided
A	4 Ga.	38A13001	-----
	2-1 Ga.	38A13002	-----
B	1/0 Ga.	38A13003	38A13007
	2/0 Ga.	38A13004	38A13008
	3/0 Ga.	38A13005	38A13009
	4/0 Ga.	38A13006	38A13010
C	(C)Stainless Steel Nut for Seated Threaded Stud Type Batteries, 3/8"-16, Pkg. of 25, Part #38A14010		

2-Pole Battery Connectors



The housings are interchangeable. Two housings fit together, like a handshake. Two contacts are needed for each housing. Use the dust covers to cover the open connection when not in use.

Wire Size (AWG)	Color	Description	
50 Amp Series			
6	Gray	1 Housing and 2 Contacts	66C10422
6	Black	1 Dust Cover	66C10419
175 Amp Series			
4	Gray	1 Housing and 2 Contacts	66C10427
4		1 Contact only	66C10441
2	Gray	1 Housing and 2 Contacts	66C10426
1/0	Gray	1 Housing and 2 Contacts	66C10425
1/0	Red	1 Housing and 2 Contacts	66C10428
-----	Gray	1 Housing	66C10437
-----	Blue	1 Housing	66C10438
-----	Yellow	1 Housing	66C10439
-----	Red	1 Housing	66C10442
1/0		1 Contact only	66C10440

Wire Size (AWG)	Color	Description	
175 Amp Series (Cont.)			
-----	Black	1 Dust Cover	66C10420
350 Amp Series			
2/0	Gray	1 Housing and 2 Contacts	66C10423
3/0	Red	1 Housing and 2 Contacts	66C10424
-----	Gray	1 Housing	66C10429
-----	Blue	1 Housing	66C10432
-----	Red	1 Housing	66C10433
-----	Yellow	1 Housing	66C10434
-----	Green	1 Housing	66C10436
2/0	-----	1 Contact only	66C10430
3/0	-----	1 Contact only	66C10435
4/0		1 Contact only	66C10431
-----	Black	1 Dust Cover	66C10421

Powerbolts, Battery Terminal Protectors & Truck Terminal Blocks

Through-Wall Powerbolts

Powerbolts are a safe way to pass electrical current through a barrier. Handles 0-3/8" wall thickness and is 3" long. Choose red or black nylon base and weatherproof rubber cover. 440 amps continuous at 12 VDC.



Cover (Included)

Panel Thickness	Red	Black
3/8"-16 Post		
0"-3/8"	38A18002	38A18001

Jumpstart Connector

Create a convenient external point to jumpstart your vehicle or equipment. Simply mount the bracket to any flat surface for ease of access. 350 amps max at 12VDC. They are 5"X3"X4" and include red and black rubber boots.



Part # 38A18003

Powerposts

A compact design for small areas, the 8 point powerpost is used to get power to several different devices. It has a 3/8" stainless steel input power post and 8 output positions with #8-32 stainless steel screws. The base is glass filled nylon.

Color	
Red	66C11372
Black	66C11371



Quick Disconnect Power Feed

Fast connections to power multiple devices. Simply plug 1/4" female quick disconnects to male common feed nickel plated brass tabs. 20 amps max per contact tab, 55 amps max per tier, and 48 VDC max. Red insulator included.



Number of Feeds	Amps	Part Number
10	55	40A11014
20	110	40A11015
30	120	40A11016

Battery Jumper Terminals and Studs

Make easily accessible battery connections, on the inside and outside of the vehicle. Solid brass posts that can be used separately or in pairs. Contact posts 13/16" diameter and 1 1/8" long. Accepts 6-48 vdc.



Polarity	Color	Jumper with Cap	Cap Only
Positive	Red	17A12050	17A12347
Negative	Black	17A12030	17A12345

Smart Battery Isolator

Smart battery isolators are hybrid electronic/electromechanical relays that prevent the auxiliary battery from draining the starting battery.



Amps	Volts	Terminal Studs	
85	9-16	5/16"-24"	17A13008
200	9-16	5/16"-24"	17A12073

Battery Isolator

Battery isolators are used on vehicles with two batteries. They isolate the batteries to prevent one from draining into the other. Also both batteries can be charged at the same time from one source.



17A12275



17A12271



17A12275

Amps	Stud sizes	Mounting Holes	Manufacturer	Manufacturer #	Size	
90	(3) 1/4", (1) #10	(4) 9/32"	Cole Hersee	48092	6 1/2" L x 3 1/4" W x 2 13/16" H	17A12275
140	(3) 5/16", (1) #10	(4) 9/32"	Cole Hersee	48122	6" L x 4 3/16" W x 3 11/32" H	17A12271
200	(3) 5/16", (1) #10	(4) 9/32"	Cole Hersee	48162	8 1/2" L x 4 3/16" W x 3 13/32" H	17A12045

Truck Multi-Terminal Blocks

Terminal block contacts are 10-32 threads and a 1/4" mounting hole.

Number of Terminals	Overall Length	OEM #	
3	3 3/4"	B20303	66C11651
4	4 1/2"	B20304	66C11656
5	5 1/4"	B20305	66C11657

Number of Terminals	Overall Length	OEM #	
6	6"	B20306	66C11658
7	5 1/4"	B20307	66C11659
8	7 1/2"	B20308	66C11660



Truck Terminal Blocks

Description	Color	OEM #	
Insulated Mounting Bracket, 250 amps, 3/8-16 Thread Stud with Nut	Black	BE20301	66C11637
Insulated Mounting Bracket, 250 amps, 3/8-16 Thread Stud with Nut	Red	-----	31A32744
Insulated Mounting Bracket, 250 amps, 2.6" Overall Height, 3/8-16 Thread Stud with Nut	Black	BE20300	66C11639



66C11637
Surface Mount



66C11639
Thru Wall

Packard Weather Pack Connectors

Packard Weather Pack Series



Pin



Socket



Seals

Use these round pin and socket terminals, housings, and seals to make connections that can handle harsh environments. Each connection requires a male and female terminal, a seal for each terminal, and a pin and socket housing.

Select **terminals** that match your wire size. All terminals work with all housings, regardless of wire size. Terminals require two crimps (terminal to wire strands, terminal to seal and wire insulation). A proper crimping tool is required. For heavier usage, use a tool that performs both crimps at the same time, such as #37A11004 for 22-14 gauge. For 12 gauge use the standard two crimp tool #37A11010. For less frequent crimping, we recommend our tool #37A11019. For production, use #37A21022 for 22-18 gauge and #37A21005 for 16-12 gauge. Terminal removal tool #24A15007.

Select a **seal** that matches your wire size.

Now select a **housing** that offers the number of connections you would like to make.

Use the **cavity plugs** when you have an extra circuit in your housing that is not in use. It prevents corrosion from entering the electrical connection.

Terminals

Wire Size (AWG)	Pin			Socket		
	Mfg. #		Pkg. Qty.	Mfg. #		Pkg. Qty.
22	12089307	12A11004	25	12020801	12A11008	25
20-18	12089040	12A11003	25	12089188	12A11007	25
16-14	12124582	12A11002	25	12124580	12A11006	25
12	12124587	12A11001	25	12124581	12A11005	25

Seals

Wire Size (AWG)	Color	Mfg. #		Pkg. Qty.
22-20	Purple	12089679	12A11027	50
22	Red	12015899	12A11028	50
20-14	Green	12015323	12A11026	50
20-16	Tan	12041351	12A11029	50
16-14	Gray	12010293	12A11025	50
12-10	Blue	12015193	12A11024	50

Plugs

22-12	Green	12010300	12A11023	50
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Housings



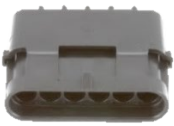
12A11010
Socket



12A11014
Socket



12A11019
Pin



12A11022
Pin



12A18003
Pin
(Through fire wall)

Circuits	Pin			Socket		
	Mfg. #		Pkg. Qty.	Mfg. #		Pkg. Qty.
1-Way	12010996	12A11016	10	12015791	12A11009	10
2-Way	12010973	12A11017	10	12015792	12A11010	10
3-Way	12010717	12A11018	10	12015793	12A11011	10
4-Way	12010974	12A11019	5	12015797	12A11012	5
4-Way	12015024	12A11020	5	12015798	12A11013	5
5-Way	12065158	12A11021	1	12034342	12A11014	1
6-Way	12010975	12A11022	5	12015799	12A11015	5
22-Way	15492521	12A11030*	1	15492531	12A11031*	1

*Use Wire Organizer #12010852, Part #12A11032, Pkg. Qty. 4

Packard Weather Pack Kit



Part #12A18002

Unsure of the Weather Pack item that you need or want to create your own connection? This kit contains the most common terminals, seals, and housings so you can simply match up what you have with what's in the kit. This kit contains 13 different Weather Pack terminals, seals, and housings, over 200 pieces, all contained in a large metal box, 18"w x 12"d x 3"h.

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
Housings					
12A11016	1-Way Circuit, Pin	10	12A11007	20-18 Ga., Socket	25
12A11009	1-Way Circuit, Socket	10	12A11003	20-18 Ga., Pin	25
12A11017	2-Way Circuit, Pin	10	12A11006	16-14 Ga., Socket	25
12A11010	2-Way Circuit, Socket	10	12A11002	16-14 Ga., Pin	25
12A11018	3-Way Circuit, Pin	10	Seals		
12A11011	3-Way Circuit, Socket	10	12A11026	20-14 Ga., Green Seal	25
12A11019	4-Way Circuit, Pin	10	Terminal Removal Tool		
12A11012	4-Way Circuit, Socket	10	37A11003		1

Packard 56 & 59 Series



Male Terminal



Female Terminal



Male Housing



Female Housing

Terminals require two crimps (terminal to wire strands, terminal to wire insulation). A proper crimping tool is required. For heavier usage, use a tool that performs both crimps at the same time. We recommend our #37A11002, ratcheting tool, for 20-14 gauge or our #37A11001 economical tool, for 20-10 gauge. Use removal tool #37A11013.

56 Series Terminals

Wire Size (AWG)	Mfg. #	Male	Pkg. Qty.	Mfg. #	Female	Pkg. Qty.
20-18	2965481	12A16003	25	2962508	12A16006	25
18	-----	-----	---	2965510	12A16009	25
16-14	2971962	12A16002	25	2962447	12A16005	25
16-14	-----	-----	25	2965867	12A16010	25
12-10	8917283	12A16001	25	-----	-----	----
12	2971859	12A16011	25	2989877	12A16019	25
12	-----	-----	----	2965143	12A16004	25

59 Series Terminals

Size (AWG)	Mfg. #	Male	Pkg. Qty.	Mfg. #	Female	Pkg. Qty.
16-14	-----	-----	----	2973216	12A17001	25

56 Series Housings

Circuits	Mfg. #	Male	Pkg. Qty.	Mfg. #	Female	Pkg. Qty.
1-Way	2984528	12A16007	10	2977253	12A16008	10
2-Way	2984883	12A16018	10	-----	-----	----
3-Way	2984678	12A16017	10	2984378	12A16016	10
4-Way	6294544	12A16021	10	2977048	12A16015	10
5-Way	3138080	12A16020	10	2973422	12A16012	10
6-Way	2977042	12A16013	10	2977044	12A16014	10

Packard Corrugated Loom Clips

Type	Inside Conduit ID	Mfg. #		Pkg. Qty.
Outlet Fitting	0.500	8905793	12A16022	25
Conduit Clip	0.413	8911378	12A16024	25
Rosebud Clip	0.350	8911169	12A16023	25

Packard Tools

Weather Pack and 56-58 Series terminals often require different crimping tools. The more you know about what will be crimped, the easier it is to find a tool. The ratchet style design allows you to make easier crimps with less effort.

Use a **quick single motion** tool that makes all the crimps in one motion for higher volumes.

The **standard two crimp** tools crimp in two separate motions. One motion to crimp the terminal and one motion to crimp the seal.

Terminal Release Tools

Releases **Weather Pack**:

- 24-12 gauge



Part # 37A11003

Releases **Metri-Pack**:

- 150, 280, and 630 series,
- GT 150 and GT280, series, 22-10 gauge



Part # 37A11012

Features: 0.035" tip width

Packard # 12094429

Releases **Weather Pack**:

- 56, 58, and 59 series,
- 20-10 gauge



Releases **Metri-Pack**:

- 480, 630, and 800, series, 20-10 gauge

Part # 37A11013

Features: 0.090" tip width

Packard # 12094430

Releases **Weather Pack**:

- 24-12 gauge

Features:

- Heavy-duty tool



Part # 37A11021

Releases **Metri-Pack**:

- 150, 280, and 630 series,
- GT 150 and GT280, series, 22-10 gauge



Features: Heavy Duty Tool

Part # 37A11022

Releases **Packard**:

- 56, 58, and 59 series,
- 20-10 gauge



Releases **Metri-Pack**:

- 480, 630, and 800, series, 20-10 gauge

Features: Heavy Duty Tool

Part # 37A11023

Weather Pack Crimping Tools

Crimps **Weather Pack**:

- 20-14 gauge

Crimps **Metri-Pack**:

- 280 series, sealed,
- 20-14 gauge (must remove terminal locator on tool)



Features:

- OEM ratcheting tool
- Quick single motion

Part # 37A11004

Packard # 12014254

Crimps **Weather Pack**:

- 22-14 gauge

Crimps **Metri-Pack**:

- 150 series,
- 22-14 gauge
- 280 series,
- 22-14 gauge



Features:

- Standard two crimp
- Non-ratcheting tool

Part # 37A11019

Crimps **Weather Pack**:

- 12 gauge

Crimps **Metri-Pack**:

- 280 series, sealed
- 12-10 gauge

Crimps **Packard**:

- Open barrel rings,
- 12-10 gauge



Features:

- Standard two crimp
- Ratcheting tool

Part # 37A11016

Packard # 15155975

Crimps **Packard**:

- 56, 58, and 59 series,
- 12-10 gauge

- Open barrel rings,
- 14-10 gauge

Crimps **Metri-Pack**:

- 280, 480, and 63 series,
- unsealed, 16-12 gauge

Crimps **Heat Shrink**:

- 22-10 gauge heat shrink

Features:

- Standard two crimp
- OEM ratcheting tool

Part # 37A11009

Packard # 12085115



Crimps **Packard**:

- 56, 58, and 59 series,
- 20-14 gauge

- 56, 58, and 59 series,
- 12-10 gauge (core wings only)

- 56 series, 20-10 gauge, splice clips

- Open barrel rings, unsealed,
- 20-14 gauge, up to 0.032" thick

- Wedge base lamp sockets, 20-14 gauge



Crimps **Pack-Con**:

- Series I & III, unsealed, 20-14 gauge

- Series II, female, unsealed, 12-10 gauge

Crimps **Metri-Pack**:

- 480 series unsealed, 16-14 gauge

- 480 pull to seat series, unsealed, 16-14 gauge

- 630 series, unsealed, 16-14 gauge

- 630 pull to seat series, 16-14 gauge, unsealed

- 630 series, unsealed, 12-10 gauge (core wings only)

Features:

- Standard two crimp
- OEM non-ratcheting tool

Part # 37A11001

Packard # 6285847

Crimps **Packard**:

- 56, 58 and 59 series, 20-14 Gauge

- Open barrel rings, unsealed,
- 20-14 gauge, up to 0.032" thick

- Wedge base lamp sockets, 20-14 gauge



Crimps **Pack-Con**:

- Series I & III, unsealed
- 20-14 Gauge

Features:

- Quick single motion
- OEM ratcheting tool

Part # 37A11002

Packard # 8913440

Crimps **Weather Pack**:

- 12 gauge

Crimps **Metri-Pack**:

- 280 series, sealed,
- 12 gauge

- 480 series, sealed, 18-14 gauge

- 480 series, unsealed, 16-14 gauge

- 480 pull to seat series, unsealed, 18-14 gauge

- 150, 480, and 630 series (crimps seals only)

- 630 series, sealed 18-14 gauge

Features:

- OEM standard two crimp

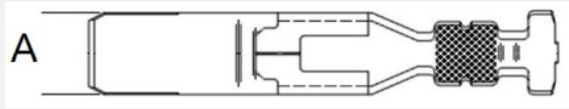
Part # 37A11010

Packard # 12085270



Packard Metri-Pack

About Packard Metri-Pack Terminals, Seals, and Housings



Metri-Pack Series	Male Tab Width (A)
150	1.5 mm
280	2.8 mm
480	4.8 mm
630	6.3 mm
800	8.0 mm

Metri-Pack terminals are different from Weather Pack terminals in that the male terminals have flat tabs, similar to quick-disconnects, rather than Weather Pack's round pins.

The **Metri-Pack series** can easily be determined by measuring the width of the male flat tab (see table). Example: If the male tab measures 1.5 mm, that is the 150 Series.

Sealed vs Unsealed Terminals - Sealed Metri-Pack terminals can be identified by the seal attached at the wire end of the terminal. Sealed terminals require a **seal** for each terminal. Select a seal that matches your wire size and series. Unsealed terminals require unsealed housings.

Use **cavity plugs** when you have an extra circuit in your sealed housing that is not in use.

A proper **crimping tool** is required. Terminals require two crimps (terminal to wire strands, terminal to wire insulation).

For **pull-to-seat** terminals, the wire is inserted through the back of the housing, out the front, wire is stripped and double crimped onto the terminal. The terminal is pulled back through until it seats in the housing, making a secure connection.

Metri-Pack Kit



Unsure of the Metri-Pack item you need? This kit contains the most common terminals and seals so you can simply match up what you have with what's in the kit. No need to buy a new harness, just replace the corroded terminal. This kit contains 12 different Metri-Pack terminals and seals, 350 pieces, including 150, 280 and 480 Series. It is all contained in a small plastic box, 11"w x 6 3/4"d x 1 3/4"h. Use **#37A11019** to crimp terminals (not included).

Part #12A18001

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
150 Series			280 Series		
12048074	18-16 Ga., Sealed, Female Terminals	12A12006 25	12066214	16-14 Ga., Unsealed, Female Terminals	12A13002 25
12045773	18-16 Ga., Sealed, Male Terminals	12A12008 25	12020116	16-14 Ga., Unsealed, Male Terminals	12A13006 25
12103881	18-16 Ga., Unsealed, Female Terminals	12A12002 25	480 Series		
12047581	18-16 Ga., Unsealed, Male Terminals	12A12004 25	12124304	16-14 Ga., Unsealed, Female Terminals	12A14002 25
12047767	18-16 Ga., Unsealed, Female Terminals	12A12001 25	Seals		
280 Series			Part #	Series	Description
12129493	14-12 Ga., Sealed, Female Terminals	12A13010 25	15324973	150	18-16 Ga., Red Seals
12129497	14-12 Ga., Sealed Male Terminals	12A13014 25	15324982	280	20-14 Ga., Green Seals
					12A12022 50
					12A11026 50

Metri-Pack 150 Series, Sealed Kit



This kit contains Metri-Pack 150 series housings, terminals, seals, (CPA) housing locks, (TPA) wire organizers, and a removal tool. There are 697 pieces in a large metal box, 18"w x 12"d x 3"h. Use **#37A11015/Packard #12155975** to crimp terminals (not included).

Part #12A18003

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.	(Cont.)	Description	Qty.
Housings			Terminals			(CPA) Housing Locks		
12052641	2-Way Female	12A12025 10	12084200	22-20 Ga., Female	12A12007 50	12020833	Housing Locks	12A12097 10
12162000	2-Way Male	12A12026 10	12077628	22-20 Ga., Male	12A12009 50	(TPA) Wire Organizers		
12110293	3-Way Female	12A12027 6	12048074	18-16 Ga., Female	12A12006 50	12052634	2-Way Wire Org.	12A12039 20
12129615	3-Way Male	12A12028 6	12045773	18-16 Ga., Male	12A12008 50	12052845	3-Way Wire Org.	12A12040 12
12162144	4-Way Female	12A12029 6	Seals			12047948	4-Way Wire Org.	12A12038 12
12162102	4-Way Male	12A12030 6	15324974	22 Ga., Blue	12A12014 100	12052850	6-Way Wire Org.	12A12041 12
12052848	6-Way Female	12A12031 6	15324973	20-16 Ga., Dk.Red	12A12015 50	12066304	8-Way Wire Org.	12A12042 8
12124107	6-Way Male	12A12032 6	15324976	20 Ga., White	12A12016 100	12047936	8-Way Wire Org.	12A12037 8
12047937	8-Way Female	12A12033 4	Cavity Plugs			Removal Tool		
12047931	8-Way Male	12A12034 4	12059168	Dk. Red	12A12010 30	12094429	Removal Tool	37A11012 1

Metri-Pack 280 Series, Sealed Kit

This kit contains Metri-Pack 280 series housings, terminals, seals, (CPA) housing locks, (TPA) wire organizers, and a removal tool. There are 1011 pieces in a large metal box, 18" w x 12" d x 3" h. To crimp terminals 20-14 gauge use #37A11015/Packard #12155975 (not included) and for 12 gauge use #37A11010/Packard #12085270 (not included).



Part #12A18004

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.	(Cont.)	Description	Qty.			
Housings			12077411	18-16 Ga., Female	12A13011	50	(CPA) Housing Locks				
12065172	1-Way Female	12A13035	5	12048159	18-16 Ga., Male	12A13015	50	12020833	Housing Lock	12A12097	10
12065171	1-Way Male	12A13036	5	12129493	14-12 Ga., Female	12A13010	50	(TPA) Wire Organizers			
15300027	2-Way Female	12A13037	5	12129497	14-12 Ga., Male	12A13014	50	12065249	1-Way Wire Org.	12A13045	10
15300002	2-Way Male	12A13038	5	12077413	12 Ga., Female	12A13009	50	15300014	2-Way Wire Org.	12A13048	10
12040977	3-Way Female	12A13039	4	12048254	12 Ga., Male	12A13013	50	12034145	3-Way Wire Org.	12A13047	4
15300003	3-Way Male	12A13040	4	Seals			15300016	4-Way Wire Org.	12A13050	3	
12129565	4-Way Female	12A13041	3	15324983	22 Ga., Dk. Red	12A11028	100	15324857	5-Way Wire Org.	12A13052	3
12129600	4-Way Male	12A13042	3	15324985	22-20 Ga., Purple	12A11027	100	15300015	3-Way Wire Org.	12A13049	4
12084891	5-Way Female	12A13043	3	15324982	18-16 Ga., Green	12A11026	100	15324063	4-Way Wire Org.	12A13051	3
12186400	5-Way Male	12A13044	3	15324980	14 Ga., Gray	12A11025	100	12084673	5-Way Wire Org.	12A13046	3
Terminals			15324981	12 Ga., Blue	12A11024	100	Removal Tool				
12084201	22-20 Ga., Female	12A13012	50	Cavity Plugs			12094429	Removal Tool	37A11012	1	
12124977	22-20 Ga., Male	12A13016	50	12010300	Green	12A11023	20				

Metri-Pack 480 Series, Sealed Kit

This kit contains Metri-Pack 480 series housings, terminals, seals, (CPA) housing locks, (TPA) wire organizers, and plugs. There are 261 pieces in a small metal box, 13 3/8" w x 9 1/4" d x 2" h. Use #37A11010/Packard #12085270 (not included) to crimp 18-14 gauge terminals and #37A11008/Packard #12071687 (not included) for 12-10 gauge terminals. Use release tool #37A11013/Packard #12094430 (not included).



Part #12A18005

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.	(Cont.)	Description	Qty.			
Housings			Terminals			Cavity Plugs					
12052613	2-Way Female	12A14029	4	12065197	12 Ga., Male	12A14011	25	35232480	Gray	12A14013	15
12065863	2-Way Male	12A14030	4	12052172	10 Ga., Male	12A14010	25	(CPA) Housing Locks			
Terminals			Seals			(TPA) Wire Organizers					
12048451	16-14 Ga., Female	12A14008	25	12048441	20-14 Ga., White	12A14017	25	12020833	Housing Lock	12A12097	4
12065196	16-14 Ga., Male	12A14012	25	15324989	14-12 Ga., Red	12A14016	25	12059897	2-Way Wire Org.	12A14031	8
12052139	12-10 Ga., Female	12A14007	25	12048443	12-10 Ga., Purple	12A14015	25	Removal Tool			
				12034170	10 Ga., Orange	12A14014	25	12094430	Removal Tool	37A11013	1

Metri-Pack GT 150 Series, Sealed Kit

This kit contains Metri-Pack GT 150 series housings, terminals, seals, cavity plugs and (CPA) housing locks.. There are 362 pieces in a small metal box, 13 3/8" w x 9 1/4" d x 2" h. Use #37A11017/Packard #15359995 (not included) to crimp terminals. Use #37A11012/Packard #12094429 (not included), and #37A11013/Packard #12094430 (not included) to release terminals from the housings.



Part #12A18006

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.	(Cont.)	Description	Qty.			
Housings			Housings			Seals					
13510085	2-Way Female	12A25008	4	13519051	5-Way Female	12A25014	4	15366021	22-20 Ga., White	12A25005	50
13510099	2-Way Male	12A25009	4	13519053	5-Way Male	12A25015	4	15366060	18-16 Ga., Blue	12A25006	50
13519047	3-Way Female	12A25010	4	Terminals			Cavity Plugs				
15326813	3-Way Male	12A25011	4	12191818	22-20 Ga., Female	12A25001	50	15305171	Green	12A25007	20
15487756	4-Way Female	12A25012	4	15326268	22-20 Ga., Male	12A25002	50	(CPA) Housing Locks			
15487755	4-Way Male	12A25013	4	12191819	18-16 Ga., Female	12A25003	50	15317832	Housing Lock	12A25028	10
				15326269	18-16 Ga., Male	12A25004	50				

Metri-Pack GT 280 Series, Sealed Kit

This kit contains Metri-Pack GT 280 series housings, terminals, seals, (CPA) housing locks, and plugs. There are 362 pieces in a small metal box, 13 3/8" w x 9 1/4" d x 2" h. Use #37A11017/Packard #15359995 (not included) to crimp terminals. Use release tools #37A11012/Packard #12094429 and #37A11013/Packard #12094430 (not included) to release terminals from the housings.



Part #12A18007

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.	(Cont.)	Description	Qty.			
Housings			Housings			Seals					
13518845	2-Way Female	12A26013	4	13521463	5-Way Female	12A26019	4	15366065	22-20 Ga., Orange	12A26008	50
15326678	2-Way Male	12A26014	4	15326647	5-Way Male	12A26020	4	15366066	18-16 Ga., Yellow	12A26009	50
15326614	3-Way Female	12A26015	4	Terminals			Cavity Plugs				
15326623	3-Way Male	12A26016	4	15304718	22-20 Ga., Female	12A26001	50	15305170	White	12A26012	20
13521459	4-Way Female	12A26017	4	15304730	22-20 Ga., Male	12A26002	50	(CPA) Housing Locks			
15326633	4-Way Male	12A26018	4	15304719	18-16 Ga., Female	12A26003	50	15317832	Housing Lock	12A25028	10
				15304731	18-16 Ga., Male	12A26004	50				

Packard Metri-Pack 150 Series, Sealed

Metri-Pack 150 Series, Sealed



Male tab width = 1.5 mm. 14 amps max. per circuit.

For durable, long-term connections each housing uses a wire organizer (TPA) and mating pairs of housings use housing locks (CPA), unless noted. Terminals require seals and a proper crimping tool, listed below.

Kit part #12A18003 available on page #32.

Terminals and Seals

Wire Size (AWG)	Female Terminals			Male Terminals			Female & Male Terminal Seals			
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Color	Pkg. Qty.
22	-----	-----	-----	-----	-----	-----	15324974/12048087	12A12014	Blue	50
22	-----	-----	-----	-----	-----	-----	12084193	12A12023	Tan	50
22-20	12084200	12A12007	25	12077628	12A12009	25	15324976	12A12016	White	50
18-16	12048074	12A12006	25	12045773	12A12008	25	15324973/12048086	12A12015	Dark Red	50

Cavity Plugs to Fill Unused Circuits, Dark Red (Pkg. of 25) Part #12A12010/Packard #12059168

Housings

No. of Cavities	Female Housings			Male Housings			Wire Organizers (TPA)			Housing Locks (CPA)		
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.
2	(A) 12052641	12A12025	5	(G) 12162000	12A12026	5	12052634	12A12039	10	-----	-----	-----
3	(B) 12110293	12A12027	5	(H) 12129615	12A12028	5	12052845	12A12040	10	12020833	12A12097	5
4	(C) 12162144	12A12029	5	(I) 12162102	12A12030	5	12047948	12A12038	10	12020833	12A12097	5
6	(D) 12052848	12A12031	5	(J) 12124107	12A12032	5	12052850	12A12041	10	12020833	12A12097	5
8	(E) 12047937	12A12033	5	(K) 12047931	12A12034*	5	12066304	12A12042	10	12020833	12A12097	5
10	(F) 12065425	12A12011**	5	(L) 12045808	12A12012	5	12124264	12A12013	10	12020833	12A12097	5

*Use wire organizer (TPA) Part #12A12037/Packard #12047936
**Also available in gray, Part #66C11229/Packard #12065426

Metri-Pack 150 Series, Sealed Tools

Works With	Style	Crimp Method	Packard #	Part #
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11022
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58, and 59 Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58, and 59 Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023
Delphi Recommended Tool Metri-Pack 150 Series, Sealed, 20-14 Gauge Metri-Pack 280 Series, Sealed, 20-14 Gauge	OEM Ratchet	Standard Two Crimp	12155975	37A11015
Metri-Pack 150 Series, 22-14 Gauge Metri-Pack 280 Series, 22-14 Gauge Weather Pack, 22-14 Gauge	Non-Ratchet	Standard Two Crimp	-----	37A11019

Packard Metri-Pack 150 Series, Unsealed

Metri-Pack 150 Series, Unsealed

Male tab width = 1.5 mm. 14 amps max. per circuit.

For durable, long-term connections each housing uses a wire organizer (TPA) and mating pairs of housings use housing locks (CPA), unless noted. Terminals require a proper crimping tool, listed below.



Terminals

Wire Size (AWG)	Female			Male		
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.
22-20	12064971	12A12003	25	12059894	12A12005	25
18-16	12047767	12A12001	25	12047581	12A12004	25

Housings

Female				Male				Wire Organizers (TPA) #12A12073 Packard #12047665	Housing Lock (CPA) #12A12096 Packard #12052834
A	B	C	D	L	M	N	O		

No. of Cavities	Female			Wire Organizers (TPA)			Male			Wire Organizers (TPA)			Housing Locks (CPA)		
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.
1	(A) 12047682	12A12048	25	-----	-----	-----	(L) 12047683	12A12049	25	-----	-----	-----	-----	-----	-----
2	(B) 12047662	12A12050	10	12047664	12A12072	10	(M) 12047663	12A12051	10	12047665	12A12073	10	-----	-----	-----
2	(C) 12052832	12A12052	10	12047664	12A12072	10	(N) 12052833	12A12053	10	12047665	12A12073	10	12052834	12A12096	5
3	(D) 12064758	12A12056	10	12047783	12A12074	10	(O) 12064759	12A12057	10	12047784	12A12075	10	12052834	12A12096	5
3	(E) 12047781	12A12054	10	12047783	12A12074	10	(P) 12047782	12A12055	10	12047784	12A12075	10	-----	-----	-----
4	(F) 12064760	12A12060	10	12047664	12A12072*10		(Q) 12064761	12A12061	10	12047787	12A12076	10	12052834	12A12096	5
4	(G) 12047785	12A12058	10	12047664	12A12072*10		(R) 12047786	12A12059	10	12047787	12A12076	10	-----	-----	-----
6	(H) 12064762	12A12062	10	12064764	12A12077*10		(S) 12064763	12A12063	10	12064765	12A12078	10	12052834	12A12096	5
8	(I) 12047886	12A12064	10	12045689	12A12070*20		(T) 12045688	12A12065	10	12045690	12A12071	10	-----	-----	-----
8	(J) 12064766	12A12066	10	12064768	12A12079*20		(U) 12064767	12A12067	10	12045690	12A12071	10	12052834	12A12096	5
10	(K) 12064769	12A12068	5	12064771	12A12080*10		(V) 12064770	12A12069	5	12064772	12A12081	5	12052834	12A12096	5

*Uses two wire organizers (TPA)

Metri-Pack 150 Series, Unsealed Tools

Works With	Style	Crimp Method	Packard #	Part #	
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012	
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11022	
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58 and 59, Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013	
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58 and 59, Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023	

Delphi Recommended Tool

Works With	Style	Crimp Method	Packard #	Part #	
Metri-Pack 150 Series, Unsealed, 22-16 Gauge Metri-Pack 150 Pull to Seat Series, Unsealed, 22-16 Gauge Metri-Pack 150.1 Pull to Seat Series, Unsealed, 22-16 Gauge Metri-Pack 150.2 Pull to Seat Series, Unsealed, 22-16 Gauge	OEM Ratchet	Quick Single Motion	12039500	37A11005	
Metri-Pack 150 Series, 22-14 Gauge Metri-Pack 280 Series, 22-14 Gauge Weather Pack, 22-14 Gauge	Non-Ratchet	Standard Two Crimp	-----	37A11019	

Packard Metri-Pack 280 Series, Sealed

Metri-Pack 280 Series, Sealed



Male tab width = 2.8 mm. 30 amps max. per circuit.

For durable, long-term connections each housing uses a wire organizer (TPA) and mating pairs of housings use housing locks (CPA), unless noted. Terminals require seals and a proper crimping tool, listed below.

Kit part #12A18004 available on page #33.

Terminals and Seals

Wire Size (AWG)	Female			Male			Seal	Cavity Plug		
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Female & Male Terminal	Seals	Pkg. Qty.
22	-----	-----	-----	-----	-----	-----	15324983/12015899	12A11028	Dark Red	50
22-20	12084201	12A13012	25	12124977	12A13016	25	15324985/12089679	12A11027	Purple	50
18-16	12077411	12A13011	25	12048159	12A13015	25	15324982/12015323	12A11026	Green	50
14-12	12129493	12A13010	25	12129497	12A13014	25	15324980	12A11025	Gray	50
12	12077413	12A13009	10	12048254	12A13013	10	15324981	12A11024	Blue	50

Cavity Plugs to Fill Unused Circuits, Green (Pkg. of 25) Part #12A11023/Packard #12010300

Housings

No. of Cavities	Female						Male						Wire Organizer (TPA)		Housing Lock (CPA)					
	Housings	Packard #	Part #	Pkg. Qty.	Wire Organizers (TPA)	Packard #	Part #	Pkg. Qty.	Housings	Packard #	Part #	Pkg. Qty.	Wire Organizers (TPA)	Packard #	Part #	Pkg. Qty.	Housing Locks (CPA)	Packard #	Part #	Pkg. Qty.
1	(A)	12065172	12A13035	5	12065249	12A13045	10	(F)	12065171	12A13036	5	12065249	12A13045	10	12052834	12A12096	5			
2	(B)	15300027	12A13037	5	15300014	12A13048	10	(G)	15300002	12A13038	5	15300014	12A13048	10	-----	-----	-----			
3	(C)	12040977	12A13039	5	12034145	12A13047	5	(H)	15300003	12A13040	5	15300015	12A13049	5	12020833	12A12097	5			
4	(D)	12129565	12A13041	5	15300016	12A13050	5	(I)	12129600	12A13042	5	15324063	12A13051	5	12020833	12A12097	5			
5	(E)	12084891	12A13043	5	15324857	12A13052	5	(J)	12186400	12A13044	5	12084673	12A13046	5	12020833	12A12097	5			

Metri-Pack 280 Series, Sealed Tools

Works With	Style	Crimp Method	Packard #	Part #
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11022
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58 and 59 Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58 and 59, Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023
Metri-Pack 150 Series, Sealed, 20-14 Gauge Metri-Pack 280 Series, Sealed, 20-14 Gauge	OEM Ratchet	Standard Two Crimp	12155975	37A11015
Weather Pack, 12 Gauge Metri-Pack 280 Series, Sealed, 12-10 Gauge Packard Open Barrel Rings, 12-10 Gauge	Ratchet	Standard Two Crimp	15155975	37A11016
Weather Pack Series, 20-14 Gauge Metri-Pack 280 Series, Sealed, 20-14 Gauge (must remove terminal locator on tool)	OEM Ratchet	Quick Single Motion	12014254	37A11004
Weather Pack Series, 12 Gauge Metri-Pack 280 Series, Sealed, 12 Gauge Metri-Pack 480 Series, Sealed, 18-14 Ga. and Unsealed, 16-14 Ga. Metri-Pack 480 Pull to Seat Series, Unsealed, 18-14 Gauge Metri-Pack 150, 480, and 630 Series (Crimps Seals Only) Metri-Pack 630 Series, Sealed 18-14 Gauge	OEM Ratchet	Standard Two Crimp	12085270	37A11010
Metri-Pack 150 Series, 22-14 Gauge Metri-Pack 280 Series, 22-14 Gauge Weather Pack, 22-14 Gauge	Non-Ratchet	Standard Two Crimp	-----	37A11019

Packard Metri-Pack 280 Series, Unsealed

Metri-Pack 280 Series, Unsealed

Male tab width = 2.8 mm. 30 amps max. per circuit.

For durable, long-term connections each housing uses a wire organizer (TPA) and mating pairs of housings use housing locks (CPA), unless noted. Terminals require a proper crimping tool, listed below.



Terminals

Wire Size (AWG)	Female Terminals			Male Terminals		
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.
22-20	12052217	12A13004	25	12066271	12A13008	25
18-16	12034046	12A13003	25	12034047	12A13007	25
16-14	12066214	12A13002	25	12020116	12A13006	25
14-12	12129494	12A13001	25	12129498	12A13005	25
12-10	12015858	12A13061	25	12084586	12A13062	25

Housings

No. of Cavities	Female						Male						Wire Organizer (TPA)		
	Housings		Pkg. Qty.	Wire Organizers (TPA)		Pkg. Qty.	Housings		Pkg. Qty.	Wire Organizers (TPA)		Pkg. Qty.	Housing Locks (CPA)		
	Packard #	Part #		Packard #	Part #		Packard #	Part #		Packard #	Part #		Packard #	Part #	
3	(A) 12020397	12A13063	10	-----	-----	-----	(D) 12020398	12A13064	10	-----	-----	-----	12052834	12A12096	5
6	(B) 12064752	12A13065*10	10	12064753	12A13069	10	(E) 12064754*	12A13066	10	12064755	12A13070	10	12052834	12A12096	5
8	(C) 12064998	12A13067*10	10	12064999	12A13071	10	(F) 12066195	12A13068	10	12065141	12A13072	10	12052834	12A12096	5

*Two wire organizers (TPA) are required for this connector.

Metri-Pack 280 Series, Unsealed Tools

Works With	Style	Crimp Method	Packard #	Part #	
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012	
Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11022	
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013	
Packard 56, 58, and 59 Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023	
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013	
Packard 56, 58 and 59, Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023	
Delphi Recommended Tool	OEM Ratchet	Standard Two Crimp	12085271	37A11011	
Metri-Pack 280 Series, Unsealed, 20-14 Gauge					
Metri-Pack 280 ACT Pull to Seat Series, Unsealed, 20-14 Gauge					
Metri-Pack 480 Series, Unsealed, 20-18 Gauge					
Metri-Pack 480 and 630 Pull to Seat Series, Unsealed, 20-18 Gauge					
Metri-Pack 630 Series, Unsealed, 20-18 Gauge					
Pack-Con Series II, Unsealed, Female, 20-14 Gauge					
Delphi Recommended Tool	OEM Ratchet	Quick Single Motion	12070947	37A11006	
Metri-Pack 280 and 480 Series, Unsealed, 12-10 Gauge					
Metri-Pack 280 ACT Series, Unsealed, 12-10 Gauge					
Metri-Pack 480 Pull to Seat Series, Unsealed, 12-10 Gauge					
Metri-Pack 630 Series, Unsealed, 12-10 Gauge					
Metri-Pack 630 Pull to Seat Series, Unsealed, 12-10 Gauge					
Metri-Pack 800 Series, Unsealed, Female, 14-10 Gauge					
Pack-Con Series I & III, Unsealed, 12-10 Gauge					
Metri-Pack 280, 480, and 630 Series, Unsealed, 16-12 Gauge					
Packard 56, 58, and 59 Series, 12-10 Gauge	OEM Ratchet	Standard Two Crimp	12085115	37A11009	
Packard Open Barrel Rings, 14-10 Gauge					
Heat Shrink, 22-10 Gauge					
Metri-Pack 150 Series, 22-14 Gauge	Non-Ratchet	Standard Two Crimp	-----	37A11019	
Metri-Pack 280 Series, 22-14 Gauge					
Weather Pack, 22-14 Gauge					

Packard Metri-Pack 480 Series, Sealed

Metri-Pack 480 Series, Sealed



Male tab width = 4.8 mm. 42 amps max. per circuit.
 For durable, long-term connections each housing uses a wire organizer (TPA) and mating pairs of housings use housing locks (CPA), unless noted. Terminals require seals and a proper crimping tool, listed below.
 Kit part #12A18005 available on page #33.

Terminals and Seals



Wire Size (AWG)	Female Terminals			Male Terminals			Female & Male Terminal Seals			
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Color	Pkg. Qty.
22-20	-----	-----	----	-----	-----	----	12052930	12A14018	Yellow	50
20-18	-----	-----	----	-----	-----	----	12048441	12A14017	White	50
16-14	12048451	12A14008	10	12065196	12A14012	10	12048441	12A14017	White	50
12	12052139	12A14007	10	12065197	12A14011	10	15324989	12A14016	Red	25
10	12052139	12A14007	10	12052172	12A14010	10	12048444	12A14014	Orange	25

Cavity Plugs to Fill Unused Circuits, Gray (Pkg. of 25) Part #12A14013/Packard #35232480

Housings



No. of Cavities	Female						Male								
	Housing		Pkg. Qty.	Wire Organizers (TPA)		Pkg. Qty.	Housing		Pkg. Qty.	Wire Organizers (TPA)		Pkg. Qty.	Housing Locks (CPA)		
	Packard #	Part #		Packard #	Part #		Packard #	Part #		Packard #	Part #		Packard #	Part #	
2	(A) 12052613	12A14029	5	(C) 12059897	12A14031	10	(B) 12065863	12A14030	5	(C) 12059897	12A14031	10	(D) 12020833	12A12097	5

Metri-Pack 480 Series, Sealed Tools

	Works With	Style	Crimp Method	Packard #	Part #
	Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012
	Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11022
	Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58, and 59 Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013
	Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58 and 59, Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023
	Delphi Recommended Tool Weather Pack Series, 12 Gauge Metri-Pack 280 Series, Sealed, 12 Gauge Metri-Pack 480 Series, Sealed, 18-14 Gauge Metri-Pack 480 Series, Unsealed, 16-14 Gauge Metri-Pack 480 Pull to Seat Series, Unsealed, 18-14 Gauge Metri-Pack 150, 480, and 630 Series (Crimps Seals Only) Metri-Pack 630 Series, Sealed 18-14 Gauge	OEM Ratchet	Standard Two Crimp	12085270	37A11010
	Metri-Pack 480 Series, 12-10 Gauge (Crimps Sealed Only) Metri-Pack 630 Series, 12-10 Gauge (Crimps Sealed Only) Metri-Pack 630 Series, 12-10 Gauge (Crimps Sealed Only)	OEM Non-Ratchet	Standard Two Crimp	12071687	37A11008

Packard Metri-Pack 480 Series, Unsealed

Metri-Pack 480 Series, Unsealed

Male tab width = 4.8 mm. 42 amps max. per circuit.

For durable, long-term connections each housing uses a wire organizer (TPA) and mating pairs of housings use housing locks (CPA), unless noted. Terminals require a proper crimping tool, listed below.



Terminals

Wire Size (AWG)	Female Terminals			Male Terminals		
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.
22-20	12052219	12A14032	25	-----	-----	-----
18	12015860	12A14003	25	12020119	12A14006	25
16-14	12124304	12A14002	25	12020120	12A14005	25
12	12052221	12A14001	25	12052827	12A14004	25
10	12084595	12A14039	25	12033820	12A14040	10

Housings

Female		Male		Wire Organizer (TPA)	Housing Lock (CPA)				
A	B	C	D	#12A14045/12059860	#12A12096/12052834				
Housings		Wire Organizers (TPA)		Housings		Wire Organizers (TPA)		Housing Locks (CPA)	
No. of Cavities	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.
1	(A) 12015952	12A14041	10	-----	(C) 12015987	12A14042	10	-----	-----
2	(B) 12064749	12A14043	10	12059860	12A14045	10	(D) 12064750	12A14044	10
							12064751	12A14046	10
							12052834	12A12096	5

Metri-Pack 480 Series, Unsealed Tools

Works With	Style	Crimp Method	Packard #	Part #
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012
Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge				
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11022
Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge				
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013
Packard 56, 58, and 59 Series, 20-10 Gauge				
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023
Packard 56, 58, and 59 Series, 20-10 Gauge				
Delphi Recommended Tool	Non-Ratchet	Standard Two Crimp	6285847	37A11001
Metri-Pack 480 Series, Unsealed, 16-14 Gauge				
Metri-Pack 480 Pull to Seat Series, Unsealed, 16-14 Gauge				
Metri-Pack 630 Series, Unsealed, 16-14 Gauge				
Metri-Pack 630 Pull to Seat Series, 16-14 Gauge, Unsealed				
Metri-Pack 630 Series, Unsealed, 12-10 Gauge (Core Wings Only)				
Pack-Con Series I & III, Unsealed, 20-14 Gauge				
Pack-Con Series II, Female, Unsealed, 12-10 Gauge				
Packard 56, 58, and 59 Series, 20-14 Gauge				
Packard 56, 58, and 59 Series, 12-10 Gauge (Core Wings Only)				
Packard 56 Series, 20-10 Gauge, Splice Clips				
Packard Open Barrel Rings, Unsealed, 20-14 Gauge, Up to 0.032" Thick				
Packard Wedge Base Lamp Sockets, 20-14 Gauge				
Delphi Recommended Tool	OEM Ratchet	Quick Single Motion	12070947	37A11006
Metri-Pack 280 and 480 Series, Unsealed, 12-10 Gauge				
Metri-Pack 280 ACT Series, Unsealed, 12-10 Gauge				
Metri-Pack 480 Pull to Seat Series, Unsealed, 12-10 Gauge				
Metri-Pack 630 Series, Unsealed, 12-10 Gauge				
Metri-Pack 630 Pull to Seat Series, Unsealed, 12-10 Gauge				
Metri-Pack 800 Series, Unsealed, Female, 14-10 Gauge				
Pack-Con Series I & III, Unsealed, 12-10 Gauge				
Weather Pack Series, 12 Gauge	OEM Ratchet	Standard Two Crimp	12085270	37A11010
Metri-Pack 280 Series, Sealed, 12 Gauge				
Metri-Pack 480 Series, Sealed, 18-14 Gauge				
Metri-Pack 480 Series, Unsealed, 16-14 Gauge				
Metri-Pack 480 Pull to Seat Series, Unsealed, 18-14 Gauge				
Metri-Pack 150, 480, and 630 Series (Crimps Seals Only)				
Metri-Pack 630 Series, Sealed 18-14 Gauge				
Metri-Pack 280 Series, Unsealed, 20-14 Gauge	OEM Ratchet	Standard Two Crimp	12085271	37A11011
Metri-Pack 280 ACT Pull to Seat Series, Unsealed, 20-14 Gauge				
Metri-Pack 480 Series, Unsealed, 20-18 Gauge				
Metri-Pack 480 and 630 Pull to Seat Series, Unsealed, 20-18 Gauge				
Metri-Pack 630 Series, Unsealed, 20-18 Gauge				
Pack-Con Series II, Unsealed, Female, 20-14 Gauge				

Packard Metri-Pack 630 Series, Sealed

Metri-Pack 630 Series, Sealed, 2-Way Housings



Male tab width = 6.3 mm. 46 amps max. per circuit.
 For durable, long-term connections each housing uses a wire organizer (TPA).
 Female housing is pull-to-seat (seal is inside). Male housing requires an entry seal.
 Terminals require a proper crimping tool, listed below.

Terminals

Wire Size (AWG)	Pull-to-Seat Female Terminals			Male Terminals		
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.
20-18	12020156	12A15003	10	12020125	12A15004	10
16-14	12066614	12A15005	10	12020126	12A15006	10
12	12033997	12A15007	10	12052826	12A15008	10
12-10	-----	-----	-----	12066493	12A15009	10

Cavity Plugs to Fill Unused Circuits, Green (Pkg. of 25) Part #12A15010/Packard #12059255

Housings

No. of Cavities	Female		Male		Male Housing Entry Seal		Male Wire Organizer (TPA)					
	Packard #	Part #	Packard #	Part #	Packard #	Part #	Packard #	Part #				
2	(A) 12033769	12A15011	5	(B) 12034269	12A15012	5	(C) 12034364	12A15013	5	(D) 12034363	12A15014	5

Metri-Pack 630 Series, Sealed, 3-Way Housings

Male tab width = 6.3 mm. 46 amps max. per circuit.
 For durable, long-term connections each housing uses a wire organizer (TPA) and mating pairs of housings use housing locks (CPA), unless noted.
 Terminals require seals and a proper crimping tool, listed below.

Terminals and Seals

Wire Size (AWG)	Female Terminals			Male Terminals			Female & Male Terminal Seals			
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Color	Pkg. Qty.
20-18	12052457	12A15015	10	12064734	12A15016	10	-----	-----	-----	-----
16-14	12052455	12A15017	10	12064735	12A15001	10	12052388	12A15002	Dk. Red	25
12	12052456	12A15019	10	12064737	12A15020	10	15324996/12052668	12A15023	Blue	25
10	12052456	12A15019	10	12064736	12A15021	10	12052386	12A15024	Green	25

Cavity Plugs to Fill Unused Circuits, Green (Pkg. of 25) Part #12A15010/Packard #12059255

Housings

No. of Cavities	Female			Male			Wire Organizers (TPA)			Housing Locks (CPA)					
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.			
3	(A) 12124685	12A15026	5	(C) 12045699	12A15028	10	(B) 12124686	12A15027	5	(C) 12045699	12A15028	10	(D) 12020833	12A12097	5

Metri-Pack 630 Series, Sealed Tools

	Works With	Style	Crimp Method	Packard #	Part #
	Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012
	Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11022
	Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58, and 59 Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013
	Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58, and 59 Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023
	Metri-Pack 480 Series, 12-10 Gauge (Crimps Sealed Only) Metri-Pack 630 Series, 12-10 Gauge (Crimps Sealed Only)	OEM Non-Ratchet	Standard Two Crimp	12071687	37A11008
	Weather Pack Series, 12 Gauge Metri-Pack 280 Series, Sealed, 12 Gauge Metri-Pack 480 Series, Sealed, 18-14 Gauge Metri-Pack 480 Series, Unsealed, 16-14 Gauge Metri-Pack 480 Pull to Seat Series, Unsealed, 18-14 Gauge Metri-Pack 150, 480, and 630 Series (Crimps Seals Only) Metri-Pack 630 Series, Sealed 18-14 Gauge	OEM Ratchet	Standard Two Crimp	12085270	37A11010

Packard Metri-Pack 630 Series, Unsealed

Metri-Pack 630 Series, Unsealed

Male tab width = 6.3 mm. 46 amps max. per circuit.

For durable, long-term connections each housing uses a wire organizer (TPA) and mating pairs of housings use housing locks (CPA), unless noted. Terminals require a proper crimping tool, listed below.



Terminals

Wire Size (AWG)	Female			Male		
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.
22-20	12052222	12A15029	10	-----	-----	-----
20-18	12015869	12A15030	10	12020125	12A15004	10
16-14	12015870	12A15031	10	12020126	12A15006	10
12	12052224	12A15032	10	12052826	12A15008	10
10	12084590	12A15033	10	12066493	12A15009	10

Housings

No. of Cavities	Female			Male			Wire Organizer (TPA)	Housing Lock (CPA)				
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.			
2	(A) 12129939	12A15034	10	(C) 12129938	12A15035	10	12129940	12A15038	10	12052834	12A12096	5
4	(B) 12015664	12A15036	10	(D) 12052623	12A15037	10	-----	-----	-----	-----	-----	-----

Metri-Pack 630 Series, Unsealed Tools

Works With	Style	Crimp Method	Packard #	Part #
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012
Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11022
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge				
Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Terminal Release Tool	-----	12094430	37A11013
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023
Packard 56, 58, and 59 Series, 20-10 Gauge				
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge	Terminal Release Tool	-----	-----	37A11023
Packard 56, 58 and 59, Series, 20-10 Gauge	OEM Ratchet	Standard Two Crimp	12085271	37A11011
Metri-Pack 280 Series, Unsealed, 20-14 Gauge	OEM Non-Ratchet	Standard Two Crimp	6285847	37A11001
Metri-Pack 280 ACT Pull to Seat Series, Unsealed, 20-14 Gauge				
Metri-Pack 480 Series, Unsealed, 20-18 Gauge				
Metri-Pack 480 and 630 Pull to Seat Series, Unsealed, 20-18 Gauge				
Metri-Pack 630 Series, Unsealed, 20-18 Gauge				
Pack-Con Series II, Unsealed, Female, 20-14 Gauge				
Metri-Pack 480 Series, Unsealed, 16-14 Gauge	OEM Ratchet	Quick Single Motion	12070947	37A11006
Metri-Pack 480 Pull to Seat Series, Unsealed, 16-14 Gauge				
Metri-Pack 630 Series, Unsealed, 16-14 Gauge				
Metri-Pack 630 Pull to Seat Series, 16-14 Gauge, Unsealed				
Metri-Pack 630 Series, Unsealed, 12-10 Gauge (Core Wings Only)				
Pack-Con Series I & III, Unsealed, 20-14 Gauge				
Pack-Con Series II, Female, Unsealed, 12-10 Gauge				
Packard 56, 58, and 59 Series, 20-14 Gauge				
Packard 56, 58, and 59 Series, 12-10 Gauge (Core Wings Only)				
Packard 56 Series, 20-10 Gauge, Splice Clips				
Packard Open Barrel Rings, Unsealed, 20-14 Gauge, Up to 0.032" Thick				
Packard Wedge Base Lamp Sockets, 20-14 Gauge				
Metri-Pack 280 and 480 Series, Unsealed, 12-10 Gauge	OEM Ratchet	Quick Single Motion	12070947	37A11006
Metri-Pack 280 ACT Series, Unsealed, 12-10 Gauge				
Metri-Pack 480 Pull to Seat Series, Unsealed, 12-10 Gauge				
Metri-Pack 630 Series, Unsealed, 12-10 Gauge				
Metri-Pack 630 Pull to Seat Series, Unsealed, 12-10 Gauge				
Metri-Pack 800 Series, Unsealed, Female, 14-10 Gauge				
Pack-Con Series I & III, Unsealed, 12-10 Gauge				
Pack-Con Series I & III, Unsealed, 12-10 Gauge				

Packard Metri-Pack 800 Series, Unsealed

Metri-Pack 800 Series, Unsealed



Male tab width = 8.0 mm. 60 amps max. per circuit.
 For durable, long-term connections each housing uses a wire organizer (TPA) and mating pairs of housings use housing locks (CPA), unless noted.
 Terminals require a proper crimping tool, listed below.

Terminals



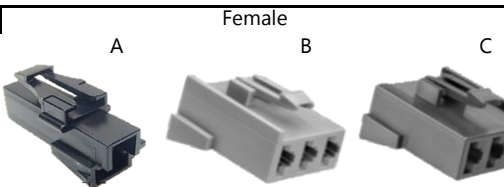
Female



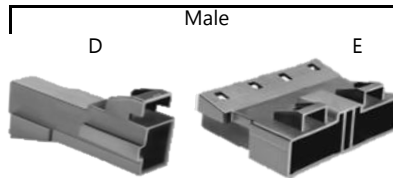
Male

Wire Size (AWG)	Female Terminals			10 AWG Male Terminals		
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.
10	12110127	12A24001	5	12110700	12A24002	5
Two 10 Gauge Wires	12092445	12A24003	5	12110700	12A24002	5
Two 12 Gauge Wires	12092444	12A24004	5	12110700	12A24002	5
14-12	12065916	12A24005	5	12110700	12A24002	5

Housings



Female



Male

Wire Organizer (TPA)



Housing Lock (CPA)



No. of Cavities	Female						Male										
	Housings		Pkg. Qty.	Wire Organizers (TPA)		Pkg. Qty.	Housings		Pkg. Qty.	Wire Organizers (TPA)		Pkg. Qty.	Housing Locks (CPA)		Pkg. Qty.		
	Packard #	Part #		Packard #	Part #		Packard #	Part #		Packard #	Part #		Packard #	Part #			
1	(A)	12160893	12A24006	10	12160895	12A24011	10	(D)	12160894	12A24007	10	12160895	12A24011	10	12052834	12A12096	5
3/6*	(B)	12092399	12A24008	10	12092401	12A24012	20	(E)	12110698	12A24010♦	1	12092401	12A24012	20	12052834	12A12096	5
3/6*	(C)	12092400	12A24009	10	12092401	12A24012	20	(E)	12110698	12A24010♦	1	12092401	12A24012	20	12052834	12A12096	5

* Two 3-way female housings fit one 6-way male housing.
 ♦ Requires two male wire organizers (TPA) and two housing locks (CPA).

Metri-Pack 800 Series, Unsealed Tools

	Works With	Style	Crimp Method	Packard #	Part #
	Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012
	Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11022
	Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58, and 59 Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013
	Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58 and 59, Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023
	Delphi Recommended Tool Metri-Pack 280 and 480 Series, Unsealed, 12-10 Gauge Metri-Pack 280 ACT Series, Unsealed, 12-10 Gauge Metri-Pack 480 Pull to Seat Series, Unsealed, 12-10 Gauge Metri-Pack 630 Series, Unsealed, 12-10 Gauge Metri-Pack 630 Pull to Seat Series, Unsealed, 12-10 Gauge Metri-Pack 800 Series, Unsealed, Female, 14-10 Gauge Pack-Con Series I & III, Unsealed, 12-10 Gauge	OEM Ratchet	Quick Single Motion	12070947	37A11006

Packard Metri-Pack GT 150 Series, Sealed

Metri-Pack GT 150 Series, Sealed

Male tab width = 1.5 mm. 15 amps max. per circuit.

This series is used on late model cars and trucks.

For durable, long-term connections mating pairs of housings use housing locks (CPA), unless noted. Terminals require seals and a proper crimping tool, listed below.

Kit part #12A18006 available on page #33.



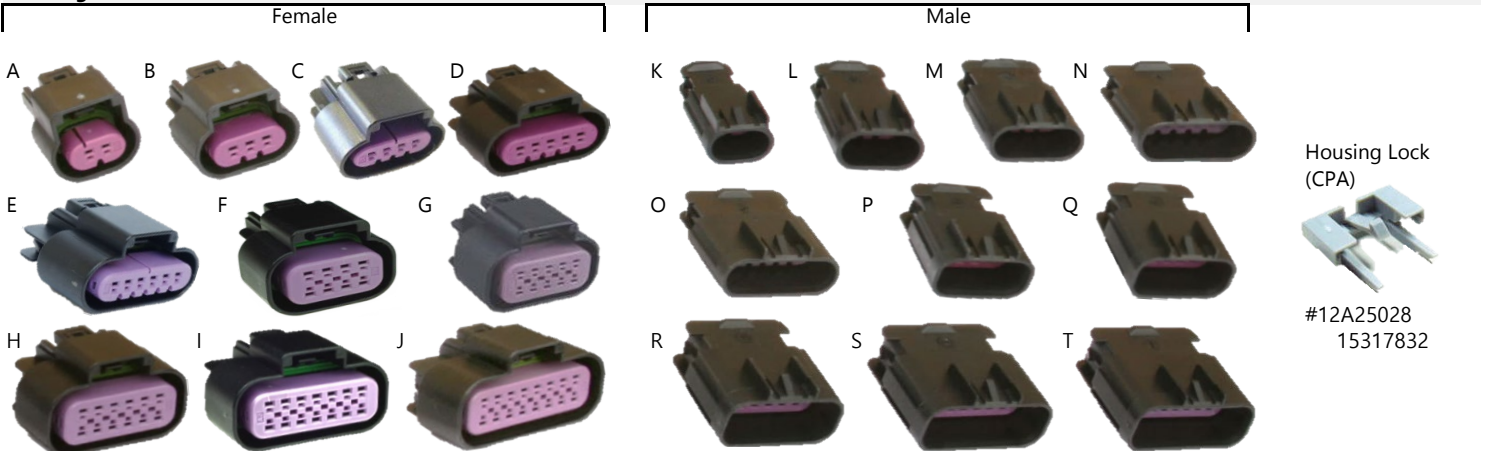
Terminals and Seals



Wire Size (AWG)	Female Terminals			Male Terminals			Female & Male Terminal Seals			
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Color	Pkg. Qty.
22-20	12191818	12A25001	25	15326268	12A25002	25	15366021	12A25005	White	100
18-16	12191819	12A25003	25	15326269	12A25004	25	15366060	12A25006	Blue	50

Cavity Plugs to Fill Unused Circuits, Green (Pkg. of 25) Part #12A25007/Packard #15305171

Housings



No. of Cavities	Female Housings			Male Housings			Housing Locks (CPA)		
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.
2	(A) 13510085	12A25008	5	(K) 13510099	12A25009	5	15317832	12A25028	10
3	(B) 13519047	12A25010	5	(L) 15326813	12A25011	5	15317832	12A25028	10
4	(C) 15487756	12A25012	5	(M) 15487755	12A25013	5	15317832	12A25028	10
5	(D) 13519051	12A25014	5	(N) 13519053	12A25015	5	15317832	12A25028	10
6	(E) 15397577	12A25016	5	(O) 15397579	12A25017	5	15317832	12A25028	10
8	(F) 15326835	12A25018	1	(P) 15326840	12A25019	1	15317832	12A25028	10
10	(G) 15326842	12A25020	1	(Q) 15326847	12A25021	1	15317832	12A25028	10
12	(H) 13530777	12A25022	1	(R) 15326854	12A25023	1	15317832	12A25028	10
14	(I) 15326856	12A25024	1	(S) 15326861	12A25025	1	15317832	12A25028	10
16	(J) 15326863	12A25026	1	(T) 15326868	12A25027	1	15317832	12A25028	10

Metri-Pack GT 150 Series, Sealed Tools

Works With	Style	Crimp Method	Packard #	Part #	
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012	
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11022	
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58, and 59 Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013	
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58, and 59 Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023	
Delphi Recommended Tool Metri-Pack GT 150 Series, Sealed, 22-16 Gauge Metri-Pack GT 280 Series, 22-16 Gauge (Must remove locator on tool)	OEM Ratchet	Quick Single Motion	15359995	37A11017	

Packard Metri-Pack GT 280 Series, Sealed

Metri-Pack GT 280 Series, Sealed Connectors



Male tab width = 2.8 mm. 25 amps max. per circuit.

For durable, long-term connections mating pairs of housings use housing locks (CPA), unless noted. Terminals require seals and a proper crimping tool, listed below.

Kit part #12A18007 available on page #33.

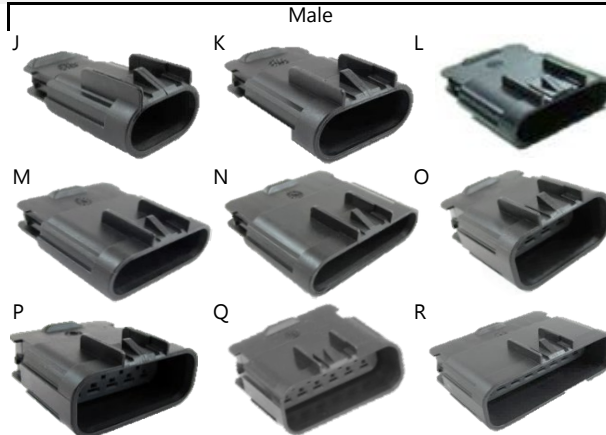
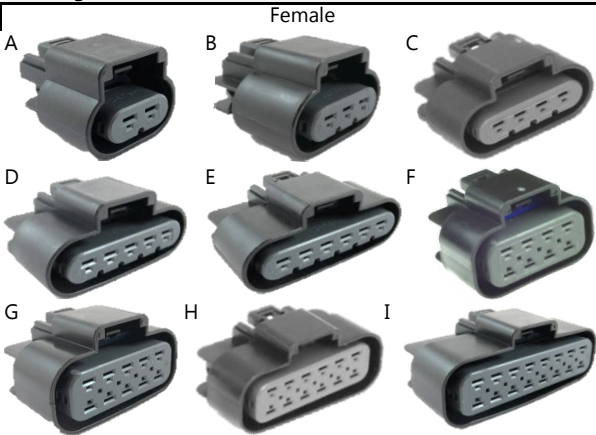
Terminals and Seals



Wire Size (AWG)	Female			Male			Seal				Cavity Plug			
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Color	Pkg. Qty.	
22-20	15304718	12A26001	25	15304730	12A26002	25	15366065	12A26008	50	12191235	12A26011	Orange	50	
18-16	15304719	12A26003	25	15304731	12A26004	25	15366066	12A26009	50			Yellow	50	
14-12	15304717	12A26005	25	15304732	12A26006	25	15366067	12A26010	50			Tan	50	
10	15326004	12A26007	25	-----	-----	-----						Purple	50	

Cavity Plugs to Fill Unused Circuits, White (Pkg. of 25) Part #12A26012/Packard #15305170

Housings



Housing Lock (CPA)

#12A25028
15317832

No. of Cavities	Female Housings			Male Housings			Housing Locks (CPA)		
	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.	Packard #	Part #	Pkg. Qty.
2	(A) 13518845	12A26013	10	(J) 15326678	12A26014	10	15317832	12A25028	10
3	(B) 15326614	12A26015	10	(K) 15326623	12A26016	10	15317832	12A25028	10
4	(C) 13521459	12A26017	10	(L) 15326633	12A26018	10	15317832	12A25028	10
5	(D) 13521463	12A26019	1	(M) 15326647	12A26020	5	15317832	12A25028	10
6	(E) 13521467	12A26021	5	(N) 15326640	12A26022	5	15317832	12A25028	10
8	(F) 15326654	12A26023	1	(O) 15326655	12A26024	1	15317832	12A25028	10
10	(G) 15326660	12A26025	1	(P) 15326661	12A26026	1	15317832	12A25028	10
12	(H) 15326910	12A26027	1	(Q) 15326915	12A26028	1	15317832	12A25028	10
16	(I) 15326666	12A26029	1	(R) 15326667	12A26030	1	15317832	12A25028	10

Metri-Pack GT 280 Series, Sealed Tools

Works With	Style	Crimp Method	Packard #	Part #
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11022
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58, and 59 Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58 and 59, Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	-----	37A11023

Delphi Recommended Tool



Metri-Pack GT 150 Series, Sealed, 22-16 Gauge Metri-Pack GT 280 Series, 22-16 Gauge (Must remove locator on tool)	OEM Ratchet	Quick Single Motion	15359995	37A11017
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Packard Metri-Pack Pull-to-Seat Housings and Terminals for Devices

Metri-Pack Pull-to-Seat Housings and Terminals for Devices

Metri-Pack pull-to-seat device connections are female housings and terminals which connect directly to specific devices. Pull-to-seat housings have built in seals. 14 amps max. per circuit.

To assemble pull-to-seat, the wire is inserted through the back of the housing, then out through the front. The wire is stripped and double crimped onto the terminal. The terminal is pulled back through until it seats in the housing, making a secure connection.

Female Pull-to-Seat Terminals for 150 Series Pull-to-Seat Housings

Wire Size (AWG)	Female Terminals	Part #	Pkg. Qty.
22-20	12089290	12A12082	25
18-16	12103881	12A12002	25

Cavity Plugs to Fill Unused Circuits, Gray (Pkg. of 25) Part #12A12085/Packard #12065266



Female 150 Series Housings, Pull-to-Seat

Number of Cavities	Typical Applications	Female Housings	Part #	Pkg. Qty.
3	A/C Compressor	12065287	12A12084	5



Female Pull-to-Seat Terminals for 150.2 Series Pull-to-Seat Housings

Wire Size (AWG)	Female Terminals	Part #	Pkg. Qty.
22-20	12124076	12A12086	10
20-18	12124075	12A12087	10

Cavity Plugs to Fill Unused Circuits, Gray (Pkg. of 25) Part #12A12085/Packard #12065266



Female 150.2 Series Housings, Pull-to-Seat

No. of Cavities	Typical Applications	Female Housings	Part #	Pkg. Qty.	No. of Cavities	Typical Applications	Female Housings	Part #	Pkg. Qty.
2	Temperature Sensors	12162193	12A12088	5	3	Crankshaft Sensors, Head Lamps	12162280	12A12092	1



2	Temperature Sensors	12162197	12A12089	1
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4	Distributor Modules	12162188	12A12093	1
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2	Throttle Bodies, Injectors	12162215	12A12090	1
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5	Sensors, Modules	12162825	12A12094	1
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3	Crankshaft Sensors, Head Lamps	12162182	12A12091	1
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6	Various Applications	12162210	12A12095	1
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Metri-Pack 150 Series, Unsealed Tools

Works With	Style	Crimp Method	Part Number	Part Number
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Terminal Release Tool	-----	12094429	37A11012
Metri-Pack 150, 280, and 630 Series, 22-10 Gauge Metri-Pack GT 150 and GT 280 Series, 22-10 Gauge	Heavy Duty Terminal Release Tool	-----	12094429HD	37A11022
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58, and 59 Series, 20-10 Gauge	Terminal Release Tool	-----	12094430	37A11013
Metri-Pack 480, 630, and 800 Series, 20-10 Gauge Packard 56, 58, and 59 Series, 20-10 Gauge	Heavy Duty Terminal Release Tool	-----	12094430HD	37A11023



Delphi Recommended Tool

Metri-Pack 150 Series, Unsealed, 22-16 Gauge Metri-Pack 150 Pull to Seat Series, Unsealed, 22-16 Gauge Metri-Pack 150.1 Pull to Seat Series, Unsealed, 22-16 Gauge Metri-Pack 150.2 Pull to Seat Series, Unsealed, 22-16 Gauge	OEM Ratchet	Quick Single Motion	12039500	37A11005
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Deutsch DT Series Connectors & Kit

Deutsch DT Series Connectors

Deutsch's DT Series connectors offer field proven reliability in corrosive and rugged environments. 13 amps max. per circuit.

Terminals

Select the terminal that fits your wire size. Terminals are Deutsch size 16. Use a plug in place of a terminal to fill an empty slot. Crimp solid terminals with the OEM tool #37A17001/Deutsch #HDT-48-00, see page 61. Use release tool #37A17012/Deutsch #0411-310-1605. For stamped and formed terminal crimpers see page 61. Stamped terminals are available on reels.

Wire Size (AWG)	Feature	Material	Pin			Socket		
			Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
Solid								
20-16	Standard	Nickel	0460-202-16141	39A11025	25	0462-201-16141	39A11026	25
20-16	High Conductivity	Gold	0460-202-1631	39A11029	10	0462-201-1631	39A11030	10
20-16	Extended Crimp	Nickel	0460-247-16141	11A60126	1	-----	-----	---
20-16	High Conductivity	Gold	0460-247-1631	11A60275	1	0462-221-1631	11A60598	1
14	Std. Green Band	Nickel	0460-215-16141	39A11027	25	0462-209-16141	39A11028	10
14	High Conductivity	Gold	0460-215-1631	39A11037	10	0462-209-1631	39A11036	10
Stamped and Formed, Reel								
20-16	Standard	Nickel	1060-16-0622	11A60327	25	1062-16-0622	11A60705	10
20-16	High Conductivity	Gold	1060-16-0644	11A60689	10	1062-16-0644	11A60735	10
18-14	Standard	Nickel	1060-16-0122	11A60373	25	1062-16-0122	11A60704	10
18-14	Standard	Nickel	1060-14-0122	11A60372	25	1062-14-0122	11A60709	10
18-14	High Conductivity	Gold	1060-14-0144	11A60698	10	1062-14-0144	11A60737	10
18-14	High Conductivity	Gold	1060-16-0144	11A60688	10	1062-16-0144	11A60734	10
18-14	High Conductivity	Gold	1060-16-0988	11A60738	10	1062-16-0988	11A60741	10
16-12	Standard	Nickel	1060-16-1222	11A60367	25	1062-16-1222	11A60713	10
16-12	Standard	Nickel	-----	-----	---	1062-16-1422	11A60700	10

Plug for empty slot Part #39A11031/Deutsch #114017 (25/pkg.)

Housings

Select the housing that has the number of circuits you need. Each of the housings are Deutsch size 16, accepts 20-14 gauge wire and requires a wedgelock to hold terminals in place.



Circuits	Pin Housing			Pin Wedgelock			Socket Housing			Socket Wedgelock		
	Housing Deutsch #	Part #	Pkg. Qty.	Wedgelock Deutsch #	Part #	Pkg. Qty.	Housing Deutsch #	Part #	Pkg. Qty.	Wedgelock Deutsch #	Part #	Pkg. Qty.
2-Way	DT04-2P	39A11001	10	W2P	39A11002	10	DT06-2S	39A11003	10	W2S	39A11004	10
3-Way	DT04-3P	39A11005	5	W3P	39A11006	10	DT06-3S	39A11007	5	W3S	39A11008	10
4-Way	DT04-4P	39A11009	5	W4P	39A11010	10	DT06-4S	39A11011	5	W4S	39A11012	10
6-Way	DT04-6P	39A11013	1	W6P	39A11014	10	DT06-6S	39A11015	1	W6S	39A11016	10
8-Way	DT04-08PA	39A11017	1	W8P	39A11018	10	DT06-08SA	39A11019	1	W8S	39A11020	10
12-Way	DT04-12PA	39A11021	1	W12P	39A11022	10	DT06-12SA	39A11023	1	W12S	39A11024	10

Quick Splice for DT Series Terminals #39A11032/Deutsch #JS16-00 (1/pkg.)

Deutsch DT Series Kit

This kit contains all of the DT series housings, wedgelocks, and pin and socket solid terminals you need to create a connection - 30 items, over 190 pieces in a large metal box, 18" w x 12" d x 3" h. Use OEM crimp tool #37A17001/ Deutsch #HDT-48-00, see page 61. 13 amps max. per circuit.

Part #	Kit Contains	Deutsch #	Description	Qty.	(Cont.)	Deutsch #	Description	Qty.
39A14001	39A11025	0460-202-16141	20-16 Ga. Pin Terminals	25	39A11012	W4S	4-Way Socket Wedgelocks	5
	39A11026	0462-201-16141	20-16 Ga. Socket Terminals	25	39A11013	DT04-6P	6-Way Pin Housings	1
	39A11027	0460-215-16141	14 Ga. Pin Terminals	25	39A11014	W6P	6-Way Pin Wedgelocks	1
	39A11028	0462-209-16141	14 Ga. Socket Terminals	25	39A11015	DT06-6S	6-Way Socket Housings	1
	39A11001	DT04-2P	2-Way Pin Housings	5	39A11016	W6S	6-Way Socket Wedgelocks	1
	39A11002	W2P	2-Way Pin Wedgelocks	5	39A11017	DT04-08PA	8-Way Pin Housings	1
	39A11003	DT06-2S	2-Way Socket Housings	5	39A11018	W8P	8-Way Pin Wedgelocks	1
	39A11004	W2S	2-Way Socket Wedgelocks	5	39A11019	DT06-08SA	8-Way Socket Housings	1
	39A11005	DT04-3P	3-Way Pin Housings	5	39A11020	W8S	8-Way Socket Wedgelocks	1
	39A11006	W3P	3-Way Pin Wedgelocks	5	39A11021	DT04-12PA	12-Way Pin Housings	1
	39A11007	DT06-3S	3-Way Socket Housings	5	39A11022	W12P	12-Way Pin Wedgelocks	1
	39A11008	W3S	3-Way Socket Wedgelocks	5	39A11023	DT06-12SA	12-Way Socket Housings	1
	39A11009	DT04-4P	4-Way Pin Housings	5	39A11024	W12S	12-Way Socket Wedgelocks	1
	39A11010	W4P	4-Way Pin Wedgelocks	5	37A17012	0411-310-1605	18-16 Ga. Lt Blue Removal	1
	39A11011	DT06-4S	4-Way Socket Housings	5	39A11031	114017	Plugs for DT and DTP Series	25

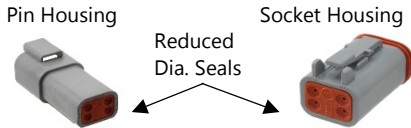
Deutsch DT Series Connectors

Specialty Housings

Select the specialty housing that has the number of circuits you need. Each of the housings are size 16, accepts 20-14 gauge wire and requires a wedgelock to hold terminals in place. The standard housings offer reliability and rugged quality. Standard black are shown below and standard gray are shown on previous page. 13 amps max. per circuit.

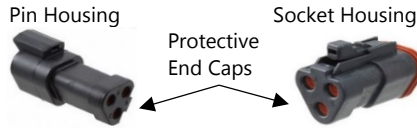
Reduced Diameter Seal Housings

The reduced diameter seal housings have a reduced diameter insert seal to allow a good seal with smaller wire insulation. It is also called an "E" seal.



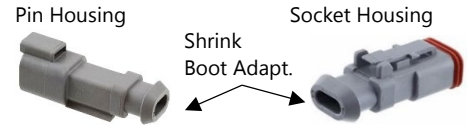
Protective End Cap Housings

The protective end cap housings have an extra cap at the rear of the housing and the holes allow the pins to be inserted.



Shrink Boot Adapter Housings

The shrink boot adapter housings have an adapter that accepts shrink tubing, which allows added protection for the wires.



Feature	Pin				Socket			
	Gray	Pkg. Qty.	Black	Pkg. Qty.	Gray	Pkg. Qty.	Black	Pkg. Qty.
2-Way Circuits	(Wedgelock #39A11002/#W2P for 2-way pin housings)				(Wedgelock #39A11004/#W2S for 2-way socket housings)			
Standard	-----	-----	DT04-2P-E004	11A59045 5	-----	-----	DT06-2S-E004	11A59055 5
Reduced Dia. Seals	DT04-2P-C015	11A59043 5	DT04-2P-CE02	11A59044 5	DT06-2S-C015	11A59053 5	-----	-----
Protective End Cap	DT04-2P-E003	11A59051 5	DT04-2P-E005	11A59052 5	DT06-2S-E003	11A59064 5	DT06-2S-E005	11A59114 5
Shrink Boot Adapt.	DT04-2P-E008	11A59160 5	-----	-----	DT06-2S-E008	11A59065 5	-----	-----
3-Way Circuits	(Wedgelock #39A11006/#W3P for 3-way pin housings)				(Wedgelock #39A11008/#W3S for 3-way socket housings)			
Standard	-----	-----	DT04-3P-E004	11A59131 1	-----	-----	DT06-3S-E004	11A59077 1
Reduced Dia. Seals	DT04-3P-C015	11A59067 5	DT04-3P-CE02	11A59074 5	DT06-3S-C015	11A59075 5	DT06-3S-CE02	11A59127 5
Protective End Cap	DT04-3P-E003	11A59090 5	DT04-3P-E005	11A59091 5	DT06-3S-E003	11A59099 5	DT06-3S-E005	11A59100 5
Shrink Boot Adapt.	DT04-3P-E008	11A59186 1	DT04-3P-EE01	11A59207 1	DT06-3S-E008	11A59287 1	-----	-----
4-Way Circuits	(Wedgelock #39A11010/#W4P for 4-way pin housings)				(Wedgelock #39A11012/#W4S for 4-way socket housings)			
Standard	-----	-----	DT04-4P-E004	11A59096 5	-----	-----	DT06-4S-E004	11A59119 1
Reduced Dia. Seals	DT04-4P-C015	11A59094 5	DT04-4P-CE02	11A59095 5	DT06-4S-C015	11A59117 1	DT06-4S-CE02	11A59118 1
Protective End Cap	DT04-4P-E003	11A59124 1	DT04-4P-E005	11A59125 1	DT06-4S-E003	11A59139 5	DT06-4S-E005	11A59140 5
Shrink Boot Adapt.	DT04-4P-E008	11A59263 1	-----	-----	DT06-4S-E008	11A59282 1	-----	-----
6-Way Circuits	(Wedgelock #39A11014/#W6P for 6-way pin housings)				(Wedgelock #39A11016/#W6S for 6-way socket housings)			
Standard	-----	-----	DT04-6P-E004	11A59171 1	-----	-----	DT06-6S-E004	11A59183 1
Reduced Dia. Seals	DT04-6P-C015	11A59169 1	DT04-6P-CE02	11A59170 1	DT06-6S-C015	11A59179 1	DT06-6S-CE02	11A59180 1
Protective End Cap	DT04-6P-E003	11A59195 1	DT04-6P-E005	11A59196 1	DT06-6S-E003	11A59201 1	DT06-6S-E005	11A59202 1
8-Way Circuits	(Wedgelock #39A11018/#W8P for 8-way pin housings)				(Wedgelock #39A11020/#W8S for 8-way socket housings)			
Standard	-----	-----	DT04-08PA-E004	11A59238 1	-----	-----	-----	-----
Reduced Dia. Seals	DT04-08PA-C015	11A59236 1	DT04-08PA-CE02	11A59237 1	DT06-08SA-C015	11A59290 1	-----	-----
Protective End Cap	DT04-08PA-E003	11A59271 1	DT04-08PA-E005	11A59272 1	DT06-08SA-E003	11A59338 1	DT06-08SA-E005	11A59339 1
Shrink Boot Adapt.	DT04-08PA-E008	11A59319 1	-----	-----	DT06-08SA-E008	11A59445 1	-----	-----
12-Way Circuits	(Wedgelock #39A11022/#W12P for 12-way pin housings)				(Wedgelock #39A11024/#W12S for 12-way socket housings)			
Standard	-----	-----	DT04-12PA-E004	11A59350 1	-----	-----	-----	-----
Reduced Dia. Seals	DT04-12PA-C015	11A59277 1	DT04-12PA-CE02	11A59349 1	DT06-12SA-C015	11A59361 1	DT06-12SA-CE02	11A59362 1
Protective End Cap	DT04-12PA-E003	11A59314 1	DT04-12PA-E005	11A59315 1	DT06-12SA-E003	11A59410 1	DT06-12SA-E005	11A59506 1
Shrink Boot Adapt.	DT04-12PA-E008	11A59519 1	-----	-----	DT06-12SA-E008	11A59529 1	-----	-----

Socket Housing Replacement Seals

Lose or damage a seal? We have replacement front seals for the socket housings.

Circuits	Seal			Fits Socket		Pkg. Qty.	Circuits	Seal			Fits Socket		Pkg. Qty.
	Deutsch #	Part #	Deutsch #	Part #	Deutsch #			Part #	Deutsch #	Part #			
2-Way	(A) 1010-009-0206	11A60792	DT06-2S	39A11003	50	6-Way	(D) 1010-017-0606	11A59240	DT06-6S	39A11015	25		
3-Way	(B) 1010-002-0306	11A60791	DT06-3S	39A11007	25	8-Way	(E) 1010-007-0806	11A59401	DT06-08S	39A11019	10		
4-Way	(C) 1010-016-0406	11A59239	DT06-4S	39A11011	25	12-Way	(F) 1010-020-1206	11A59402	DT06-12S	39A11023	10		

Small Deutsch DT Series Kit

Deutsch Kit contains 72 pieces, housings, wedgelocks, solid terminals, and 2 removal tools. Comes in a small plastic box, 11" w x 6 3/4" d x 1 3/4" h. Use OEM crimp tool #37A17001/Deutsch #HDT-48-00 or economy tool #37A17002, see page 61. 13 amps max. per circuit.

Kit Contains	Deutsch #	Description	Qty.	(Cont.)	Deutsch #	Description	Qty.
39A11027	0460-215-16141	14 Ga. Pin Terminals	25	39A11003	DT06-2S	2-Way Socket Housings	5
39A11028	0462-209-16141	14 Ga. Socket Terminals	25	39A11004	W2S	2-Way Socket Wedgelocks	5
39A11001	DT04-2P	2-Way Pin Housings	5	37A17011	DT-RT	Pick Removal Tool	1
39A11002	W2P	2-Way Pin Wedgelocks	5	37A17012	0411-310-1605	18-16 Ga. Lt Blue Removal	1



Deutsch DT Series Connectors

Deutsch DT Series Connectors

Dust Caps

Dust caps snap on and offer protection from moisture and dirt for unmated plugs. They are black and fit the pin housings. **Temporary dust caps** push on and are made to offer temporary protection. Dust caps are made of thermoplastic or plastisol.



2-Way Dust Cap



12-Way Temporary Dust Cap

Circuits	Dust Cap					Temporary Dust Cap				
	Deutsch #	Part #	Fits Housing Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Fits Housing Deutsch #	Part #	Pkg. Qty.
Pin Housings Caps										
2-Way	1011-344-0205	11A59037	DT06-2S	39A11003	5	-----	-----	-----	-----	---
3-Way	1011-345-0305	11A59048	DT06-3S	39A11007	5	DT3P-DC	11A59515	DT04-3P	39A11005	10
4-Way	1011-346-0405	11A59061	DT06-4S	39A11011	5	DT4P-DC	11A59375	DT04-4P	39A11009	10
6-Way	1011-347-0605	11A59073	DT06-6S	39A11015	5	DT6P-DC	11A59151	DT04-6P	39A11013	5
8-Way	1011-348-0805	11A59070	DT06-08S	39A11019	5	-----	-----	-----	-----	---
12-Way	1011-349-1205	11A59081	DT06-12S	39A11023	5	DT12P-DC	11A60241	DT04-12PA	39A11021	5
12-Way, Black	-----	-----	-----	-----	---	DT12P-DC-BK	11A60242	DT04-12PA	39A11021	5
Socket Housings Caps										
12-Way	-----	-----	-----	-----	---	DT12S-DC	11A60291	DT06-12SA	39A11023	5

Housing Boots

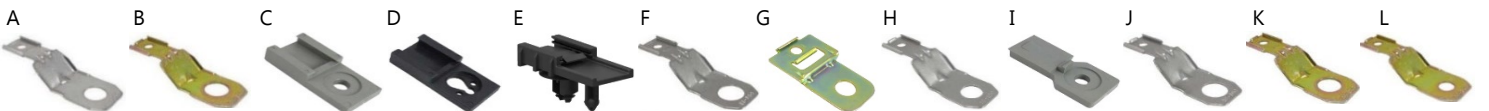
Housing boots protect your connections from harsh environments and chemical spray. Boots come in gray, black and yellow.



Housing Circuits	Gray			Black			Yellow		
	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
Pin Housing Boots									
2-Way	DT2P-BT	11A60282	5	DT2P-BT-BK	11A59060	5	DT2P-BT-YW	11A59538	5
3-Way	DT3P-BT	11A59939	5	DT3P-BT-BK	11A60452	5	DT3P-BT-YW	11A60453	5
4-Way	DT4P-BT	11A60243	5	DT4P-BT-BK	11A60244	5	DT4P-BT-YW	11A60245	5
6-Way	DT6P-BT	11A59604	5	DT6P-BT-BK	11A60457	5	DT6P-BT-YW	11A60458	5
8-Way	DT8P-BT	11A60197	5	DT8P-BT-BK	11A60399	1	-----	-----	---
12-Way	DT12P-BT	11A60521	5	DT12P-BT-BK	11A60397	1	DT12P-BT-YW	11A59633	5
Socket Housing Boots									
2-Way	DT2S-BT	11A60370	5	DT2S-BT-BK	11A59029	10	DT2S-BT-YW	11A59690	5
3-Way	DT3S-BT	11A60454	5	DT3S-BT-BK	11A60455	10	DT3S-BT-YW	11A60456	5
4-Way	DT4S-BT	11A60506	5	DT4S-BT-BK	11A59667	10	DT4S-BT-YW	11A60836	5
6-Way	DT6S-BT	11A59581	5	DT6S-BT-BK	11A59679	5	DT6S-BT-YW	11A60251	5
8-Way	DT8S-BT	11A60184	5	DT8S-BT-BK	11A60400	5	-----	-----	---
12-Way	DT12S-BT	11A59709	5	DT12S-BT-BK	11A60398	1	DT12S-BT-YW	11A59634	5

Mounting Clips

Mounting clips attach to the pin housings to mount Deutsch connectors and provide a secure connection to your project.



Deutsch #	Material	Hole Diameter	Part #	Pkg. Qty.	Deutsch #	Material	Hole Diameter	Part #	Pkg. Qty.
Fit 2, 3, 4, 5 & 12-Way Circuit Pin Housings					Fit 8-Way Circuit Pin Housings				
(A) 1027-003-1200	Stainless Steel	0.433"	11A60225	1	(H) 1027-001-0800	Stainless Steel	0.433"	11A59268	1
(B) 1027-004-1200	Zinc plated Steel	0.512"	11A59248	1	(I) 1011-027-0805	Thermoplastic, Gray	0.200"	11A59047	5
(C) 1011-026-0205	Thermoplastic, Gray	0.200"	11A59218	10	(J) 1027-006-0800	Stainless Steel	0.512"	11A59245	1
(D) 1011-030-0205	Thermoplastic, Black	0.250"	11A59019	10	(K) 1027-002-0800	Zinc plated Steel	0.512"	11A59244	1
(E) 1011-310-0205	Thermoplastic, Black	-----	11A59301	5	(L) 1027-014-0800	Zinc plated Steel	0.323"	11A59178	1
(F) 1027-005-1200	Stainless Steel	0.512"	11A60322	1					
(G) 1027-008-1200	Zinc plated Steel	0.433"	11A59794	5					
(G) 1027-017-1200	Zinc plated Steel	0.323"	11A59795	5					

Deutsch DTV Series Connectors

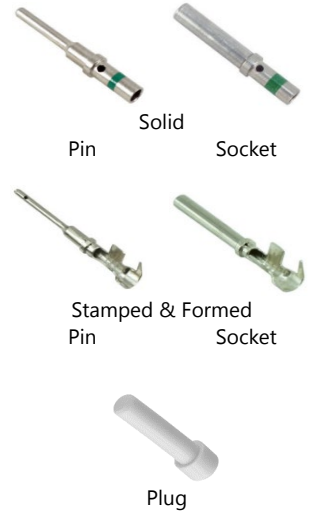
Deutsch DTV Series Connectors

The DEUTSCH DTV series similar to the DT series, with an 18 cavity flanged design. 13 amps max. per circuit.

Terminals

Select the terminal that fits your wire size. Terminals are Deutsch size 16. Use a plug in place of a terminal to fill an empty slot. Crimp solid terminals with the OEM tool #37A17001/Deutsch #HDT-48-00, see page 61. Use release tool #37A17012/Deutsch #0411-310-1605. For stamped and formed terminal crimpers see page 61. Stamped terminals are available on reels.

Wire Size (AWG)	Feature	Material	Pin			Socket		
			Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
Solid								
20-16	Standard	Nickel	0460-202-16141	39A11025	25	0462-201-16141	39A11026	25
20-16	High Conductivity	Gold	0460-202-1631	39A11029	10	0462-201-1631	39A11030	10
20-16	Extended Crimp	Nickel	4602-471-6141	11A60126	1	-----	-----	---
20-16	Extended Crimp	Gold	0460-247-1631	11A60275	1	0462-221-1631	11A60598	1
14	Std. Green Band	Nickel	0460-215-16141	39A11027	25	0462-209-16141	39A11028	10
14	High Conductivity	Gold	0460-215-1631	39A11037	10	0462-209-1631	39A11036	10
Stamped and Formed, Reel								
20-16	Standard	Nickel	1060-16-0622	11A60327	25	1062-16-0622	11A60705	10
20-16	High Conductivity	Gold	1060-16-0644	11A60689	10	1062-16-0644	11A60735	10
18-14	Standard	Nickel	1060-16-0122	11A60373	25	1062-16-0122	11A60704	10
18-14	-----	Nickel	1060-14-0122	11A60372	25	1062-14-0122	11A60709	10
18-14	High Conductivity	Gold	1060-14-0144	11A60698	10	1062-14-0144	11A60737	10
18-14	High Conductivity	Gold	1060-16-0144	11A60688	10	1062-16-0144	11A60734	10
18-14	High Conductivity	Gold	1060-16-0988	11A60738	10	1062-16-0988	11A60741	10
16-12	Standard	Nickel	1060-16-1222	11A60367	25	1062-16-1222	11A60713	10
16-12	-----	Nickel	-----	-----	---	1062-16-1422	11A60700	10



Housings

Wire gauge 20-14. Sealed flange, gasket and end cap. Each of the housings are Deutsch size 16 and accept 20-14 gauge wires. Requires a wedgelock to hold terminals in place. Key configurations prevent mismatching and ensures pin housings and socket housings are aligned correctly.



Key Conf.	Pin				Socket									
	Housing Deutsch #	Part #	Pkg. Color	Wedgelock Deutsch #	Pkg. Qty.	Housing Deutsch #	Part #	Pkg. Color	Wedgelock Deutsch #	Pkg. Qty.				
18-Way Circuits														
A	DTV02-18PA	11A60748	Gray	1	WV-18P	11A59022	1	DTV06-18SA	11A60755	Gray	1	WV-18S	11A59026	1
B	DTV02-18PB	11A60749	Black	1	WV-18P	11A59022	1	DTV06-18SB	11A60756	Black	1	WV-18S	11A59026	1
C	DTV02-18PC	11A60750	Green	1	WV-18P	11A59022	1	DTV06-18SC	11A60757	Green	1	WV-18S	11A59026	1
D	DTV02-18PD	11A60751	Brown	1	WV-18P	11A59022	1	DTV06-18SD	11A60758	Brown	1	WV-18S	11A59026	1

Connector Boots

Housing boots protect your connections from harsh environments and chemical spray. Boots come in black.

Circuits	Pin			Socket		
	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
18-Way	DTV18P-BT-BK	11A59869	5	DTV18S-BT-BK	11A60070	5



Deutsch Connectors Performance Specifications

Deutsch Housings Properties	
Temperature	Operating at temperatures from -67° F to +257° F
Moisture Resistance	Properly wired and mated connections will withstand immersion under three feet of water without loss of electronic qualities or leakage.

Deutsch Terminal Current Rating			
Deutsch Size	Max. Current	Deutsch Size	Max. Current
20	7.5 amps	8	60 amps
16	13 amps	4	100 amps
12	25 amps		

Deutsch DTP Series Connectors & Kit

Deutsch DTP Series Connectors

Deutsch's DTP Series connectors are the solution for your power application requirements. Building on the DT series design strengths, the DTP connector line was developed for higher amperage applications, up to 25 amps max. per circuit.

Terminals

Select the terminal that fits your wire size. Terminals are Deutsch size 12. Use a plug in place of a terminal to fill an empty slot. Crimp solid terminals with the OEM tool #37A17001/Deutsch #HDT-48-00, see page 61. Use release tool #37A17014/Deutsch #114010. For stamped and formed terminal crimpers see page 61. Stamped terminals are available on reels.

Wire Size (AWG)	Feature	Material	Pin			Socket		
			Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
Solid								
18-16	High Conductivity	Gold	0460-256-12233	11A60302	1	-----	-----	---
14-12	Standard	Nickel	0460-204-12141	39A13009	10	0462-203-12141	39A13010	10
14-12	High Conductivity	Gold	0460-220-1231	11A59778	1	0462-210-1231	11A60125	1
14-12	High Conductivity	Gold	-----	-----	---	0462-215-1231	11A59756	5
Stamped and Formed, Reel								
14-12	Standard	Nickel	1060-12-0166	11A60493	10	1062-12-0166	11A60710	10
14-12	High Conductivity	Gold	1060-12-0144	11A60492	1	1062-12-0144	11A60494	10
10	Standard	Nickel	1060-12-0222	11A60311	10	1062-12-0222	11A60565	10
Plug for empty slot #39A11031/Deutsch #114017 (25/pkg.)								

Housings

Select the housing that has the number of circuits you need. Each of the housings are size 12, accepts 14-10 gauge wire and requires a wedgelock to hold terminals in place.

Circuits	Pin			Socket		
	Housing Deutsch #	Part #	Pkg. Qty.	Wedgelock Deutsch #	Part #	Pkg. Qty.
2-Way	DTP04-2P	39A13001	1	WP-2P	39A13002	10
4-Way	DTP04-4P	39A13005	1	WP-4P	39A13006	10

Specialty Housings

Select the specialty housing that has the number of circuits you need. Each of the housings are Deutsch size 12, accepts 14-10 gauge wire and requires a wedgelock to hold terminals in place. The standard housings offer reliability and rugged quality. Standard black housings are shown below and standard gray are shown above.

Reduced Diameter Seal Housings

The reduced diameter seal housings have a reduced diameter insert seal to allow a good seal with smaller wire insulation. It is also called an "E" seal.

Protective End Cap Housings

The protective end cap housings have an extra cap at the rear of the housing and the holes allow the pins to be inserted.

Shrink Boot Adapter Housings

The shrink boot adapter housings have an adapter that accepts shrink tubing, which allows added protection for the wires.

Feature	Pin			Socket					
	Gray	Pkg. Qty.	Black	Gray	Pkg. Qty.	Black			
2-Way Circuits	(Wedgelock #39A13002/#WP-2P for 2-way pin housings)			(Wedgelock #39A13004/#WP-2S for 2-way socket housings)					
Standard	-----	-----	DTP04-2P-E004	11A59479	1	DTP06-2S-E004	11A59381	1	
Reduced Dia. Seals	DTP04-2P-C015	11A60575	1	-----	-----	DTP06-2S-C015	11A60226	1	
Protective End Cap	DTP04-2P-E003	11A59477	1	-----	-----	DTP06-2S-E003	11A59385	1	
Shrink Boot Adapt.	-----	-----	DTP04-2P-EE01	11A59480	1	-----	DTP06-2S-EE01	11A59436	1
4-Way Circuits	(Wedgelock #39A13006/#WP-4P for 4-way pin housings)			(Wedgelock #39A13008/#WP-4S for 4-way socket housings)					
Standard	-----	-----	DTP04-4P-E004	11A60410	1	-----	DTP06-4S-E004	11A60293	1
Reduced Dia. Seals	DTP04-4P-C015	11A59512	1	-----	-----	DTP06-4S-C015	11A59441	1	
Protective End Cap	DTP04-4P-E003	11A59607	1	-----	-----	DTP06-4S-E003	11A59561	1	
Shrink Boot Adapt.	-----	-----	-----	-----	-----	-----	DTP06-4S-EE01	11A59469	1

Deutsch DTP Series Kit

This kit contains all of the DTP series housings, wedgelocks, and pin and socket solid terminals you need to create a connection - 13 items, over 100 pieces in a small plastic box, 11" w x 6 3/4" d x 1 3/4" h. Use OEM crimp tool #37A17001/#HDT-48-00, see page 61. 25 amps max. per circuit.

Part #	Kit Contains	Deutsch #	Description	Qty.	(Cont.)	Deutsch #	Description	Qty.	
		39A13009	0460-204-12141	14-12 Ga. Pin Terminals	25	39A13006	WP-4P	4-Way Pin Wedgelocks	5
		39A13010	0462-203-12141	14-12 Ga. Socket Terminals	25	39A13007	DTP06-4S	4-Way Socket Housings	5
		39A13001	DTP04-2P	2-Way Pin Housings	5	39A13008	WP-4S	4-Way Socket Wedgelocks	5
		39A13002	WP-2P	2-Way Pin Wedgelocks	5	37A17014	114010	Deutsch 12 Ga. Yellow Removal Tool	1
		39A13003	DTP06-2S	2-Way Socket Housings	5	37A17011	DT-RT	Pick Removal Tool	1
39A14003		39A13004	WP-2S	2-Way Socket Wedgelocks	5	39A11031	114017	Plugs for DT & DTP Series	25
		39A13005	DTP04-4P	4-Way Pin Housings	5				

Deutsch DTP & DTHD Series Connectors

Deutsch DTP Series Connectors

Housing Boots

Housing boots protect your connections from harsh environments and chemical spray. Boots come in gray and black.



2-Way Gray
Pin Boot



2-Way Black
Pin Boot



4-Way Gray
Socket Boot

Circuits	Pin			Socket		
	Gray	Pkg. Qty.	Black	Gray	Pkg. Qty.	Black
2-Way	DTP2P-BT	11A59584	5	DTP2P-BT-BK	11A59585	5
4-Way	DTP4P-BT	11A59619	5	-----	-----	---

DTP & DTHD Mounting Clips

Mounting clips attach to the pin housings to mount Deutsch connectors and provide a secure connection to your project.



Deutsch #	Material	Hole Diameter	Part #	Pkg. Qty.	Deutsch #	Material	Hole Diameter	Part #	Pkg. Qty.
-----------	----------	---------------	--------	-----------	-----------	----------	---------------	--------	-----------

Fit 2, 3, 4, 5 & 12-Way Circuit Pin Housings

(A) 1027-003-1200	Stainless Steel	0.433"	11A60225	1
(B) 1027-004-1200	Zinc Plated Steel	0.512"	11A59248	1
(C) 1011-026-0205	Thermoplastic, Gray	0.200"	11A59218	10
(D) 1011-030-0205	Thermoplastic, Black	0.250"	11A59019	10

(Cont.)

(E) 1011-310-0205	Thermoplastic, Black	-----	11A59301	5
(F) 1027-005-1200	Stainless Steel	0.512"	11A60322	1
(G) 1027-008-1200	Zinc Plated Steel	0.433"	11A59794	5
(G) 1027-017-1200	Zinc Plated Steel	0.323"	11A59795	5

Deutsch Single Terminal Connectors

Use DTHD series connectors and Jiffy Splices when single terminal connections are needed. One pin and one socket. They provide connections that seal out the elements. Size 6 ga. terminals are max. 100 amps, size 10-8 ga. terminals are max. 60 amps and 14-10 ga. terminals are max. 25 amps per circuit.

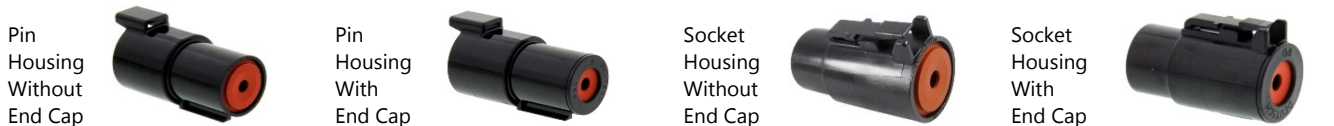
DTHD Series Terminals

Select the terminal that fits your wire size and matches the Deutsch size. Solid terminals are shown below. For Deutsch size 16 and 12 use tool #37A17001/Deutsch #HDT-48-00 and for Deutsch size 8 and 4 use tool #37A22100/Deutsch #HDT-04-08-E. See page 61.

Wire Size (AWG)	Deutsch Size	Feature	Material	Pin			Socket			Solid Pin	Solid Socket
				Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.		
20-16	16	Standard	Nickel	0460-202-16141	39A11025	25	0462-201-16141	39A11026	25		
20-16	16	High Conductivity	Gold	0460-202-1631	39A11029	10	0462-201-1631	39A11030	10		
14	16	Std. Green Band	Nickel	0460-215-16141	39A11027	25	0462-209-16141	39A11028	10		
14	16	High Conductivity	Gold	0460-215-1631	39A11037	10	0462-209-1631	39A11036	10		
14-12	12	Standard	Nickel	0460-204-12141	39A13009	10	0462-203-12141	39A13010	10		
14-12	12	High Conductivity	Gold	0460-220-1231	11A59778	1	0462-210-1231	11A60125	1		
10-8	8	Standard	Nickel	0460-204-08141	39A13013	1	0462-203-08141	39A13014	1		
6	4	Standard	Nickel	0460-204-0490	39A13011	1	0462-203-04141	39A13012	1		

DTHD Series Housings

DTHD connectors are 1-way circuits used for heavy duty applications. They are an alternative to a splice and are mounted in-line. End caps provide an extra protection.



Wire Size (AWG)	Deutsch Size	Without End Cap	Pkg. Qty.	Pin		Pkg. Qty.	Socket		Pkg. Qty.				
				With End Cap	Part #		Without End Cap	Part #					
14-10	12	DTHD04-1-12P	11A60292	1	DTHD04-1-12P-E003	11A60286	1	DTHD06-1-12S	11A60287	1	DTHD06-1-12S-E003	11A60307	1
10-8	8	DTHD04-1-8P	11A60383	1	DTHD04-1-8P-E003	11A59482	1	DTHD06-1-8S	11A60368	1	DTHD06-1-8S-E003	11A60519	1
6	4	DTHD04-1-4P	11A60466	1	DTHD04-1-4P-E003	11A60618	1	DTHD06-1-4S	11A60375	1	DTHD06-1-4S-E003	11A60613	1

Jiffy Splices

In-line Jiffy splice connectors are a high-quality alternative to permanent splices and stand up to harsh conditions. They are easy to install with standard tools and easy to remove with the correct removal tool. Simply insert one pin terminal in one side and the mating socket terminal in the other to have a complete connection.

Wire Size (AWG)	Deutsch Size	Jiffy Splice			Jiffy Splice Removal Tool		#37A17012	#37A17014
		Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #		
20-14	16	JS-16-00	39A11032	1	0411-310-1605	37A17012		
14-10	12	JS-12-00	11A59442	1	114010	37A17014		

Deutsch DTM Series Connectors & Kit

Deutsch DTM Series Connectors

Deutsch's DTM series connectors are small by design and fit tight places, like motorcycles and boat motors. Each of the housings are Deutsch size 20, accepts 22-16 gauge wire and requires a wedgelock to hold terminals in place. 7.5 amps max. per circuit.

Terminals

Select the terminal that fits your wire size. Terminals are Deutsch size 16. Use a plug in place of a terminal to fill an empty slot. Crimp solid terminals with the OEM tool **#37A17001**/Deutsch #HDT-48-00, see page 61. Release tool #37A17013/Deutsch #0411-240-2005. For stamped and formed terminal crimpers see page 61. Stamped terminals are available on reels.

Wire Size (AWG)	Feature	Material	Pin			Socket		
			Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
Solid								
20	Standard	Nickel	0460-202-20141	39A12001	10	0462-201-20141	39A12002	10
20	High Conductivity	Gold	0460-202-2031	11A59557	5	0462-201-2031	11A59610	1
18-16	Standard	Nickel	0460-010-20141	39A12027	5	0462-005-20141	39A12028	5
18-16	High Conductivity	Gold	0460-010-2031	11A59865	5	0462-005-2031	11A60107	1
Stamped and Formed, Reel								
22-16	Standard	Nickel	1060-20-0122	11A60463	25	1062-20-0122	11A60671	10
Plug for empty slot #39A11033/Deutsch #0413-204-2005 (25/pkg.)								

Housings

Select the housing that has the number of circuits you need. Each of the DTM housings are Deutsch size 20, accepts 22-16 gauge wire and require a wedgelock to hold terminals in place.

Circuits	Housing			Wedgelock			Housing			Wedgelock		
	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
2-Way	DTM04-2P	39A12003	5	WM-2P	39A12004	10	DTM06-2S	39A12005	5	WM-2S	39A12006	10
3-Way	DTM04-3P	39A12007	1	WM-3P	39A12008	5	DTM06-3S	39A12009	1	WM-3S	39A12010	5
4-Way	DTM04-4P	39A12011	1	WM-4P	39A12012	5	DTM06-4S	39A12013	1	WM-4S	39A12014	5
6-Way	DTM04-6P	39A12015	1	WM-6P	39A12016	5	DTM06-6S	39A12017	1	WM-6S	39A12018	5
8-Way	DTM04-08PA	39A12019	1	WM-8P	39A12020	5	DTM06-08SA	39A12021	1	WM-8S	39A12022	5
12-Way	DTM04-12PA	39A12023	1	WM-12P	39A12024	5	DTM06-12SA	39A12025	1	WM-12S	39A12026	5

Socket Housing Replacement Seals



Lose or damage a seal, we have replacement front seals for the socket housings.

Circuits	Deutsch			Fits Deutsch			Pkg. Qty.	Circuits	Deutsch			Fits Deutsch			Pkg. Qty.
	Seal #	Part #		Socket #	Part #				Seal #	Part #		Socket #	Part #		
2-Way	1010-033-0206	11A59027		DTM04-2P	39A12003		10	6-Way	1010-038-0606	11A59085		DTM04-6P	39A12015		5
3-Way	1010-044-0306	11A59447		DTM04-3P	39A12007		10	8-Way	1010-040-0806	11A59617		DTM04-08P	39A12019		5
4-Way	1010-036-0406	11A59038		DTM04-4P	39A12011		5	12-Way	1010-042-1206	11A59618		DTM04-12P	39A12023		5

Deutsch DTM Series Kit



Part #
39A14002

This kit contains all of the DTM series housings, wedgelocks, and pin and socket solid terminals you need to create a connection - 31 items, over 200 pieces in a large metal box, 18"w x 12"d x 3"h. Use OEM tool **#37A17001**/Deutsch #HDT-48-00, see page 61. 7.5 amps max. per circuit.

Kit Contains	Deutsch #	Description	Qty.	(Cont.)	Deutsch #	Description	Deutsch #	Qty.
39A12001	0460-202-20141	20 Ga. Pin Terminals	25	39A12015	DTM04-6P	6-Way Pin Housings		3
39A12002	0462-201-20141	20 Ga. Socket Terminals	25	39A12016	WM-6P	6-Way Pin Wedgelocks		3
39A12027	0460-010-20141	18-16 Ga. Pin Terminals	25	39A12017	DTM06-6S	6-Way Socket Housings		3
39A12028	0462-005-20141	18-16 Ga. Socket Terminals	25	39A12018	WM-6S	6-Way Socket Wedgelocks		3
39A12003	DTM04-2P	2-Way Pin Housings	5	39A12019	DTM04-08PA	8-Way Pin Housings		3
39A12004	WM-2P	2-Way Pin Wedgelocks	5	39A12020	WM-8P	8-Way Pin Wedgelocks		3
39A12005	DTM06-2S	2-Way Socket Housings	5	39A12021	DTM06-08SA	8-Way Socket Housings		3
39A12006	WM-2S	2-Way Socket Wedgelocks	5	39A12022	WM-8S	8-Way Socket Wedgelocks		3
39A12007	DTM04-3P	3-Way Pin Housings	5	39A12023	DTM04-12PA	12-Way Pin Housings		3
39A12008	WM-3P	3-Way Pin Wedgelocks	5	39A12024	WM-12P	12-Way Pin Wedgelocks		3
39A12009	DTM06-3S	3-Way Socket Housings	5	39A12025	DTM06-12SA	12-Way Socket Housings		3
39A12010	WM-3S	3-Way Socket Wedgelocks	5	39A12026	WM-12S	12-Way Socket Wedgelocks		3
39A12011	DTM04-4P	4-Way Pin Housings	5	37A17013	0411-240-2005	Deutsch 24-20 Ga. Red Removal Tool		1
39A12012	WM-4P	4-Way Pin Wedgelocks	5	37A17012	0411-310-1605	Deutsch 18-16 Ga. Lt Blue Removal Tool		1
39A12013	DTM06-4S	4-Way Socket Housings	5	39A11033	0413-204-2005	Plugs for DTM Series		25
39A12014	WM-4S	4-Way Socket Wedgelocks	5					

Deutsch DTM Series Connectors

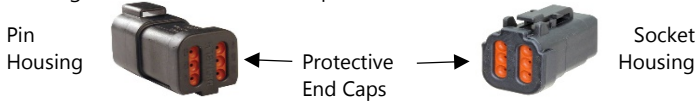
Deutsch DTM Series Connectors

Specialty Housings

Select the specialty housing that has the number of circuits you need. Each of the housings are size 20, accepts 22-16 gauge wire and requires a wedgelock to hold terminals in place. The standard housings offer reliability and rugged quality. Standard black are shown below and standard gray are shown on previous page.

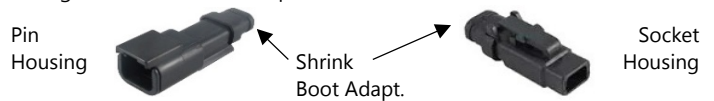
Protective End Cap Housings

The protective end cap housings have an extra cap at the rear of the housing and the holes allow the pins to be inserted.



Shrink Boot Adapter Housings

The shrink boot adapter housings have an adapter that accepts shrink tubing, which allows added protection for the wires.



Feature	Pin Housing			Wedgelock			Socket Housing			Wedgelock		
	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
2-Way Circuits, Gray												
Protective End Cap	DTM04-2P-E003	11A59227	1	WM-2P	39A12004	10						
Shrink Boot Adapter	DTM04-2P-E007	11A60158	1	WM-2P	39A12004	10	DTM06-2S-E003	11A59133	5	WM-2S	39A12006	10
2-Way Circuits, Black												
Standard	DTM04-2P-E004	11A59859	5	WM-2P	39A12004	10	DTM06-2S-E004	11A59086	5	WM-2S	39A12006	10
Protective End Cap	DTM04-2P-E005	11A60202	1	WM-2P	39A12004	10	DTM06-2S-E005	11A60060	1	WM-2S	39A12006	10
Shrink Boot Adapter	DTM04-2P-EE03	11A60078	1	WM-2P	39A12004	10	DTM06-2S-EE03	11A59188	1	WM-2S	39A12006	10
3-Way Circuits, Gray												
Protective End Cap	DTM04-3P-E003	11A59161	5	WM-3P	39A12008	5	-----	-----	---	-----	-----	---
3-Way Circuits, Black												
Standard	DTM04-3P-E004	11A59973	1	WM-3P	39A12008	5	DTM06-3S-E004	11A59701	5	WM-3S	39A12010	5
Protective End Cap	DTM04-3P-E005	11A59328	1	WM-3P	39A12008	5	-----	-----	---	-----	-----	---
Shrink Boot Adapter	-----	-----	---	-----	-----	---	DTM06-3S-E007	11A59208	1	WM-3S	39A12010	5
4-Way Circuits, Gray												
Protective End Cap	DTM04-4P-E003	11A59396	1	WM-4P	39A12012	5	-----	-----	---	-----	-----	---
4-Way Circuits, Black												
Standard	DTM04-4P-E004	11A60264	1	WM-4P	39A12012	5	DTM06-4S-E004	11A60212	1	WM-4S	39A12014	5
Protective End Cap	DTM04-4P-E005	11A60432	1	-----	39A12012	5	-----	-----	---	-----	-----	---
Shrink Boot Adapter	-----	-----	---	-----	-----	---	DTM06-4S-E007	11A59258	1	WM-4S	39A12014	5
6-Way Circuits, Gray												
Protective End Cap	DTM04-6P-E003	11A59397	1	WM-6P	39A12016	5	-----	-----	---	-----	39A12018	---
Shrink Boot Adapter	-----	-----	---	-----	-----	---	DTM06-6S-E007	11A59284	1	WM-6S	39A12018	5
6-Way Circuits, Black												
Standard	DTM04-6P-E004	11A60607	1	WM-6P	39A12016	5	DTM06-6S-E004	11A60182	1	WM-6S	39A12018	5
Protective End Cap	DTM04-6P-E005	11A60623	1	WM-6P	39A12016	5	DTM06-6S-E005	11A60265	1	WM-6S	39A12018	5
Shrink Boot Adapter	-----	-----	---	-----	-----	---	DTM06-6S-EE03	11A60266	1	WM-6S	39A12018	5
8-Way Circuits, Gray												
Protective End Cap	DTM04-08PA-E003	11A59674	1	WM-8P	39A12020	5	-----	-----	---	-----	39A12022	---
Shrink Boot Adapter	-----	-----	---	-----	-----	---	DTM06-08SA-E007	11A60281	1	WM-8S	39A12022	5
8-Way Circuits, Black												
Protective End Cap	DTM04-08PA-E005	11A60621	1	WM-8P	39A12020	5	-----	-----	---	-----	-----	---
12-Way Circuits, Gray												
Protective End Cap	DTM04-12PA-E003	11A59591	1	WM-12P	39A12024	5	DTM06-12SA-E003	11A60142	1	WM-12S	39A12026	5
Shrink Boot Adapter	-----	-----	---	-----	-----	---	DTM06-12SA-E007	11A59380	1	WM-12S	39A12026	5
12-Way Circuits, Black												
Protective End Cap	DTM04-12PA-E005	11A60622	1	WM-12P	39A12024	5	-----	-----	---	-----	-----	---

High-Temperature Housings

DTM series EE04 modification connectors are high-temperature housings sealed from the environment. They have operating temperatures of -67°F to over 300°F. Deutsch size 20, accepts 22-16 gauge wire, black and require a wedgelock.

Feature	Pin Housing			Wedgelock			Socket Housing			Wedgelock		
	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
6-Way Circuits	DTM04-6P-EE04	11A59417	1	WM-6P	39A12016	1	-----	-----	---	-----	-----	---
8-Way Circuits, key A	DTM04-08PA-EE04	11A59465	1	WM-8P	39A12020	1	DTM06-08SA-EE04	11A59231	1	WM-8S	39A12022	1
12-Way Circuits, key A	-----	-----	---	-----	-----	---	DTM06-12SA-EE04	11A59369	1	WM-12S	39A12026	1

Temporary Dust Caps

Temporary dust caps push on to offer temporary protection from moisture and dirt for unmated plugs. Temporary dust caps are made of plastisol.

Circuits	Pin Fits Pin Housing			Pkg. Qty.	Circuits	Socket Fits Socket Housing			Pkg. Qty.		
	Deutsch #	Part #	Deutsch #			Part #	Deutsch #	Part #			
12-Way	DTM12P-DC	11A60073	DTM04-12P	39A12023	10	3-Way	DTM3S-DC	11A60495	DTM06-3S	39A12009	5

Deutsch DTM, DTMH & DTMN Series Connectors

Deutsch DTM Series Connectors

Housing Boots

Housing boots protect your connections from harsh environments and chemical spray. Boots come in gray and black.



2-Way Gray
Pin Boot



12-Way Black
Pin Boot



4-Way Gray
Socket Boot

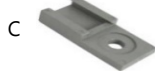


8-Way Black
Socket Boot

Circuits	Pin						Socket					
	Gray Boots			Black Boots			Gray Boots			Black Boots		
	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
2-Way	DTM2P-BT	11A60350	5	DTM2P-BT-BK	11A60351	5	DTM2S-BT	11A60004	5	DTM2S-BT-BK	11A60005	5
3-Way	DTM3P-BT	11A60006	5	-----	-----	---	DTM3S-BT	11A60007	5	DTM3S-BT-BK	11A60008	5
4-Way	DTM4P-BT	11A60009	5	-----	-----	---	DTM4S-BT	11A60010	5	-----	-----	5
6-Way	DTM6P-BT	11A60011	5	-----	-----	---	DTM6S-BT	11A60012	5	-----	-----	5
8-Way	DTM8P-BT	11A60231	5	-----	-----	---	DTM8S-BT	11A60232	5	DTM8S-BT-BK	11A60233	5
12-Way	DTM12P-BT	11A60167	5	DTM12P-BT-BK	11A60195	5	DTM12S-BT	11A59567	5	DTM12S-BT-BK	11A60041	5

DTM Mounting Clips

Mounting clips attach to the pin housings to mount Deutsch connectors and provide a secure connection to your project.



Deutsch #	Material	Hole Dia.	Part #	Pkg. Qty.	Deutsch #	Material	Hole Dia.	Part #	Pkg. Qty.
Fit 2, 3, 4, 5 & 12-Way Circuit Pin Housings					(Cont.)				
(A) 1027-003-1200	Stainless Steel	0.433"	11A60225	1	(E) 1011-310-0205	Thermoplastic, Black	-----	11A59301	5
(B) 1027-004-1200	Zinc Plated Steel	0.512"	11A59248	1	(F) 1027-005-1200	Stainless Steel	0.512"	11A60322	1
(C) 1011-026-0205	Thermoplastic, Gray	0.200"	11A59218	10	(G) 1027-008-1200	Zinc plated Steel	0.433"	11A59794	5
(D) 1011-030-0205	Thermoplastic, Black	0.250"	11A59019	10	(G) 1027-017-1200	Zinc plated Steel	0.323"	11A59795	5

Deutsch DTMH Series High Temperature Connectors

The DTMH series high-temperature connectors are sealed from the environment. They have operating temperatures of -67°F to over 300°F. These connectors are black and have a joined TPA for easy assembly. Each of the housings are Deutsch size 20 and accepts 22-16 gauge wire.



Key Conf.	Pin						Socket					
	2-Way Circuits	Pkg.		4-Way Circuits	Pkg.		2-Way Circuits	Pkg.		4-Way Circuits	Pkg.	
Deutsch #	Part #	Qty.	Deutsch #	Part #	Qty.	Deutsch #	Part #	Qty.	Deutsch #	Part #	Qty.	
A	DTMH04-2PA	11A59358	1	DTMH04-4PA	11A59376	1	DTMH06-2SA	11A59232	1	DTMH06-4SA	11A60840	1
B	DTMH04-2PB	11A59359	1	-----	-----	1	DTMH06-2SB	11A59233	1	DTMH06-4SB	11A60841	1
C	DTMH04-2PC	11A59360	1	DTMH04-4PC	11A60838	1	DTMH06-2SC	11A59234	1	DTMH06-4SC	11A60842	1
D	DTMH04-2PD	11A60837	1	DTMH04-4PD	11A60839	1	DTMH06-2SD	11A59235	1	DTMH06-4SD	11A60843	1

Deutsch DTMN Series Connectors

The DTMN is a non-environmental connector offering good quality and reliability when a sealed connector is not required. Each of the housings are Deutsch size 20 and accepts 22-16 gauge wire.



Circuits	Pin Housing			Socket Housing		
	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
2-Way	DTMN04-2P	11A59827	5	DTMN06-2S	11A59828	5

Deutsch DTMH & DTMN Series Terminals

Select the terminal that fits your wire size and matches the Deutsch size 20.

Wire Size (AWG)	Deutsch Size	Feature	Material	Pin			Socket		
				Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
Solid									
20	20	Standard	Nickel	0460-202-20141	39A12001	10	0462-201-20141	39A12002	10
20	20	High Conductivity	Gold	0460-202-2031	11A59557	5	0462-201-2031	11A59610	1
18-16	20	Standard	Nickel	0460-010-20141	39A12027	5	0462-005-20141	39A12028	5
18-16	20	High Conductivity	Gold	0460-010-2031	11A59865	5	0462-005-2031	11A60107	1
Stamped and Formed, Reel									
22-16	20	Standard	Nickel	1060-20-0122	11A60463	25	1062-20-0122	11A60671	10
22-16	20	High Conductivity	Gold	1060-20-0144	11A60720	10	1062-20-0144	11A60736	10
22-16	20	Standard	Nickel	1060-20-0222	11A60385	25	1062-20-0222	11A60706	25
22-16	20	High Conductivity	Gold	1060-20-0244	11A60740	10	1062-20-0244	11A60739	10

Deutsch HD10 Series Connectors

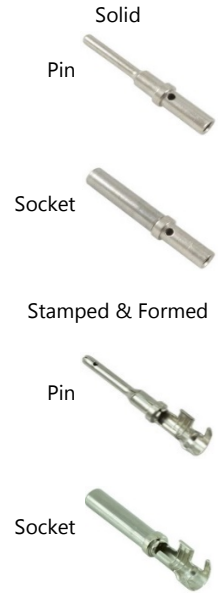
HD10 Series Connectors

The HD10 series are round, thermoplastic, and sealed to keep out the environment. HD10 series are not compatible with the HD30 and HDP30 series.

Terminals

Select the terminal that fits your wire size. Use a plug in place of a terminal to fill an empty slot. Crimp solid terminals with the OEM tool #37A17001/Deutsch #HDT-48-00, see page 61. Use release tool #37A17012/Deutsch #0411-310-1605 for Deutsch size 16 and #37A17014/Deutsch #114010 for Deutsch size 12. For stamped and formed terminal crimpers see page 61. Stamped terminals are available on reels.

Wire Size (AWG)	Deutsch Size	Feature	Material	Pin			Socket		
				Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
Solid									
20-16	16	Standard	Nickel	0460-202-16141	39A11025	25	0462-201-16141	39A11026	25
20-16	16	High Conductivity	Gold	0460-202-1631	39A11029	10	0462-201-1631	39A11030	10
20-16	16	Extended Crimp	Nickel	0460-247-16141	11A60126	1	-----	-----	---
20-16	16	Extended Crimp	Gold	0460-247-1631	11A60275	1	0462-221-1631	11A60598	1
20-16	16	Extended Interface	Nickel	0460-264-16141	11A60039	1	-----	-----	---
14	16	Std. Green Band	Nickel	0460-215-16141	39A11027	25	0462-209-16141	39A11028	10
14	16	High Conductivity	Gold	0460-215-1631	39A11037	10	0462-209-1631	39A11036	10
Stamped and Formed, Reel									
20-16	16	Standard	Nickel	1060-16-0622	11A60327	25	1062-16-0622	11A60705	10
20-16	16	High Conductivity	Gold	1060-16-0644	11A60689	10	1062-16-0644	11A60735	10
18-14	16	Standard	Nickel	1060-16-0122	11A60373	25	1062-16-0122	11A60704	10
18-14	16	High Conductivity	Gold	1060-16-0144	11A60688	10	1062-16-0144	11A60734	10
18-14	16	High Conductivity	Gold	1060-16-0988	11A60738	10	1062-16-0988	11A60741	10
18-14	16	Standard	Nickel	1060-14-0122	11A60372	25	1062-14-0122	11A60709	10
18-14	16	High Conductivity	Gold	1060-14-0144	11A60698	10	1062-14-0144	11A60737	10
16-12	16	Standard	Nickel	1060-16-1222	11A60367	25	1062-16-1222	11A60713	10
16-12	16	Standard	Nickel	-----	-----	---	1062-16-1422	11A60700	10
14-12	12	High Conductivity	Gold	1060-12-0144	11A60492	10	1062-12-0144	11A60494	10
14-12	12	Standard	Nickel	1060-12-0166	11A60493	10	1062-12-0166	11A60710	10
10	12	Standard	Nickel	1060-12-0222	11A60311	10	1062-12-0222	11A60565	10



Housings

Pin housings are gray and available flanged (panel mount) or in-line. Socket housings are gray and will mate with flanged or in-line pin housings of the same size.



Circuits	Wire Size AWG	Deutsch Size	Rear	Pin			Socket					
				Flange Deutsch #	Part #	Pkg. Qty.	In-line Deutsch #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	
3-Way	20-14	16	Non-threaded	-----	-----	---	HD14-3-16P	11A59730	1	HD16-3-16S	11A59861	1
3-Way	20-14	16	Threaded	HD10-3-96P	11A59540	1	HD14-3-96P	11A59542	1	HD16-3-96S	11A59525	1
4-Way	20-6	1) 14, 3) 16	Threaded	HD10-4-4P	11A60066	1	-----	-----	---	HD16-4-4S	11A60234	1
5-Way	20-14	16	Non-threaded	HD10-5-16P	11A59524	1	HD14-5-16P	11A59900	1	HD16-5-16S	11A59563	1
6-Way	20-14	16	Threaded	HD10-6-96P	11A59647	1	HD14-6-96P	11A59936	1	HD16-6-96S	11A59623	1
6-Way	14-10	12	Threaded	HD10-6-12P	11A59589	1	HD14-6-12P	11A59706	1	HD16-6-12S	11A59631*	1
9-Way	20-14	16	Non-threaded	HD10-9-16P	11A60068	1	HD14-9-16P	11A59978	1	HD16-9-16S	11A60181	1
9-Way	20-14	16	Threaded	HD10-9-96P	11A59600	1	HD14-9-96P	11A59595	1	HD16-9-96S	11A59671	1

*No coupling ring

Pin Housing Flange Gaskets

Flange gaskets used on the above flange pin housings, create a tight seal between the housing flange and panel face. Help seal out the elements, such as dirt, sand, and salt. Made of neoprene, .125" thick and operating temperature of -70°F to 225°F.

Circuits	Works With		Deutsch #	Part #	Pkg. Qty.
	Deutsch #	Part #			
3-Way	HD10-3-96P	11A59540	HD10-3-GKT	11A59562	5
5-Way	HD10-5-16P	11A59524	HD10-5-GKT	11A59609	5
6-Way	HD10-6-96P	11A59647	HD10-6-GKT	11A59582	5
9-Way	HD10-9-16P and HD10-9-96P	11A60068 & 11A59600	HD10-9-GKT	11A59541	5



HD10 Series Strain Reliefs

The HD10 strain reliefs screw onto threaded 3, 4, 6 and 9-way HD10 housings reducing the strain on the wires. Also offering a neater look.

Circuits	Deutsch #	Part #	Pkg. Qty.
3-Way	HD18-003	11A59523	1
6-Way	HD18-006	11A59641	1
4 or 9-Way	HD18-009	11A59460	1



Deutsch HD10 Series Connectors

HD10 Series Connectors

Housing Boots

The HD10 boots slide on both pin and socket housings. Made of plastisol and provide protection from dirt and debris. They are rated from -20°F to 212°F.



3-Way Gray



9-Way Black

Circuits	Deutsch #	Gray			Black		
		Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
3-Way	HD10-3BT	11A59167	5	-----	-----	---	
5-Way	HD10-5BT	11A59104	10	HD10-5BT-BK	11A59105	10	
6-Way	HD10-6BT	11A59241	5	HD10-6BT-BK	11A60846	5	
9-Way	HD10-9BT	11A59242	5	HD10-9BT-BK	11A59243	5	

Protective Caps and Lanyards

Protective dust caps seal housings from the elements and are used to protect the connector when it's not mated. Lanyards help you to keep your caps from being lost. They come in rubber or steel.



Pin Cap



Pin Cap and Rubber Lanyard



Socket Cap and Steel Lanyard

Circuits	Deutsch #	Pin			Socket				
		Gray Part #	Pkg. Qty.	Black Deutsch #	Black Part #	Pkg. Qty.	Gray Deutsch #	Gray Part #	Pkg. Qty.
Cap Only									
3-Way	HDC16-3	11A59348	1	-----	-----	---	HDC14-3	11A59348	5
5-Way	HDC16-5	11A59177	1	-----	-----	---	-----	-----	---
6-Way	HDC16-6	11A59174	1	HDC16-6-E004	11A59630	1	HDC14-6	11A59403	1
9-Way	HDC16-9	11A59219	1	HDC16-9-E004	11A59395	1	HDC14-9	11A59498	1
Cap and Rubber Lanyard									
3-Way	HDC16-3-JDL	11A60861	1	-----	-----	---	HDC14-3-JDL	11A60858	1
6-Way	HDC16-6-JDL	11A60862	1	-----	-----	---	HDC14-6-JDL	11A60859	1
9-Way	HDC16-9-JDL	11A60863	1	HDC9-JDL082397	11A60864	1	HDC14-9-JDL	11A60860	1
Cap and Steel Lanyard									
3-Way	HDC16-3-LA	11A59662	1	-----	-----	---	-----	-----	---
5-Way	HDC16-5-LA	11A59676	1	-----	-----	---	-----	-----	---
6-Way	HDC16-6-LA	11A59698	1	-----	-----	---	HDC14-6-LA	11A59668	1
9-Way	HDC16-9-L47N	11A59640	1	HDC16-9-E004-L47N	11A59680	1	-----	-----	---

Lanyards

Do you have the caps you need? You can purchase the lanyards without the caps.



Rubber Lanyard



Steel Lanyard

Material	Size	Deutsch #	Part #	Pkg. Qty.
Rubber	0.7" x 5.31"	JDL082397	11A60867	5
Steel	0.047" x 16"	L47N-1600-1	11A60868	1
Steel	0.047" x 6"	L47N-600-1	11A60869	1

Crimping Tools for Solid Terminals

Production
4 Indents



Field Service
2 Indents



4 Indents



Economy
2 Indents



Deutsch Size	Wire Size (AWG)	Amps	Ratcheting/OEM		Non-Ratcheting		Ratcheting/OEM		Ratcheting	Non-Ratcheting
			Deutsch #	Part #	Deutsch #	Part #	Deutsch #	Part #	Part #	Part #
20	20	7.5	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
20	18-16	7.5	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
16	20	13	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
16	14	13	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
12	12	25	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
8	10-8	60	-----	-----	HDT-04-08	37A17022*	-----	-----	-----	37A22100**
4	6	100	-----	-----	HDT-04-08	37A17022*	-----	-----	-----	37A22100**

* HDT-04-08 tool comes with 1 set of #11A60769/Deutsch #0434-205-0800 and 1 set of #11A60768/Deutsch #0434-205-0400 dies

** HDT-04-08-E tool comes with 1 set of #37A22102 and 1 set of #37A22101 dies















Deutsch HD30 Series Connectors

HD30 Series Connectors

The HD30 series are circular and have a metal shell. Designed for truck and bus industry. Sealed to keep out the environment. Can quickly be connected and disconnected.

Terminals

Select the terminal that fits your wire size. Use a plug in place of a terminal to fill an empty slot. Crimp solid terminals with the OEM tool #37A17001/Deutsch #HDT-48-00, see page 61. Use release tool #37A17013/Deutsch #0411-240-2005 for Deutsch size 20, #37A17012/Deutsch #0411-310-1605 for Deutsch size 16 and #37A17014/Deutsch #114010 for Deutsch size 12. For stamped and formed terminal crimpers see page 61. Stamped terminals are available on reels.

Wire Size (AWG)	Deutsch Size	Feature	Material	Pin			Socket			Standard Solid
				Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	
Solid										
20	20	Standard	Nickel	0460-202-20141	39A12001	10	0462-201-20141	39A12002	10	
20	20	High Conductivity	Gold	0460-202-2031	11A59557	5	0462-201-2031	11A59610	1	
20-16	16	Standard	Nickel	0460-202-16141	39A11025	25	0462-201-16141	39A11026	25	
20-16	16	High Conductivity	Gold	0460-202-1631	39A11029	10	0462-201-1631	39A11030	10	
18-16	20	Standard	Nickel	0460-010-20141	39A12027	5	0462-005-20141	39A12028	25	
18-16	20	High Conductivity	Gold	0460-010-2031	11A59865	5	0462-005-2031	11A60107	1	
14-12	12	Standard	Nickel	0460-204-12141	39A13009	10	0462-203-12141	39A13010	10	
14-12	12	High Conductivity	Gold	0460-220-1231	11A59778	1	0462-210-1231	11A60125	1	
14	16	Std., Green Band	Nickel	0460-215-16141	39A11027	25	0462-209-16141	39A11028	25	
14	16	High Cond., Grn Band	Gold	0460-215-1631	39A11037	10	0462-209-1631	39A11036	10	
10-8	16	Standard	Nickel	0460-204-08141	39A13013	1	0462-203-08141	39A13014	1	
Stamped and Formed, Reel										
22-16	20	Standard	Nickel	1060-20-0122	11A60463	25	1062-20-0122	11A60671	10	
22-16	20	High Conductivity	Gold	1060-20-0144	11A60720	10	1062-20-0144	11A60736	10	
22-16	20	Standard	Nickel	1060-20-0222	11A60385	25	1062-20-0222	11A60706	25	
22-16	20	High Conductivity	Gold	1060-20-0244	11A60740	10	1062-20-0244	11A60739	10	
20-16	16	Standard	Nickel	1060-16-0622	11A60327	10	1062-16-0622	11A60705	10	
20-16	16	High Conductivity	Gold	1060-16-0644	11A60689	10	1062-16-0644	11A60735	10	
18-14	16	Standard	Nickel	1060-16-0122	11A60373	25	1062-16-0122	11A60704	10	
18-14	16	High Conductivity	Gold	1060-16-0144	11A60688	10	1062-16-0144	11A60734	10	
18-14	16	High Conductivity	Gold	1060-16-0988	11A60738	10	1062-16-0988	11A60741	10	
18-14	16	Standard	Nickel	1060-14-0122	11A60372	25	1062-14-0122	11A60709	10	
18-14	16	High Conductivity	Gold	1060-14-0144	11A60698	10	1062-14-0144	11A60737	10	
16-12	16	Standard	Nickel	1060-16-1222	11A60367	25	1062-16-1222	11A60713	10	
14-12	12	Standard	Nickel	1060-12-0166	11A60493	10	1062-12-0166	11A60710	10	
14-12	12	High Conductivity	Gold	1060-12-0144	11A60492	10	1062-12-0144	11A60494	10	
10	12	Standard	Nickel	1060-12-0222	11A60311	10	1062-12-0222	11A60565	10	

Housings

The HD30 series are compact, light, with a rugged metal housing. This protects the contacts and grommets. There are several different terminal configuration options, to prevent mismatching.

18 Shell Pin
#11A59718



24 Shell Pin
#11A60086



18 Shell Socket
#11A60608



24 Shell Socket
#11A60353



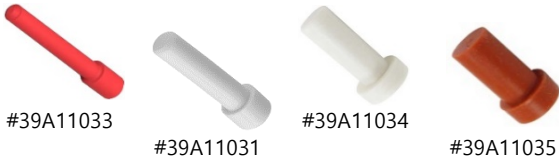
Circuits	Circuits - Deutsch Size	Pin			Socket		
		Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
18 Shell Size							
6-Way	4-size 16 / 2-size 4	HD34-18-6PN	11A59718	1	HD36-18-6SN	11A60614	1
8-Way	8-size 12	HD34-18-8PN	11A60023	1	HD36-18-8SN	11A60059	1
14-Way	14-size 16	HD34-18-14PN	11A59864	1	HD36-18-14SN	11A60087	1
20-Way	18-size 20 / 2-size 16	HD34-18-20PN	11A60490	1	HD36-18-20SN	11A60608	1
21-Way	21-size 20	HD34-18-21PN	11A59895	1	HD36-18-21SN	11A60499	1
24 Shell Size							
9-Way	6-size 12 / 2-size 8 / 1-size 4	HD34-24-9PN	11A60086	1	HD36-24-9SN	11A60114	1
14-Way	12-size 16 / 1-size 12 / 1-size 4	HD34-24-14PN	11A60312	1	HD36-24-14SN	11A60352	1
16-Way	16-size 12	HD34-24-16PN	11A60313	1	HD36-24-16SN	11A59897	1
18-Way	14-size 16 / 3-size 12 / 1-size 8	HD34-24-18PN	11A60314	1	HD36-24-18SN	11A60353	1
19-Way	13-size 16 / 6-size 12	HD34-24-19PN	11A60315	1	HD36-24-19SN	11A60354	1
21-Way	17-size 16 / 4-size 12	HD34-24-21PN	11A59761	1	HD36-24-21SN	11A59924	1
23-Way	23-size 16	HD34-24-23PN	11A59915	1	HD36-24-23SN	11A60388	1
33-Way	33-size 20	HD34-24-33PN	11A59884	1	HD36-24-33SN	11A60573	1
35-Way	32-size 20 / 3-size 16	HD34-24-35PN	11A59789	1	HD36-24-35SN	11A59808	1
91-Way	5-size 16 / 2-size 12 / 2-size 8	HD34-24-91PN	11A60091	1	-----	-----	---

Deutsch HD30 Series Connectors

HD30 Series Connectors

Sealing Plugs

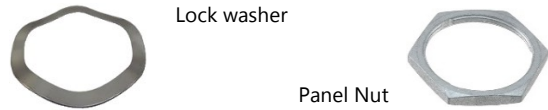
Plugs for empty slots in the housings.



Deutsch #	Deutsch Size	Material	Part #	Pkg. Qty.
0413-204-2005	20	Thermoplastic	39A11033	25
114017	16 & 12	Thermoplastic	39A11031	25
114018	8	Thermoplastic	39A11034	10
114019	4	Silicone Rubber	39A11035	10

Lock Washers and Panel Nuts

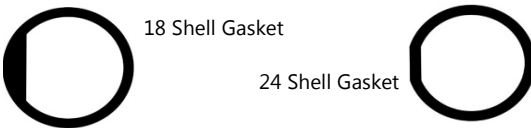
Used together, the **lock washers** and **panel nuts** help in mounting the HD30 series connectors. Lock washers add tension between the threads and the nuts to provide a secure connection.



Shell Size	Lock Washers			Panel Nuts		
	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
18	2414-002-1886	11A59331	5	112263-90	11A59720	1
24	2414-001-2486	11A59330	5	114020-90	11A59779	1

Gaskets

Help seal out the elements, such as moisture, dirt, sand and salt. Made of neoprene, .125" thick and operating temperature of -70°F to 225°F. Gaskets are 0.125" thick.



Shell Size	Deutsch #	Part #	Pkg. Qty.
18	16-04978	11A59543	5
24	16-04477	11A59449	10

Housing Strain Reliefs

The HD30 series offer a metal strain relief in straight or 90° configuration. They attach to the housing, to reduce the strain on the wires. The strain relief has a screw in the back of the connector and is attached to the wires with a tie wrap.



Shell Size	Orientation	Deutsch #	Part #	Pkg. Qty.
18	Straight	WHDS-18-1	11A60656	1
18	90° angle	WHDS-18-2	11A60657	1
24	Straight	WHDS-24-1	11A60658	1
24	90° angle	WHDS-24-2	11A60659	1

Housing Boots

The HD30 boots slide on both pin and socket housings. Made of plastisol and provide protection from dirt and debris. They are rated from -20°F to 212°F.



Color	Orientation	18 Shell			24 Shell		
		Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
Gray	Straight	HD30-18BT	11A59266	10	HD30-24BT	11A59323	5
Black	Straight	HD30-18BT-BK	11A59267	10	HD30-24BT-BK	11A59324	5
Black	90°	HD30-18BT-90BK	11A59134	1	HD30-24BT-90BK	11A59135	1

Dust Caps and Eyelet Chains

Protective dust caps seal housings from the elements and are used to protect the connector when it's not mated. Caps can be purchased separately, or with mounting chain.



Feature	18 Shell Pin			24 Shell Pin			18 Shell Socket			24 Shell Socket		
	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
Cap with Eyelet Chain	HDC36-18	11A59901	1	HDC36-24	11A59991	1	HDC34-18	11A59914	1	HDC34-24	11A59879	1
Cap with No Chain	HDC36-18-1E	11A59952	1	HDC36-24-1E	11A59989	1	HDC34-18-1E	11A60190	1	HDC34-24-1E	11A60198	1




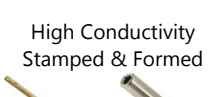
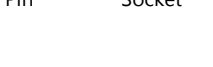

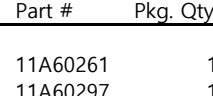
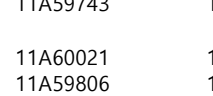
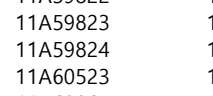

Deutsch HDP20 Series Connectors

HDP20 Series Connectors

The HDP20 series are round, black, thermoplastic and have a heavy duty rating. Best option to keep chemicals from damaging your connector housings. Can quickly be connected and disconnected.

Terminals

Select the terminal that fits your wire size. Use a plug in place of a terminal to fill an empty slot. Crimp solid terminals with the OEM tool #37A17001/Deutsch #HDT-48-00, see page 61. Use release tool #37A17013/Deutsch #0411-240-2005 for Deutsch size 20, #37A17012/Deutsch #0411-310-1605 for Deutsch size 16 and #37A17014/Deutsch #114010 for Deutsch size 12. For stamped and formed terminal crimpers see page 61. Stamped terminals are available on reels.

Wire Size (AWG)	Deutsch Size	Feature	Material	Pin			Socket			Standard Solid	Standard Stamped & Formed
				Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.		
Solid											
20	20	Standard	Nickel	0460-202-20141	39A12001	10	0462-201-20141	39A12002	10		
20	20	High Conductivity	Gold	0460-202-2031	11A59557	5	0462-201-2031	11A59610	1		
20-16	16	Standard	Nickel	0460-202-16141	39A11025	25	0462-201-16141	39A11026	25		
20-16	16	High Conductivity	Gold	0460-202-1631	39A11029	10	0462-201-1631	39A11030	10		
18-16	20	Standard	Nickel	0460-010-20141	39A12027	5	0462-005-20141	39A12028	25		
18-16	20	High Conductivity	Gold	0460-010-2031	11A59865	5	0462-005-2031	11A60107	1		
14-12	12	Standard	Nickel	0460-204-12141	39A13009	10	0462-203-12141	39A13010	10		
14-12	12	High Conductivity	Gold	0460-220-1231	11A59778	1	0462-210-1231	11A60125	1		
14	16	Std., Green Band	Nickel	0460-215-16141	39A11027	25	0462-209-16141	39A11028	25		
14	16	High Cond., Grn Band	Gold	0460-215-1631	39A11037	10	0462-209-1631	39A11036	10		
10-8	8	Standard	Nickel	0460-204-08141	39A13013	1	0462-203-08141	39A13014	1		
Stamped and Formed, Reel											
22-16	20	Standard	Nickel	1060-20-0122	11A60463	25	1062-20-0122	11A60671	10		
22-16	20	High Conductivity	Gold	1060-20-0144	11A60720	10	1062-20-0144	11A60736	10		
22-16	20	Standard	Nickel	1060-20-0222	11A60385	25	1062-20-0222	11A60706	25		
22-16	20	High Conductivity	Gold	1060-20-0244	11A60740	10	1062-20-0244	11A60739	10		
20-16	16	Standard	Nickel	1060-16-0622	11A60327	10	1062-16-0622	11A60705	10		
20-16	16	High Conductivity	Gold	1060-16-0644	11A60689	10	1062-16-0644	11A60735	10		
18-14	16	Standard	Nickel	1060-16-0122	11A60373	25	1062-16-0122	11A60704	10		
18-14	16	High Conductivity	Gold	1060-16-0144	11A60688	10	1062-16-0144	11A60734	10		
18-14	16	High Conductivity	Gold	1060-16-0988	11A60738	10	1062-16-0988	11A60741	10		
18-14	16	Standard	Nickel	1060-14-0122	11A60372	25	1062-14-0122	11A60709	10		
18-14	16	High Conductivity	Gold	1060-14-0144	11A60698	10	1062-14-0144	11A60737	10		
16-12	16	Standard	Nickel	1060-16-1222	11A60367	25	1062-16-1222	11A60713	10		
14-12	12	Standard	Nickel	1060-12-0166	11A60493	10	1062-12-0166	11A60710	10		
14-12	12	High Conductivity	Gold	1060-12-0144	11A60492	10	1062-12-0144	11A60494	10		
10	12	Standard	Nickel	1060-12-0222	11A60311	10	1062-12-0222	11A60565	10		

Housings

The HDP20 housings are compact, light, made of thermoplastic. This protects the contacts and grommets. There are several different terminal configuration options, to prevent mismatching.

24 Shell Pin Housing



18 Shell Socket



24 Shell Socket



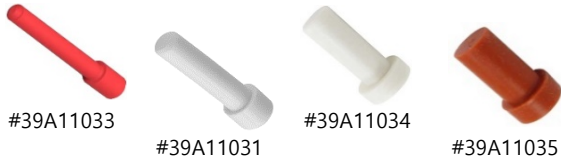
Circuits	Circuits - Deutsch Size	Pin			Socket		
		Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
18 Shell Size							
6-Way	4-size 16 / 2-size 4	-----	-----	---	HDP26-18-6SN	11A60261	1
8-Way	8-size 12	-----	-----	---	HDP26-18-8SN	11A60297	1
14-Way	14-size 16	-----	-----	---	HDP26-18-14SN	11A60273	1
20-Way	18-size 20 / 2-size 16	-----	-----	---	HDP26-18-20SN	11A59742	1
21-Way	21-size 20	-----	-----	---	HDP26-18-21SN	11A59743	1
24 Shell Size							
9-Way	6-size 12 / 2-size 8 / 1-size 4	HDP24-24-9PN	11A59783	1	HDP26-24-9SN	11A60021	1
14-Way	12-size 16 / 1-size 12 / 1-size 4	-----	-----	---	HDP26-24-14SN	11A59806	1
16-Way	16-size 12	-----	-----	---	HDP26-24-16SN	11A60305	1
18-Way	14-size 16 / 3-size 12 / 1-size 8	-----	-----	---	HDP26-24-18SN	11A59902	1
19-Way	13-size 16 / 6-size 12	-----	-----	---	HDP26-24-19SN	11A59822	1
21-Way	17-size 16 / 4-size 12	-----	-----	---	HDP26-24-21SN	11A59823	1
23-Way	23-size 16	-----	-----	---	HDP26-24-23SN	11A59824	1
33-Way	33-size 20	HDP24-24-33PN	11A60271	1	HDP26-24-33SN	11A60523	1
35-Way	32-size 20 / 3-size 16	HDP24-24-35PN	11A59711	1	HDP26-24-35SN	11A60065	1

Deutsch HDP20 Series Connectors

HDP20 Series Connectors

Sealing Plugs

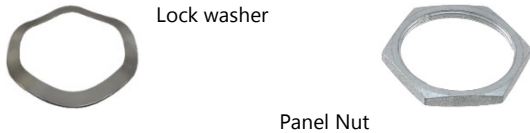
Plugs for empty slots in the housings.



Deutsch #	Deutsch Size	Material	Part #	Pkg. Qty.
0413-204-2005	20	Thermoplastic	39A11033	25
114017	16 & 12	Thermoplastic	39A11031	25
114018	8	Thermoplastic	39A11034	10
114019	4	Silicone Rubber	39A11035	10

Lock washers and Panel Nuts

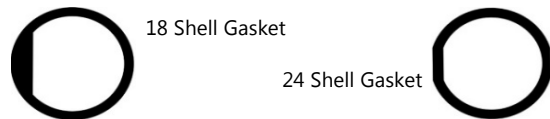
Used together, the **lock washers** and **panel nuts** help in mounting the HDP20 series connectors. Lock washers add tension between the threads and the nuts to provide a secure connection.



Shell Size	Lock Washers			Panel Nuts		
	Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
18	2414-002-1886	11A59331	5	2411-002-1805	11A59347	5
24	2414-001-2486	11A59330	5	2411-001-2405	11A59425	5

Gaskets

Help seal out the elements, such as moisture, dirt, sand and salt. Made of neoprene, .125" thick and operating temperature of -70°F to 225°F. Gaskets are 0.125" thick.



Shell Size	Deutsch #	Part #	Pkg. Qty.
18	16-04978	11A59543	5
24	16-04477	11A59449	10

Housing Boots

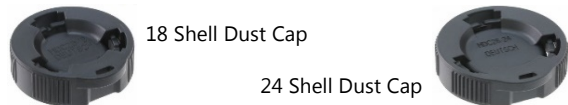
The HDP20 boots slide on both pin and socket housings. Made of plastisol and provide protection from dirt and debris. They are rated from -20°F to 212°F.



Color	Orientation	18 Shell			24 Shell		
		Deutsch #	Part #	Pkg. Qty.	Deutsch #	Part #	Pkg. Qty.
Gray	Straight	HD30-18BT	11A59266	10	HD30-24BT	11A59323	5
Black	Straight	HD30-18BT-BK	11A59267	10	HD30-24BT-BK	11A59324	5
Black	90°	HD30-18BT-90BK	11A59134	1	HD30-24BT-90BK	11A59135	1

Dust Caps

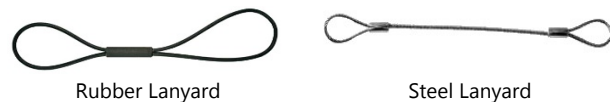
Protective dust caps seal housings from the elements and are used to protect the connector when it's not mated.



Shell Size	Deutsch #	Part #	Pkg. Qty.
18	HDC26-18	11A59467	1
24	HDC26-24	11A59468	1

Lanyards

Do you have the caps you need? You can purchase the lanyards without the caps.



Material	Size	Deutsch #	Part #	Pkg. Qty.
Rubber	0.7" x 5.31"	JDL082397	11A60867	5
Steel	0.047" x 16"	L47N-1600-1	11A60868	1
Steel	0.047" x 6"	L47N-600-1	11A60869	1

D Hole Punch Tools for HDP20 & HD30 Series

A D hole punch is used to cut a D shaped hole that allows the HDP20 and HD30 connectors to mount securely. The D shape keeps connectors from spinning.



Shell Size	Deutsch #	Part #	Pkg. Qty.
D Hole Punches			
18	24-D-PUNCH	11A60818	1
24	18-D-PUNCH	11A60795	1
Replacement Draw Stud for D Hole Punches			
18 & 24	PUNCHDRAWSTUD	11A60870	1

Deutsch Tools

There are two styles of Deutsch pins, solid and stamped & formed. Both types need to be crimped, solder is not recommended. Several hand and production tools are available to crimp terminals, insert and remove wire, and position your terminals and wedgelocks.

Pick Removal Tool

Works with	Description	Deutsch #	Part #
Deutsch DT, DTM, and DTP Series	The tool has a double ended removal tool. One end has a sturdy 90° hook for non-slip wedgelock removal. The other end has a standard flat head screwdriver which can be used as a straight pick or driver.	DT-RT	37A17011



Terminal Removal Tools

Removal tools remove the Deutsch contacts from their housings. The **plastic** removal tools are economical. The **metal** removal tools are more durable.



Wire Size (AWG)	Deutsch Size	Works with Series #	Plastic			Metal		
			Color	Deutsch #	Part Number	Color	Deutsch #	Part Number
24-20	16	DTM, DRC20, HDP, and HD30	Red	0411-240-2005	(A) 37A17013	Red	0411-240-2005HD	(G) 37A17019
18-16	20	DT, DRC, HD, HDP, and HD10	Lt. Blue	0411-310-1605	(B) 37A17012	Lt. Blue	0411-310-1605HD	(H) 37A17018
16-14	14	DRC, HD, HDP, and HD10	Green	0411-291-1405	(C) 37A17008	-----	-----	-----
12	12	DTP, DTCE, DTHD, HD10, HD30	Yellow	114010	(D) 37A17014	Yellow	114010HD	(I) 37A17017
10-8	8	DTHD, DTCE, HD, and HDP	Green	114008	(E) 37A17009	Gray	114008HD	(J) 37A17021
6	4	DTHD, DTCE, HD, and HDP	White	114009	(F) 37A17010	Green	114009HD	(K) 37A17020
Metal Removal Tool Set / Contains all three metal tools: 37A17018, 37A17019, 37A17017. (L) 37A17016								

Crimp Tools for Solid Terminals, Deutsch Series DT, DTM, DTP, HD30, HDP20, HD10, DRC, DRB, DTHD, DTV, AEC



Deutsch Size	Wire Size (AWG)	Amps	Ratcheting/OEM		Non-Ratcheting		Ratcheting/OEM		Ratcheting	Non-Ratcheting
			Deutsch #	Part #	Deutsch #	Part #	Deutsch #	Part #	Part #	Part #
20	20	7.5	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
20	18-16	7.5	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
16	20	13	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
16	14	13	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
12	12	25	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
8	10-8	60	-----	-----	HDT-04-08	37A17022*	-----	-----	-----	37A22100**
4	6	100	-----	-----	HDT-04-08	37A17022*	-----	-----	-----	37A22100**

* HDT-04-08 tool comes with 1 set of #11A60769/Deutsch #0434-205-0800 and 1 set of #11A60768/Deutsch #0434-205-0400 dies

** HDT-04-08-E tool comes with 1 set of #37A22102 and 1 set of #37A22101 dies

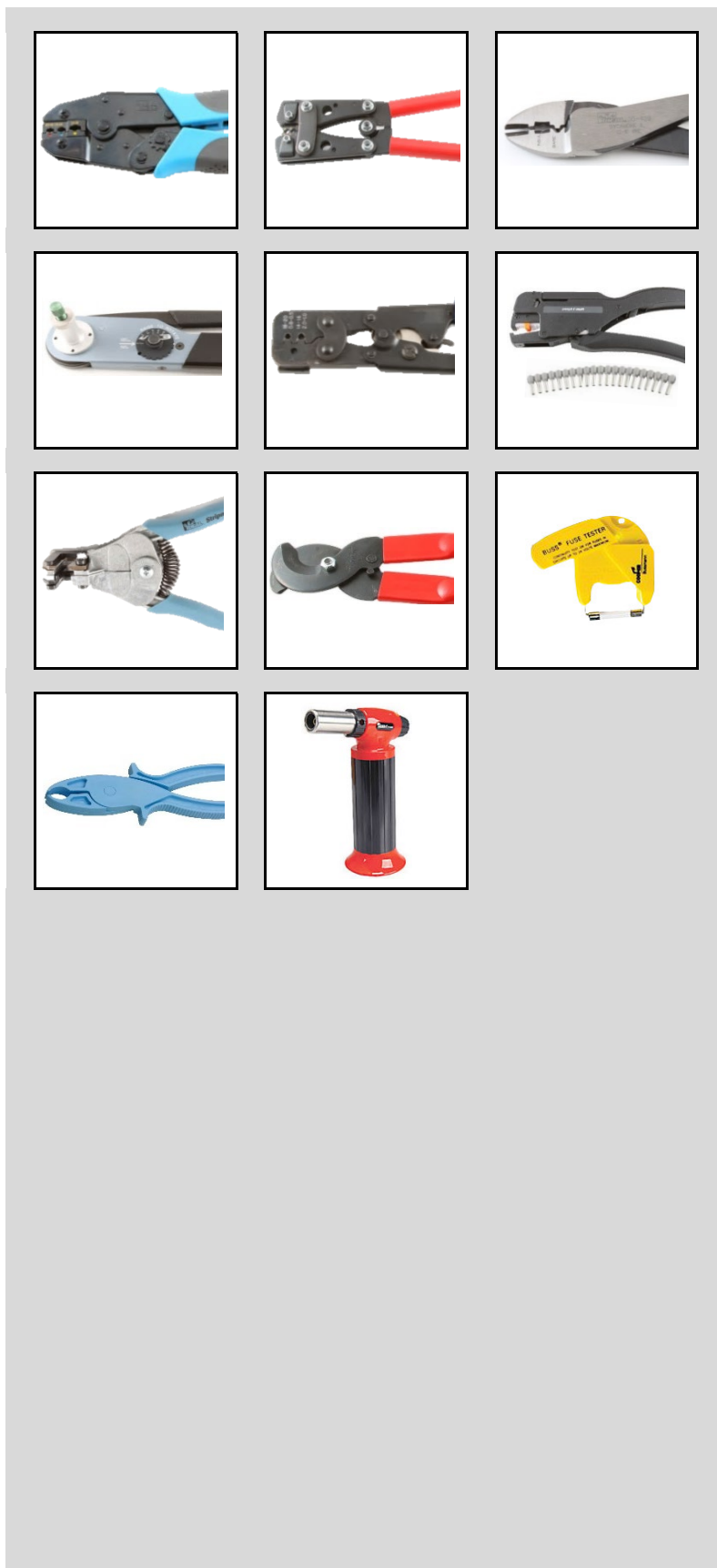
OEM Crimp Tools for Stamped and Formed Terminals, Deutsch Series DT, DTM, DTP, HD30, HDP20, HD10, DRC, DRB, DTHD, DTV, AEC



Deutsch Size	Wire Size (AWG)	Production		Field Service		Production	
		Deutsch #	Part #	Deutsch #	Part #	Deutsch #	Part #
20	22-18	DTT-20-02	11A60844	-----	-----	-----	-----
20	20-16	DTT-20-00	37A17003	-----	-----	-----	-----
16	18	DTT-16-01	37A17004	-----	-----	-----	-----
16	16-14	DTT-16-00	37A17005	-----	-----	-----	-----
12	14-12	-----	-----	DTT-12-00	37A17007	-----	-----
12	10	-----	-----	-----	-----	DTT-12-01	37A17006

Tools

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Crimping Tools for Insulated Terminals

Crimping Tools for Insulated Terminals



3M

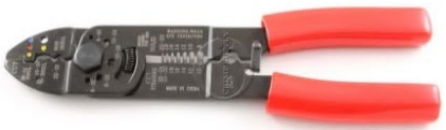
3M # TH-450
Part # 37A12003

- Crimps:
- **26-6 gauge** insulated terminals
 - 26-6 gauge non-insulated terminals
 - 22-10 gauge non-insulated flag terminals
 - 26-10 gauge closed end connectors
- Strips:
- 20-8 gauge wire
- Features:
- Heavy-duty multi-purpose 3M tool



Part # 66C11412

- Crimps:
- **20-10 gauge** insulated terminals
 - 26-8 gauge non-insulated terminals
 - 20-10 gauge "B" crimp (wing type) terminals
- Features:
- Three quick change dies
 - Release lever
 - Ratcheting tool



Part # 37A12001

- Crimps:
- **26-10 gauge** insulated terminals
 - 22-10 gauge non-insulated terminals
- Strips:
- 26-8 gauge wire
- Features:
- Economy multi-purpose tool



Part # 37A13004

- Crimps:
- **26-16 gauge** insulated terminals
- Features:
- Release lever
 - Pressure adjustment lever
 - Ratcheting tool



Part # 37A13006

- Crimps:
- **26-14 gauge** insulated terminals
- Features:
- Release lever
 - Pressure adjustment lever
 - Ratcheting tool



Part # 37A13003

- Crimps:
- **22-10 gauge** insulated terminals
- Features:
- Release lever
 - Pressure adjustment lever
 - Ratcheting tool



Part # 37A13014

- Crimps:
- **26-14 gauge** insulated and heat shrink terminals
- Features:
- Release lever
 - UL ratcheting action



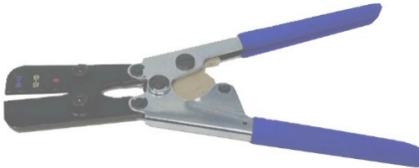
Part # 37A13013

- Crimps:
- **26-14 gauge** insulated and heat shrink terminals
- Features:
- Release lever
 - UL ratcheting tool



IDEAL
Ideal # 429
Part # 37A12002

- Crimps:
- **22-10 gauge** insulated terminals
 - 22-10 gauge non-insulated terminals
- Features:
- Cutter on nose



Part # 37A13015

- Crimps:
- **16-8 gauge** insulated and heat shrink terminals
- Features:
- Release lever
 - UL ratcheting tool



Part # 37A13001

- Crimps:
- **22-10 gauge** insulated terminals
- Features:
- Release lever
 - Pressure adjustment lever
 - Ratcheting tool



Part # 37A12009

- Crimps:
- **8-2 gauge** insulated terminals
 - 8-2 gauge non-insulated terminals
- Features:
- 18.5" long
 - Compound crimping

Crimping Tools for Non-Insulated Terminals

Crimping Tools for Non-Insulated Terminals

Crimps:

- **26-6 gauge** non-insulated terminals
- 26-6 gauge insulated terminals
- 22-10 gauge non-insulated flag terminals
- 26-10 gauge closed end connectors

Strips:

- 20-8 gauge wire

Features:

- Heavy-duty multi-purpose tool



3M

3M # TH-450
Part # 37A12003

Crimps:

- **8 gauge-250MCM** non-insulated terminals
- 8-4/0 gauge non-insulated flag terminals
- 8 gauge-250MCM copper lugs

Features:

- 22" long handles
- Dieless indent
- Wire calibration screw
- Single indent



Part # 37A12008

Crimps:

- **22-10 gauge** non-insulated terminals
- 22-10 gauge insulated terminals

Features:

- Cutter on nose



IDEAL

Ideal # 429
Part # 37A12002

Crimps:

- **8-1/0 gauge** non-insulated terminals
- 8-1/0 gauge battery terminals
- 8-1/0 gauge copper lugs

Features:

- 18" long handles
- Compound action



Part # 37A12005

Crimps:

- **26-8 gauge** non-insulated terminals
- 20-10 gauge insulated terminals
- 20-10 gauge "B" crimp (wing type) terminals

Features:

- Three quick change dies
- Release lever
- Ratcheting tool



Part # 66C11412

Crimps:

- **8-2 gauge** non-insulated terminals

Features:

- Release lever
- Ergonomic extended handles
- Four rotating dies
- Ratcheting tool



Part # 37A13009

Crimps:

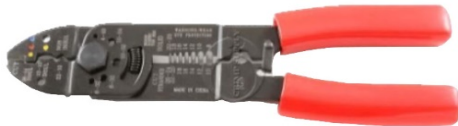
- **22-10 gauge** non-insulated terminals
- 26-10 gauge insulated terminals

Strips:

- 26-8 gauge wire

Features:

- Economy multi-purpose tool



Part # 37A12001

Crimps:

- **8-2 gauge** non-insulated terminals

Features:

- 13.75" long high leverage TPR handle
- Four die nests: 8 ga., 6 ga., 4 ga., 2 ga.
- Ratcheting tool



Part # 66C11269

Crimps:

- **8-2 gauge** non-insulated terminals
- 8-2 gauge insulated terminals

Features:

- 18.5" long
- Compound crimping



Part # 37A12009

Crimps:

- **20-8 gauge** non-insulated terminals

Features:

- Release Lever
- Pressure adjustment wheel
- Ratcheting tool



Part # 37A13002

Crimps:

- **16-6 gauge** non-insulated terminals

Features:

- 11" long spring loaded handles
- Release Lever
- Four die nests: 16-14 ga., 12-10 ga., 8 ga., 6 ga.



Part # 37A13010

Crimps:

- **8-2 gauge** non-insulated terminals
- 8-2 gauge non-insulated flag terminals
- 8-2 gauge copper lugs

Features:

- 24.75" long
- Four rotating dies



Part # 37A12010

(Continued on following page)

Crimping Tools for Non-Insulated, Heat Shrink & Insulated Flag Terminals

Crimping Tools for Non-Insulated Terminals (Continued from previous page)



Part # 37A12006

- Crimps:
- 6 gauge - 250MCM non-insulated terminals
 - 6 gauge - 250MCM battery terminals
 - 6 gauge - 250MCM copper lugs
- Features:
- 25" long handles
 - Rotating dies
 - Compound action



Part # 37A12011
Ratcheting Tool

- Crimps:
- 6 gauge - 250MCM non-insulated terminals
 - 6 gauge - 250MCM battery terminals
 - 6 gauge - 250MCM copper lugs
- Features:
- 25" long handles
 - Rotating dies



Part # 37A12007

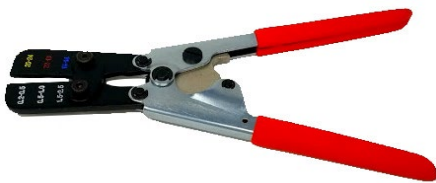
- Crimps:
- 6-4/0 gauge non-insulated terminals
 - 6-4/0 gauge battery terminals
 - 6-4/0 gauge copper lugs
- Features:
- Three quick change dies
 - Hammer indent tool
 - Economy crimper



Part # 66C10808

- Crimps:
- 6 gauge - 250MCM non-insulated terminals
- Features:
- Simple setting changes
 - Compound crimping
 - Bench mount

Crimping Tools for Heat Shrink Terminals



Part # 37A13014

- Crimps:
- 26-14 gauge heat shrink and insulated terminals
- Features:
- UL listed with 26-14 gauge heavy-duty heat shrink terminals
 - Release lever
 - Ratcheting tool



Part # 37A13013

- Crimps:
- 22-10 gauge heat shrink and insulated terminals
- Features:
- UL listed with 22-10 gauge heavy-duty heat shrink terminals
 - Release lever
 - Ratcheting tool



Part # 37A13011

- Crimps:
- 22-8 gauge heat shrink terminals
 - 22-8 gauge insulated terminals
- Features:
- Wider crimp surface for perfect heat shrink terminal crimps



Part # 37A13015

- Crimps:
- 16-8 gauge heat shrink and insulated terminals
- Features:
- UL listed with 16-8 gauge heavy duty heat shrink terminals
 - Release lever
 - Ratcheting tool

Crimping Tools for Insulated Quick Connect Flag Terminals



Part # 37A13008

- Crimps:
- 22-14 gauge insulated quick connect flag terminals
- Features:
- Pressure adjustment wheel
 - Release lever
 - Ratcheting tool



Part # 37A13012

- Crimps:
- 16-10 gauge insulated quick connect flag terminals
- Features:
- Pressure adjustment wheel
 - Release lever
 - Ratcheting tool

Crimping Tools for Non-Insulated Flag Terminals & "B" Crimp Wing Terminals

Crimping Tools for Non-Insulated Flag Terminals

Crimps:

- **22-10 gauge** non-insulated flag terminals
- 26-14 gauge insulated terminals
- 26-6 gauge non-insulated terminals
- 26-10 gauge closed end connectors

Strips:

- 20-8 gauge wire

Features:

- Heavy-duty multi-purpose 3M tool



3M # TH-450
Part # 37A12003

Crimps:

- **8-4/0 gauge** non-insulated flag terminals
- 8 gauge-250MCM non-insulated terminals
- 8 gauge-250MCM copper lugs

Features:

- 22" long handles
- Dieless indent
- Wire calibration screw



Part # 37A12008

Crimps:

- **22-14 gauge** non-insulated female quick connect flag terminals

Features:

- Pressure adjustment wheel
- Release lever
- Ratcheting tool



Part # 37A13007

Crimps:

- **8-2 gauge** non-insulated flag terminals
- 8-2 gauge non-insulated terminals
- 8-2 gauge copper lugs

Features:

- 24.75" long
- Four rotating dies



Part # 37A12011

Crimping Tools for "B" Crimp-Wing Terminals

Crimps:

- **30-18 gauge** open barrel used in D-SubS, Molex, and AMP Mate-N-Lok connectors

Features:

- Release lever
- Ratcheting tool



Part # 66C11273

Crimps:

- **22-10 gauge** "B" crimp (wing type) terminals

Features:

- Crimping wings are folded over to capture wire
- Open barrel type
- Release lever
- Ratcheting tool



Part # 37A13005

Crimps:

- **24-14 gauge** "B" crimp (wing type) terminals

Features:

- 5 different open barrel wing crimps
- Compound Action
- Crimping Tool
- Economy



Part # 37A12004

Crimps:

- **20-10 gauge** "B" crimp (wing type) terminals
- 26-8 gauge non-insulated terminals
- 20-10 gauge insulated terminals

Features:

- Three quick change dies
- Release lever
- Ratcheting tool



Part # 66C11412

Crimps:

- **6-2 gauge** "B" crimp and open barrel terminals

Features:

- No dies to move
- 19" handles
- Compound crimping



Part # 37A12012

Crimping Tools for Compression Lugs, Copper Lugs & Battery Terminals

Heavy Duty Crimping Tools for Compression Lugs, Copper Lugs, and Battery Terminals



Part # 37A12008

- Crimps:
- **8 gauge-250MCM** copper lugs
 - **8 gauge-250MCM** non-insulated terminals
 - **8-4/0 gauge** non-insulated flag flag terminals
- Features:
- 22" long handles
 - Dieless indent
 - Wire calibration screw
 - Single indent



Part # 37A12006

- Crimps:
- **6 gauge - 250MCM** battery terminals
 - **6 gauge - 250MCM** copper lugs
 - **6 gauge - 250MCM** non-insulated terminals
- Features:
- 25" long handles
 - Rotating dies
 - Compound crimping tool



Part # 37A12005

- Crimps:
- **8-1/0 gauge** battery terminals
 - **8-1/0 gauge** copper lugs
 - **8-1/0 gauge** non-insulated terminals
- Features:
- 18" long handles
 - Compound crimping tool



Part # 37A12011

- Crimps:
- **6 gauge - 250MCM** battery terminals
 - **6 gauge - 250MCM** copper lugs
 - **6 gauge - 250MCM** non-insulated terminals
- Features:
- 25" long handles
 - Rotating dies
 - Ratcheting tool



Part # 37A12009

- Crimps:
- **8-2 gauge** insulated terminals
 - **8-2 gauge** non-insulated terminals
- Features:
- 18.5" long
 - Compound crimping tool



Part # 66C10808

- Crimps:
- **6 gauge-250MCM** non-insulated terminals
- Features:
- Simple setting changes
 - Compound crimping tool



Part # 37A12010

- Crimps:
- **8-2 gauge** copper lugs
 - **8-2 gauge** non-insulated terminals
 - **8-2 gauge** non-insulated flag terminals
- Features:
- 24.75" long
 - Four rotating dies



Part # 37A12007

- Crimps:
- **6-4/0 gauge** battery terminals
 - **6-4/0 gauge** copper lugs
 - **6-4/0 gauge** non-insulated terminals
- Features:
- Three quick change dies
 - Economy hammer indent tool

Klein Heavy Duty Crimping Tool and Kit for Copper, Aluminum and ACSR Cables



- Crimps:
- **8 gauge to 750MCM** copper and aluminum, and **556MCM** ACSR with 12 tons of force
- Features:
- 360-degree rotating head for ease of positioning
 - Green light to confirm full pressure for a good crimp
 - Lighted crimping area for dark spaces
 - Compatible with industry standard U-style dies
 - Safety lockout switch

Part # 37A28016 Includes: tool and case (rechargeable battery not included)

Part # 37A28017 Includes: tool, case, two rechargeable batteries and charger

Deutsch Tools

There are two styles of Deutsch pins, solid and stamped & formed. Both types need to be crimped, solder is not recommended. Several hand and production tools are available to crimp terminals, insert and remove wire, and position your terminals and wedgelocks.

Pick Removal Tool

Works with	Description	Deutsch #	Part #
Deutsch DT, DTM, and DTP Series	The tool has a double ended removal tool. One end has a sturdy 90° hook for non-slip wedgelock removal. The other end has a standard flat head screwdriver which can be used as a straight pick or driver.	DT-RT	37A17011



Terminal Removal Tools

Removal tools remove the Deutsch contacts from their housings. The **plastic** removal tools are economical. The **metal** removal tools are more durable.



Wire Size (AWG)	Deutsch Size	Works with Series #	Plastic			Metal		
			Color	Deutsch #	Part Number	Color	Deutsch #	Part Number
24-20	16	DTM, DRC20, HDP, and HD30	Red	0411-240-2005	(A) 37A17013	Red	0411-240-2005HD	(G) 37A17019
18-16	20	DT, DRC, HD, HDP, and HD10	Lt. Blue	0411-310-1605	(B) 37A17012	Lt. Blue	0411-310-1605HD	(H) 37A17018
16-14	14	DRC, HD, HDP, and HD10	Green	0411-291-1405	(C) 37A17008	-----	-----	-----
12	12	DTP, DTCE, DTHD, HD10, HD30	Yellow	114010	(D) 37A17014	Yellow	114010HD	(I) 37A17017
10-8	8	DTHD, DTCE, HD, and HDP	Green	114008	(E) 37A17009	Gray	114008HD	(J) 37A17021
6	4	DTHD, DTCE, HD, and HDP	White	114009	(F) 37A17010	Green	114009HD	(K) 37A17020
Metal Removal Tool Set / Contains all three metal tools: 37A17018, 37A17019, 37A17017. (L) 37A17016								

Crimp Tools for Solid Terminals, Deutsch Series DT, DTM, DTP, HD30, HDP20, HD10, DRC, DRB, DTHD, DTV, AEC



Deutsch Size	Wire Size (AWG)	Amps	Ratcheting/OEM		Non-Ratcheting		Ratcheting/OEM		Ratcheting	Non-Ratcheting
			Deutsch #	Part #	Deutsch #	Part #	Deutsch #	Part #	Part #	Part #
20	20	7.5	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
20	18-16	7.5	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
16	20	13	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
16	14	13	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
12	12	25	HDT-48-00	37A17001	-----	-----	HDT-1561	37A17015	37A17002	-----
8	10-8	60	-----	-----	HDT-04-08	37A17022*	-----	-----	-----	37A22100**
4	6	100	-----	-----	HDT-04-08	37A17022*	-----	-----	-----	37A22100**

* HDT-04-08 tool comes with 1 set of #11A60769/Deutsch #0434-205-0800 and 1 set of #11A60768/Deutsch #0434-205-0400 dies

** HDT-04-08-E tool comes with 1 set of #37A22102 and 1 set of #37A22101 dies

OEM Crimp Tools for Stamped and Formed Terminals, Deutsch Series DT, DTM, DTP, HD30, HDP20, HD10, DRC, DRB, DTHD, DTV, AEC



Deutsch Size	Wire Size (AWG)	Production		Field Service		Production	
		Deutsch #	Part #	Deutsch #	Part #	Deutsch #	Part #
20	22-18	DTT-20-02	11A60844	-----	-----	-----	-----
20	20-16	DTT-20-00	37A17003	-----	-----	-----	-----
16	18	DTT-16-01	37A17004	-----	-----	-----	-----
16	16-14	DTT-16-00	37A17005	-----	-----	-----	-----
12	14-12	-----	-----	DTT-12-00	37A17007	-----	-----
12	10	-----	-----	-----	-----	DTT-12-01	37A17006

Packard Weather Pack & Metri-Pack Tools



#37A11018 / #15359996

Weather Pack, Metri-Pack, Micro-Pack, Pack-Con, and 56-58 Series terminals often require different crimping tools. The terminal series, wire size and part number make it easier to find the right tool. The **ratchet** style design allows you to make easier crimps with less effort.



#37A11010 / #12085270

Use a **quick single motion** tool that crimps both the terminal and seal in one motion, rather than two, for higher volumes.

The **standard two crimp** tools crimp in two separate motions. One motion to crimp the terminal and one motion to crimp the seal.

Crimping Tools



Packard # 12014254
Part # 37A11004

Crimps **Weather Pack:**

- 20-14 gauge
- Crimps **Metri-Pack:**
- 280 series, sealed, 20-14 gauge (must remove terminal locator on tool)

Features:

- OEM ratcheting tool



Park # 37A11019

Crimps **Weather Pack:**

- 22-14 gauge
- Crimps **Metri-Pack:**
- 150 series, sealed, 22-14 gauge
- 280 series, sealed, 22-14 gauge

Features:

- Economy tool



Packard # 15155975
Part # 37A11016

Crimps **Weather Pack:**

- 12 gauge
- Crimps **Metri-Pack:**
- 280 series, sealed, 12-10 gauge

Also Crimps:

- Open barrel rings, 12-10 gauge

Features:

- Ratcheting tool



Packard # 6285847
Part # 37A11001

Crimps **Metri-Pack:**

- 480 series, unsealed, 16-14 gauge
- 480 pull to seat series, unsealed, 16-14 gauge
- 630 series, unsealed, 16-14 gauge
- 630 pull to seat series, unsealed, 16-14 gauge

Crimps **Pack-Con:**

- Series I & II, unsealed, female, 20-14 gauge
- Series II, unsealed, female, 12-10 gauge

Crimps **Packard:**

- 56, 58, and 59 series, 20-14 gauge
- 56, 58, and 59 series, 12-10 gauge (core wings only)
- 56 Series, 20-10 gauge, splice clips
- Open barrel rings, unsealed, 20-14 gauge, up to 0.032" thick
- wedge base lamp sockets, 20-14 gauge

Features:

- OEM non-ratcheting tool



Packard # 12085270
Part # 37A11010

Crimps **Weather Pack:**

- 12 gauge
- Crimps **Metri-Pack:**
- 280 series, sealed, 12 gauge
- 480 series, sealed, 18-14 gauge
- 480 series, unsealed, 16-14 gauge
- 480 pull to seat series, unsealed, 18-14 gauge
- 150, 480, and 630 series (crimps seals only)
- 630 series, sealed, 18-14 gauge

Features:

- OEM ratcheting tool



Packard # 12085115
Part # 37A11009

Crimps **Metri-Pack:**

- 280, 480, and 630 series, unsealed, 16-12 gauge
- Crimps **Packard:**
- 56, 58, and 59 series, 12-10 gauge
- Open barrel rings, 14-10 gauge,

Crimps **Heat Shrink:**

- 22-10 gauge heat shrink terminals

Features:

- Standard two crimp
- OEM ratcheting tool



Packard # 8913440
Part # 37A11002

Crimps **Pack-Con:**

- Series I & II, unsealed, female, 20-14 gauge
- Crimps **Packard:**
- 56, 58, and 59 series, 20-14 gauge
- Open barrel rings, unsealed, 20-14 gauge, up to 0.032" thick
- wedge base lamp sockets, 20-14 gauge

Features:

- OEM ratcheting tool

(Continued on following page)

Crimping Tools (Continued from previous page)

Crimps **Metri-Pack:**

- 150 series, sealed, 20-14 gauge
- 280 series, sealed 20-14 gauge

Features:

- OEM ratcheting tool



Packard # 12155975
Part # 37A11015

Crimps **Metri-Pack:**

- 800 series, sealed 8 gauge (female only)

Features:

- Quick single motion OEM ratcheting tool



Packard # 15370042
Part # 37A11020

Crimps **Metri-Pack:**

- 280 series, unsealed, 20-14 gauge
- 280 ACT pull to seat series, unsealed, 20-14 gauge
- 480 series, unsealed, 20-18 gauge
- 480 and 630 pull to seat series, unsealed 20-18 gauge
- 630 series, unsealed, 20-18 gauge

Crimps **Pack-Con:**

- Series II, unsealed, female, 20-14 gauge

Features:

- OEM ratcheting tool



Packard # 12085271
Part # 37A17009

Crimps **Metri-Pack:**

- 280 and 480 series, unsealed, 12-10 gauge
- 280 ACT series, unsealed, 12-10 gauge
- 480 pull to seat series, 12-10 gauge
- 630 series, unsealed, 12-10 gauge
- 630 pull to seat series, 22-10 gauge
- 800 series, unsealed, female, 14-10 gauge

Crimps **Pack-Con:**

- Series I & III, unsealed, 12-10 gauge

Features:

- Quick single motion OEM ratcheting tool



Packard # 12070947
Part # 37A11006

Crimps **Metri-Pack:**

- 150 series, unsealed, 22-16 gauge
- 150, 150-1, and 150-2 pull to seat series, 22-16 gauge

Features:

- Quick single motion OEM ratcheting tool



Packard # 12039500
Part # 37A11005

Crimps **Metri-Pack:**

- GT 150 series, sealed 22-16 gauge
- GT 280 series, 22-16 gauge (must remove locator on tool)

Features:

- Quick single motion OEM ratcheting tool



Packard # 15359995
Part # 37A11017

Crimps **Metri-Pack:**

- 480 series, sealed, 12-10 gauge
- 630 series, sealed, 12-10 gauge

Features:

- Standard two crimp OEM non-ratcheting tool



Packard # 12071687
Part # 37A11008

Crimps **Micro-Pack**

- 100 series, unsealed, 22-14 gauge (female only)

Features:

- Quick single motion OEM ratcheting tool



Packard # 12070948
Part # 37A11007

Crimps **Metri-Pack:**

- GT 150 series, sealed 22-16 gauge

Features:

- Quick single motion OEM ratcheting tool



Packard # 15359996
Part # 37A11018

Crimps **Micro-Pack**

- 100 W series, 22-18 gauge, 3.5 mm center line

Features:

- Quick single motion OEM ratcheting tool



Packard # 12125080
Part # 37A11014

Packard Terminal Release Tools, Rennsteig Tools & Wire Ferrule Tools

Terminal Release Tools



Releases **Weather Pack**:
 • 24-12 gauge

Packard # T-3
 Part # 37A11003



Releases **Weather Pack**:
 • 24-12 gauge
 Features:
 • Heavy-duty tool

Part # 37A11021

Terminal Release Pick Tools



Releases **Metri-Pack**:
 • 150, 280, and 630 series, 22-10 gauge
 • 150 GT and 280 GT series, 22-10 gauge
 Features:
 • 0.035" tip width

Packard # 12094429
 Part # 37A11012



Releases **Metri-Pack**:
 • 150, 280, and 630 series, 22-10 gauge
 • 150 GT and 280 GT series, 22-10 gauge
 Features:
 • Heavy-duty tool

Part # 37A11022



Releases **Metri-Pack**:
 • 480, 630, and 800, series, 20-10 gauge
 Releases **Weather Pack**:
 • 56, 58, and 59 series, 20-10 gauge
 Features:
 • 0.090" tip width

Packard # 12094430
 Part # 37A11013



Releases **Metri-Pack**:
 • 480, 630, and 800, series, 20-10 gauge
 Releases **Packard**:
 • 56, 58, and 59 series, 20-10 gauge
 Features:
 • Heavy-duty tool

Part # 37A11023

Rennsteig Crimping Kits & Dies for Metri-Pack and Weather Pack Terminals



This German-made tool offers the most precise crimp available for production and high volume.

Kits include a die and a crimping handle.

Additional dies can be purchased to fit this handle.

Dies fit any handle from the 624 series kits.

GM/Delphi recommended crimpers and dies.

Wire Size (AWG)	Series		Rennsteig Number	Die	Kit
22-12	Metri-Pack 280	Unsealed	624 1504	37A21013	37A21014
22-16	Metri-Pack 150	Sealed	624 1495	37A21009	37A21010
22-16	Metri-Pack 150.2	Unsealed	624 1490	37A21007	37A21025
22-16	Metri-Pack GT150	Sealed	624 1489	37A21006	37A21026
22-16	Metri-Pack 280	Sealed	624 1501	37A21012	37A21027
22-16	Metri-Pack GT280	Sealed	624 1486	37A21002	37A21028
22-18	Micro-Pack	-----	624 1545	37A21024	37A21029
22-18	Metri-Pack GT150	Sealed	624 1488	37A21003	37A21004
20-16	Metri-Pack 150	Sealed	624 1527	37A21019	37A21030
20-16	Metri-Pack 150	Unsealed	624 1530	37A21035	37A21023
20-16	Metri-Pack 280	Sealed	624 1513	37A21036	37A21021
20-16	Metri-Pack 280	Unsealed	624 1506	37A21015	37A21031
20-18	Weather Pack	-----	624 1528	37A21020	37A21022
20-18	Metri-Pack 630	Unsealed	624 1511	37A21018	37A21032
16-12	Weather Pack	-----	624 1476	37A21001	37A21005
16-12	Metri-Pack 630	Unsealed	624 1510	37A21016	37A21017
14-10	Metri-Pack 280	Sealed	624 1498	37A21011	37A21033
12-10	Metri-Pack 280	Sealed	624 1492	37A21008	37A21034

Wire Ferrule Crimping Tools



Part # 37A14006

Crimps:
 • **22-10 gauge** insulated and non-insulated
 Features:
 • Quick-release
 • Five crimp zones
 • Economy ratcheting tool



Part # 37A14003

Crimps:
 • **10-6 gauge** insulated and non-insulated wire ferrules, with a trapezoid crimp
 • US or DIN type wire ferrules, conforms to DIN 46228 Pt #1 and #4 or EN-60947-1, three crimp zones are registered in accordance with VG 95211 (military designation VG 95236 T 14 A0001)
 Features:
 • German precision engineered tool
 • Ratcheting tool



Part # 37A14007

Crimps:
 • **10-6 gauge** insulated and non-insulated
 Features:
 • Quick-release
 • Pressure adjustment wheel
 • Three crimp zones
 • Economy ratcheting tool

(Continued on following page)

Wire Ferrule Crimping Tools (Continued from previous page)

Crimps:

- **22-14 gauge** strip ferrules

Features:

- Semi automatic tool cuts, strips and crimps with each squeeze of the handle.
- Speeds application by 200-300% over standing crimping tools
- Load strip ferrules into this tool for high volume applications



Customer's Choice

Part # 37A14004

Crimps:

- **24-10 gauge** insulated and non-insulated, with a rotating crimp die
- DIN 46228 Pt #1 and #4 or EN-60947-1 type wire ferrules

Features:

- Rotary action head turns 90° to allow crimp to be made from front or side
- German precision engineered tool



Customer's Choice

Part # 37A14002

Crimps:

- **28-6 gauge** insulated and non-insulated wire ferrules, with a trapezoid crimp
- seven crimp zones

Features:

- German precision engineered tool
- Ratcheting tool



Part # 37A14015

Crimps:

- **28-6 gauge** insulated and non-insulated wire ferrules

Features:

- Side loading tool automatically adjusts to wire ferrule sizes
- Precision crimp over full length of the sleeve
- German patented crimp technology produces a high quality six sided crimp
- Ratcheting tool



Part # 37A14014

Crimps:

- **22-12 gauge** insulated and non-insulated
- DIN 46228 Pt #1 and #4

Features:

- One crimp zone crimps all sizes
- German precision engineered tool
- Non-ratcheting tool



Part # 37A14005

Crimps:

- **20-12 gauge** insulated and non-insulated wire ferrules
- US or DIN type wire ferrules

Features:

- German precision engineered tool
- Ratcheting tool



Part # 37A14001

Crimps:

- **1-3/0 gauge** insulated and non-insulated wire ferrules, with a trapezoid crimp

Features:

- Quick-release
- Extra long handle for greater leverage
- Ratcheting tool



Part # 37A14012

Crimps:

- **8-1 gauge** insulated and non-insulated wire ferrules, with a trapezoid crimp

Features:

- Quick-release
- Extra long handle
- Five crimp zones
- Ratcheting tool



Part # 37A14009

Crimps:

- **6-2 gauge** insulated and non-insulated wire ferrules

Features:

- Quick-release
- Three crimp zones
- Pressure adjustment wheel
- Ratcheting tool



Part # 37A14008

Crimps:

- **4/0 gauge -250MCM** insulated and non-insulated wire ferrules with a trapezoid crimp

Features:

- Heavy-duty ratchet tool



Part # 37A14013

Stripping Tools

Stripping Tools



Part # 37A15009

- Strips:
- **28-10 gauge** wire
- Features:
- Settable strip depth up to 5/16"
 - Adjustable switch on the tool for insulation thickness
 - Fiberglass
 - Hand pressure tool



Part # 37A12001

- Strips:
- **26-8 gauge** wire
- Crimps:
- 26-10 gauge insulated terminals
 - 22-10 gauge non-insulated terminals
- Features:
- Economy multi-purpose tool



Part # 37A15007

- Strips:
- **20-12 gauge** wire
- Features:
- Pistol Handle
 - Self adjusting blades
 - Strip length gauge
 - Fiberglass
 - Hand pressure tool



Ideal # 45-120
Part # 37A15003

- Strips:
- **20-12 gauge** wire
 - 18-10 gauge solid wire
- Features:
- Spring loaded
 - Plier nose ends for extra gripping strength
 - Hand pressure tool



3M

3M # TH-450
Part # 37A12003

- Strips:
- **20-8 gauge** wire
- Crimps:
- 26-6 gauge non-insulated terminals
 - 26-6 gauge insulated terminals
 - 22-10 gauge non-insulated flag terminals
 - 26-10 gauge closed end connector
- Features:
- Heavy-duty multi-purpose 3M tool



Ideal # 45-128
Part # 37A15005

- Strips:
- **0.25"-0.75"**
- For center of power cable up to 5/32" thick
- Features:
- Extra blade stored in the handle



Part # 37A15002

- Strips:
- **24-10 gauge** wire
- Features:
- Hand pressure tool



Part # 37A15001

- Strips:
- **24-10 gauge** wire
- Features:
- Spring release
 - Hand pressure tool



Ideal # 45-092
Part # 37A15004

- Strips:
- **22-10 gauge** wire
- Features:
- Eliminates nicking, cutting, and fraying of wire
 - Spring action with wire gripper
 - Replacement blades #L-4421
 - Hand pressure tool

Cable Cutting Tools, Fuse Testers & Fuse Pullers

Cable Cutting Tools

Cuts:

- Up to 4/0 cable
- Features:
 - Offset bite which eliminates frayed ends and compression
 - Heavy duty tool
 - Hand pressure tool



Part # 37A16002

Cuts:

- 10 gauge to 350MCM cable
- Features:
 - Clean scissor action cuts
 - 18" long handle
 - Hand pressure tool



Part # 37A16003

Cuts:

- Up to 2/0 cable
- Features:
 - Lightweight
 - Compact
 - Hand pressure tool



Part # 37A16001

Glass Fuse and Ferrule Fuse Testers

Features:

- Test glass fuses and ferrule fuses, up to 24 volt, up to 1 7/8" length
- Green light shines when fuse is good
- Not for use with fuses in fuse panel



Part # 37A18003

Features:

- Test automotive, glass tube and ferrule fuses, up to 1 1/4" length
- Adjustable probe for appropriate fuse length
- Replaceable battery
- Not for use with fuses in fuse panel



Part # 31A32260

Fuse Pullers

Removes:

- 13/32" to 13/16" diameter fuses



Part # 31A32144

Removes:

- 9/32" to 1/2" diameter fuses

Features:

- 5" long, with a fully insulated no-slip handle
- 250 volts, amperage ranges are marked on the handle



Part # 37A20001

Removes:

- 1" to 1 3/4" diameter fuses



Part # 31A32145

Removes:

- 1/2" to 1" diameter fuses

Features:

- 7 1/2" long, with a fully insulated no-slip handle
- 0 to 100 amps at 250 volts and 600 volts, amperage ranges are marked on the handle



Part # 37A20002

Removes:

- 1 3/4" to 2 1/2" diameter fuses



Part # 31A32146

Removes:

- 0-60A T-Tron fuses



Part # 31A32147

Removes:

- 2 1/2" diameter fuses

Features:

- 7 1/2" long, with a fully insulated no-slip handle
- 31 to 600 amps at 250 volts and 31 to 400 amps at 600 volts, amperage ranges are marked on the handle



Part # 37A20003

Removes:

- This 3-way fuse puller removes glass tube and ATC blade fuses



Part # 31A31483

Torches, Heat Gun & Miscellaneous Tools

Torches, Heat Gun and Refills

Torches



Part # 37A19003

- Features:
- Powerful high-output torch
 - Piezzo ignition



Part # 37A19006

- Features:
- Lightweight torch
 - Adjustable flame
 - Piezzo ignition
 - 2500° F
 - 5.3" tall polymer body with stand



Part # 37A19002

- Features:
- Long-use torch
 - 120 minutes of fuel
 - Adjustable flame
 - Piezzo ignition
 - 2500° F
 - 5.5" tall brass body with rubber grip



Part # 37A19001

- Features:
- Compact pencil torch
 - 6" long cigar torch
 - Flip out stand
 - Piezzo button ignition
 - 2500° F
 - Burn time 30 minutes

Heat Gun



Part # 37A19013

- Features:
- 120 vac, 1200 watt
 - Heat deflector
 - High/Low/Off
 - High=1,100°F and Low=250°F
 - UL approved
 - CSA certified

Butane Refills



Part # 66C11418

- Features:
- **5.3 oz.**
 - multiple tips included



Part # 37A19012

- Features:
- **1 oz.**
 - multiple tips included

Miscellaneous Tools

Circuit Testing Tools



Part # 37A18001

- Features:
- Test **12 and 24 volt** vehicle systems
 - Hand operated
 - Hook on end of tool tip holds while piercing wire insulation



Part # 37A18002

- Features:
- Test **6 and 12 volt** vehicle systems
 - "Ice pick" type
 - Flexible Hypalon ground wire
 - Hand Operated
 - Spring strain relief on wire to handle
 - Replaceable bulb

Rosin Core Wire Solder 63/37



Diameter	Part Number
0.032	66C11413
0.062	66C11414
0.093	66C11415

One pound spools.

Hot Knife Tool



Part # 66C11013

- Features:
- 600° blade cuts most any style sleeve
 - Hot blade fuses sleeving fibers
 - Preventing fraying on expandable sleeving
 - Bench mount
 - Replaceable blades #66C10471

Razor Blades



Part # 66C11487

- Features:
- Single edge razor blades
 - 1 1/4" x 4 7/8"

Wire

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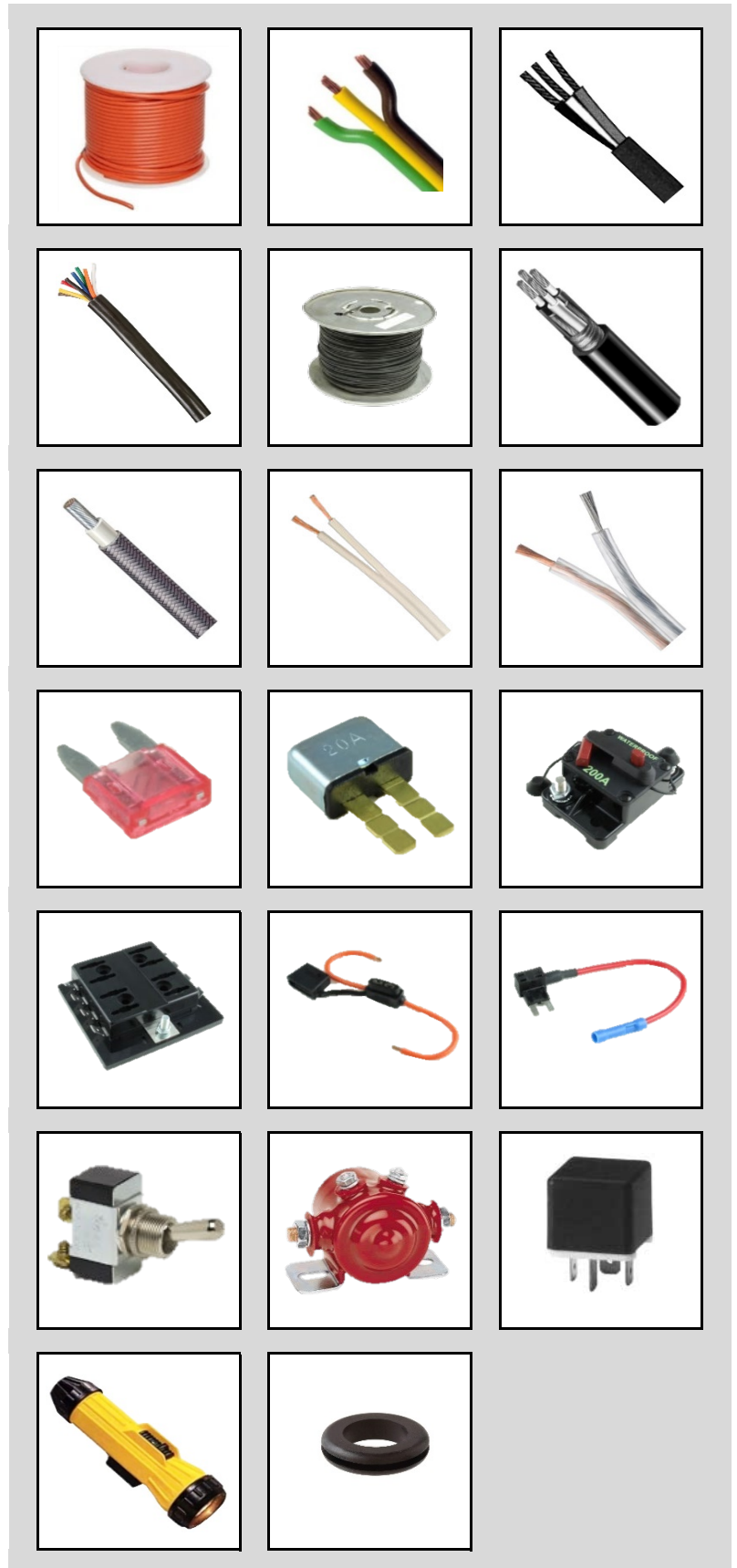
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GPT Automotive, GXL Abrasion Resistant Automotive, Bonded, & Mechanic's Wire

GPT Automotive Wire



Commonly used in automotive, truck, trailer, boat, and other low voltage applications. Smooth PVC jacket is resistant to abrasion. Made in the USA. 60 volts max. Maximum temperature rating of 176°F. Check website for larger spool quantities of 500-ft. to 1000-ft.

Color	Color	Color	Color	Color
22 Ga. / 100-ft Spools	18 Ga. / 100-ft Spools	16 Ga. (cont.)	14 Ga. (cont.)	10 Ga. / 25-ft Spools
Black 20A11074	Black 20A11008	Gray 20A11026	Pink 20A11044	Black 20A11061
Brown 20A11075	Brown 20A11009	Dark Green 20A11025	Purple 20A11045	Brown 20A11062
Dark Blue 20A11079	Dark Blue 20A11010	Light Green 20A11028	Red 20A11046	Dark Blue 20A11063
Light Blue 20A11084	Light Blue 20A11013	Orange 20A11029	Tan 20A11047	Light Blue 20A11065
Gray 20A11081	Gray 20A11012	Pink 20A11030	White 20A11048	Dark Green 20A11064
Green 20A11083	Dark Green 20A11011	Purple 20A11031	Yellow 20A11049	Light Green 20A11066
Orange 20A11077	Light Green 20A11014	Red 20A11032	12 Ga. / 25-ft Spools	Red 20A11067
Purple 20A11080	Orange 20A11015	Tan 20A11033	Black 20A11050	White 20A11068
Red 20A11076	Pink 20A11016	White 20A11034	Brown 20A11051	Yellow 20A11069
White 20A11082	Purple 20A11017	Yellow 20A11035	Dark Blue 20A11052	8 Ga. / 10-ft Spools
Yellow 20A11078	Red 20A11018	14 Ga. / 50-ft Spools	Light Blue 20A11055	Black 20A11070
20 Ga. / 100-ft Spools	Tan 20A11019	Black 20A11036	Gray 20A11054	Light Green 20A11071
Black 20A11001	White 20A11020	Brown 20A11037	Dark Green 20A11053	Red 20A11072
Brown 20A11002	Yellow 20A11021	Dark Blue 20A11038	Light Green 20A11056	White 20A11073
Light Blue 20A11003	16 Ga. / 100-ft Spools	Light Blue 20A11041	Orange 20A11057	
Light Green 20A11004	Black 20A11022	Gray 20A11040	Red 20A11058	
Red 20A11005	Brown 20A11023	Dark Green 20A11039	White 20A11059	
White 20A11006	Dark Blue 20A11024	Light Green 20A11042	Yellow 20A11060	
Yellow 20A11007	Light Blue 20A11027	Orange 20A11043		

GXL Abrasion Resistant Automotive Wire



It's so tough that it's commonly found in automotive applications and engine compartments where vibration and heat can cause wire fatigue. A step up from GPT wire, the polyethylene coating of this wire holds up to oil, heat and flame. It stands up to scrapes and cuts that can occur in the field. Also known as high-temperature automotive wire. Maximum temperature rating of 257°F. Made in the USA. 60 volts max. Order in 25-ft., 50-ft., 100-ft., 500-ft., and 1,000-ft. spool sizes.

Color	Color	Color	Color	Color
20 Ga. / 50-ft Spools	18 Ga. (cont.)	16 Ga. (cont.)	14 Ga. (cont.)	12 Ga. (cont.)
Black 20A12001	Pink 20A12014	Pink 20A12027	Pink 20A12040	White 20A12053
Blue 20A12002	Purple 20A12015	Purple 20A12028	Purple 20A12041	Yellow 20A12054
Green 20A12003	Red 20A12016	Red 20A12029	Red 20A12042	10 Ga. / 10-ft Spools
Red 20A12004	Tan 20A12017	White 20A12030	Tan 20A12043	Black 20A12055
White 20A12005	White 20A12018	Yellow 20A12031	White 20A12044	Dark Green 20A12056
18 Ga. / 50-ft Spools	Yellow 20A12019	14 Ga. / 50-ft. Spools	Yellow 20A12045	Red 20A12057
Black 20A12006	16 Ga. / 50-ft Spools	Black 20A12032	12 Ga. / 25-ft Spools	White 20A12058
Brown 20A12007	Black 20A12020	Brown 20A12033	Black 20A12046	8 Ga. / 10-ft Spools
Dark Blue 20A12008	Brown 20A12021	Dark Blue 20A12034	Brown 20A12047	Black 20A12059
Light Blue 20A12011	Dark Blue 20A12022	Light Blue 20A12037	Dark Blue 20A12048	Red 20A12060
Gray 20A12010	Light Blue 20A12024	Gray 20A12036	Light Blue 20A12050	White 20A12061
Dark Green 20A12009	Dark Green 20A12023	Dark Green 20A12035	Dark Green 20A12049	
Light Green 20A12012	Light Green 20A12025	Light Green 20A12038	Orange 20A12051	
Orange 20A12013	Orange 20A12026	Orange 20A12039	Red 20A12052	

Bonded GPT Wire



Need to run multiple wires? This wire makes it easy. The bonded GPT wires are color coded and have PVC insulation. -22°F to 176°F. Order in 50-ft., 100-ft., 500-ft., and 1,000-ft. spool sizes.

Wire Size (AWG)	2 Conductor Red/Black	2 Conductor Yellow/Brown	2 Conductor Green/Brown	3 Conductor Brown/Yellow/Green	4 Conductor White/Brown/Yellow/Green	5 Conductor White/Brown/Yellow/Green/Blue
18	20A15001	-----	-----	22A10557	22A10560	-----
16	20A15002	22A10563	22A10566	20A15003	20A15004	22A10573
14	20A15005	-----	-----	20A15006	20A15007	22A10569
12	20A15008	-----	-----	-----	-----	-----

Fastening Wire (Mechanic's Wire)



Annealed for extra flexibility. Made of steel. Sold on 5lb. spools.

Wire Size (AWG)	5lb. Spool Length	
18	830-ft.	66C11252
14	295-ft.	66C11250
12	100-ft.	66C11249

Welding Cable, Jumper Cable Ends, MTW, THHN, Lamp Cord & Speaker Wire

Welding Cable



This weather resistant cable is commonly used to wire truck and car batteries and for jumper cables. Excellent flexibility and able to carry a higher amperage load due to a larger number of strands. The thick EPDM jacket allows the cable to stand the test of time. Resists abrasion, cuts, flame, grease, oil, and solvents. Made in the USA. 600 volts max. Available in 10-ft., 25-ft., 50-ft., 100-ft., 500-ft., and 1,000-ft. Check website for larger spool quantities.

Wire Size (AWG)	Jacket OD	Stranding OD	Black	Red	Spool Size	Wire Size (AWG)	Jacket OD	Stranding OD	Black	Red	Spool Size
8	0.28"	0.14"	20A19021	20A19022	10-ft.	2/0	0.57"	0.40"	20A19011	20A19012	1-ft.
6	0.31"	0.18"	20A19001	20A19002	10-ft.	3/0	0.62"	0.45"	20A19013	20A19014	1-ft.
4	0.34"	0.20"	20A19003	20A19004	10-ft.	4/0	0.69"	0.52"	20A19015	20A19016	1-ft.
2	0.42"	0.29"	20A19005	20A19006	1-ft.	250	0.81"	0.60"	20A19023	-----	1-ft.
1	0.49"	0.31"	20A19007	20A19008	1-ft.	350	0.93"	0.72"	20A19025	-----	1-ft.
1/0	0.53"	0.36"	20A19009	20A19010	1-ft.						

Bonded Welding Cable



Need to run two leads? This welding cable has two welding cables bonded together to make installation and wire management easier. Used on lifts, jumper cables, auxiliary power sources. Packaged in 1-ft., 10-ft., 25-ft., 50-ft., and 100 ft. lengths. 60 amps max.

Wire Size (AWG)	Color	Part Number
8	Black and Yellow	20A19020
6	Black and Orange	20A19017
4	Black and White	20A19018
2	Black and White	20A19019

Jumper Cable Ends



Color	500 Amps	900 Amps
Black	24A32772	66C11039
Red	24A32775	66C11040

The **500 amp jumper cable ends** have copper jaws and accept up to 1/0 gauge welding cable. They come in red and black.

The **900 amp jumper cable ends** are solid copper and accept up to 2/0 gauge welding cable. The lugs bolt to the booster clamp. The jaws grip the battery posts, studs and side terminals. They come with red or black insulated grips.

Crimping, Cutting and Stripping Tools

Crimping Tool



Part # 37A12006
Part # 37A12011 (Ratcheting)

Crimps:
• **6 gauge - 250MCM** non-insulated and battery terminals, and copper lugs
Features:
• Rotating dies
• Compound action

Cable Cutting Tool



Part # 37A16002

Cuts:
• **Up to 4/0** cable
Features:
• Offset bite which eliminates frayed ends and compression
• Heavy duty tool
• Hand pressure tool

Ideal® Stripping Tools



Ideal # 45-128
Part # 37A15005

Strips:
• **0.25"-0.75"**
• For center of power cable up to 5/32" thick
Features:
• Extra blade stored in the handle



Ideal # 45-129
Part # 37A15006

Strips:
• **0.25"-0.75"**
• For end or center of power cable up to 5/32" thick
Features:
• Extra blade stored in the handle

Machine Tool Wire (MTW)



Machine tool wire is bare stranded copper with PVC insulation. It is rated for use up to 600 volts and temperatures up to 194°F. UL & CSA listed. Colors available black, blue, brown, green, red, white, yellow, dark green, dark green, light blue, light green, orange, pink, and purple. Order in 100-ft., and 500-ft. spool sizes.

Wire Size (AWG)	Strands	Insulation Thickness	Part Numbers	Spool Size
18	16	0.031"	20A20001 through 20A20007*	100-ft.
16	19	0.031"	20A20008 through 20A20016*	100-ft.
14	19	0.031"	20A20017 through 20A20025*	50-ft.
12	19	0.031"	20A20026 through 20A20030*	25-ft.
10	19	0.031"	20A20031 through 20A20033*	25-ft.
8	19	0.047"	20A20034*	10-ft.

*Please specify color

Speaker Wire

Speaker wire has a clear coating with a polarity stripe. Packaged in 25-ft. lengths.



Wire Size (AWG)	Part Number
18	66C10193

THHN/TFFN Wire



THHN is bare stranded copper with a nylon jacket over the PVC insulation. It is rated for use up to 600 volts, UL listed. Temperatures up to 194°F. Has an abrasion resistant slippery surface. Highly resistant to acids, chemicals, gasoline & flame. Colors available black, red, white, green, dark blue, brown, yellow, and orange. Order in 10-ft., 25-ft., 50-ft., 100-ft., and 500-ft. spool sizes.

Wire Size (AWG)	Strands	Insulation Thickness	Part Numbers	Spool Size
18	16	0.004"	20A21001 through 20A21003*	100-ft.
16	19	0.004"	20A21004 through 20A21007*	100-ft.
14	19	0.004"	20A21008 through 20A21012*	50-ft.
12	19	0.004"	20A21013 through 20A21017*	25-ft.
10	19	0.004"	20A21018 through 20A21019*	25-ft.
8	19	0.005"	20A21020*	10-ft.

*Please specify color

Lamp Cord

Our lamp cord is ribbed for polarity. It is rated for use up to 300 volts. UL listed and CSA certified. Packaged in 25-ft. lengths.



Wire Size (AWG)	Conductor	Black	White
18	2	66C10197	66C10198

Service Cord, High Temperature Wire (SRML & MG), Test Lead Wire & Alligator Clips

Service Cord

SJO and SO CSA certified. All of our service cord is UL listed and can be purchased in 10-ft..



Service Cord (SJO)

SJO is a hard service cord, with an oil resistant round jacket. It is rated for use up to 300 volts and temperatures up to 194°F.

Wire Size (AWG)	Conductors	Overall O.D.	Part No.	Wire Size (AWG)	Conductors	Overall O.D.	Part No.	Wire Size (AWG)	Conductors	Overall O.D.	Part No.
18	3	0.300"	66C10194	16	4	0.350"	66C10146	12	3	0.425"	66C10052
16	3	0.325"	66C10141	14	3	0.360"	66C10121	12	4	0.465"	66C10057
16	3	0.325"	66C10142	14	4	0.390"	66C10127	10	3	0.565"	66C10005

Heavy Duty Service Cord (SO)

SO is an extra hard service cord, with an oil resistant round jacket. It is rated for use up to 600 volts and temperatures up to 194°F.

Wire Size (AWG)	Conductors	Overall O.D.	Part No.
14	3	0.540"	66C10122
12	3	0.610"	66C10053
10	3	0.671"	66C10006

Ultra Flexible Service Cord (STO)

Very flexible, STO is a hard service cord, with a yellow oil resistant round jacket. Used as portable cord and dock/marine extensions. It is rated for use up to 600 volts and temperatures up to 194°F.

Wire Size (AWG)	Conductors	Overall O.D.	Part No.
16	3	0.400"	66C10143
16	4	0.430"	66C10147
14	3	0.540"	66C10123
12	3	0.610"	66C10054

392°F High-Temperature Wire (SRML)



Glass braid silicone rubber motor lead wire is for hazardous locations and for equipment in high temperature environments. Also quite flexible. Fire resistant. Color is black. Can handle 600 volts maximum. Use with our high temperature (900°) terminals.

Wire Size (AWG)	Spool Size	Wire Size (AWG)	Spool Size
18	20A13001 50-ft.	12	20A13004 10-ft.
16	20A13002 50-ft.	10	20A13005 10-ft.
14	20A13003 25-ft.		

868°F Extreme-Temperature Wire (MG)



Often used in industrial ovens, this braided glass yarn wire withstands temperatures up to 868°F. Max 600 volts and is UL listed.

Wire Size (AWG)	Spool Size	Wire Size (AWG)	Spool Size
18	20A14001 10-ft.	12	20A14004 1-ft.
16	20A14002 10-ft.	10	20A14005 1-ft.
14	20A14003 10-ft.	8	20A14006 1-ft.

Alligator Clips

Spring loaded test clips or hands free contact.



Amps	Length	Opening	Material	Type	Clip Only	Clip & Cover	Black Cover Only	Red Cover Only
10	2"	5/16"	Zinc Plated Steel	(A) Alligator Clip with Screw	66C10310	66C10311	66C10308	66C10309
10	2"	7/16"	Zinc Plated Steel	(B) Clip with Spring	66C10303	66C10304	66C10301	66C10302
20	2.4"	5/8"	Zinc Plated Steel	(B) Clip with Spring	66C10254	66C10255	66C10252	66C10253
25	2.8"	3/4"	HD Zinc Plated Steel	(B) Grounding Cable Clip	66C10242	66C10243	66C10240	66C10241
50	4.1"	1 1/16"	HD Zinc Plated Steel	(B) Automotive Clip with Spring	66C10222	66C10223	66C10220	66C10221
75	2.95"	7/16"	Copper	(C) Charging Clip with Black Handle	-----	66C10299	-----	-----
75	2.95"	7/16"	Copper	(C) Charging Clip with Red Handle	-----	66C10298	-----	-----
75	3"	3/4"	Solid Copper	(D) Automotive Clip with Spring	66C10249	66C10250	66C10247	66C10248
100	4.6"	1 1/16"	HD Solid Copper	(D) Automotive Clip with Spring	66C10219	-----	66C10220	66C10221
100	6"	1 5/8"	HD Zinc Plated Steel	(B) HD Grounding Cable Clip	66C10021	66C10022	66C10016	66C10017

Test Lead Wire (RTLW)

Annealed, tinned copper conductor for test equipment. Very flexible.



Wire Size (AWG)	Color	Part No.	Pkg. Qty.
18	Black	66C11481	Per foot
18	Red	66C11482	Per foot
18	Red/Black	66C11483	25' Red/25' Black

Banana Plugs

One piece construction with set screw that holds up to 18 gauge wire. These banana plugs are 15 amp rated and have a nickel plated brass body with a bronze spring.



Color	Length	Part No.	Pkg. Qty.
Black	1.08"	66C10457	5
Red	1.08"	66C10458	5

Glass Fuses

Glass, Industrial, and Ceramic Fuses (Bussmann fuses shown, we also offer **Littlefuse**)

Glass Fuses			Glass Fuses (Cont.)			Glass Fuses (Cont.)			Glass Fuses (Cont.)			Glass Fuses (Cont.)		
Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.
AGA			AGC (Cont.)			AGX (Cont.)			GDB (Cont.)			GMA (Cont.)		
1/4	31A31206	5	25	66C10376	25	3/4	31A31309	1	500	31A32430	1	2 1/2	66C10972	5
1/2	31A31205	5	30	66C10380	25	1	31A31294	5	630	31A32434	1	3	66C10973	5
3/4	31A31213	1	35	66C10381	25	1 1/4	31A31301	5	800	31A32436	1	3.15	31A32499	5
1	31A31204	10	40	31A31244	25	1 1/2	31A31300	5	GDC			3.5	31A32500	5
1 1/2	31A31208	10	50	31A31247	10	2	66C10398	5	1	31A32444	1	4	66C10974	5
2	66C10364	50	AGC-V			2 1/2	31A31304	10	1.25	31A32439	1	5	66C10975	5
2 1/2	31A31210	10	1/32	31A31259	1	3	31A31306	10	1.6	31A32440	1	6	31A32505	5
3	31A31212	10	1/2	31A31258	1	4	31A31311	5	2	31A32448	1	7	31A32508	5
5	66C10366	50	1	31A31257	1	5	66C10401	25	2.5	31A32445	1	8	31A32510	5
6	31A31214	25	1 1/4	31A31260	1	6	31A31313	10	3.15	31A32449	1	10	66C10970	5
7	31A31215	10	2	31A31261	1	7	31A31314	10	4	31A32453	1	15	31A32495	5
7 1/2	31A31216	25	3	31A31263	1	8	31A31316	10	5	31A32456	1	63	31A32507	5
10	31A31207	10	5	31A31264	1	10	66C10397	25	6.3	31A32457	1	100	31A32493	5
15	66C10363	50	20	31A31262	1	15	31A31302	10	32	31A32451	1	125	31A32494	5
20	31A31209	25	AGU			20	66C10399	25	40	31A32452	1	200	31A32497	5
25	31A31211	50	1	31A31265	10	25	31A31305	10	50	31A32455	1	250	31A32498	5
30	66C10365	50	2	31A31268	10	30	66C10400	25	63	31A32459	1	300	31A32501	5
AGC			3	31A31272	10	CF			100	31A32441	1	315	31A32502	5
1/200	31A31223	1	4	31A31275	10	1	31A31821	1	125	31A32442	1	500	31A32503	5
1/50	31A31226	1	5	31A31277	10	1.5	31A31822	1	160	31A32443	1	600	31A32506	5
1/32	31A31224	1	8	31A31282	10	2	66C10518	1	200	31A32446	1	750	31A32509	5
1/20	31A31222	1	10	31A31266	10	3	31A31825	1	250	31A32447	1	800	31A32511	5
1/10	31A31220	1	15	31A31267	10	5	31A31826	1	315	31A32450	1	GMA-V		
1/8	31A31227	5	20	31A31269	10	125	31A31823	1	500	31A32454	1	4	31A32514	1
15/100	31A31232	1	25	31A31271	10	250	31A31824	1	630	31A32458	1	GMC		
175/100	31A31234	1	30	66C10389	5	500	31A31827	1	800	31A32460	1	1	31A32515	1
3/16	31A31239	1	35	31A31273	10	C520			1/2	31A32463	1	1.5	31A32516	1
2/10	31A31236	1	40	66C10390	5	2	31A31527	1	3/4	31A32468	1	1.6	31A32517	1
1/4	31A31225	5	50	31A31278	10	3	31A31529	1	1	31A32462	1	2	31A32522	1
3/10	66C10378	5	60	31A31280	10	5	31A31530	1	1 1/2	31A32465	1	2.5	31A32523	1
3/8	31A31240	5	AGU-Gold Plated			125	31A31526	1	2	31A32467	1	3	31A32526	1
4/10	31A31243	1	20	31A31270	10	250	31A31528	1	3	66C10966	5	3.15	31A32527	1
45/100	31A31246	1	35	31A31274	10	GBC			4	31A32469	1	3.5	31A32528	1
1/2	31A31221	10	40	31A31276	10	5	31A32388	10	5	31A32470	1	4	31A32531	1
6/10	31A31248	10	50	31A31279	10	8	66C10960	5	6	31A32471	1	5	31A32534	1
3/4	66C10379	25	60	31A31281	10	15	31A32384	5	10	31A32464	1	6	31A32535	1
8/10	31A31251	10	AGW			16	31A32385	10	15	31A32466	1	6.3	31A32536	1
1	31A31219	25	1	31A31283	10	25	31A32386	10	15	31A32466	1	7	31A32540	1
1 2/10	31A31229	5	1 1/2	31A31285	10	30	31A32387	5	GLQ			8	31A32542	1
1 1/4	31A31228	25	2	31A31286	5	GDB			2	31A32472	1	10	31A32518	1
1 1/2	66C10368	25	2 1/2	31A31287	10	1	31A32419	1	3	31A32473	1	63	31A32538	1
1 6/10	31A31233	10	3	31A31289	10	1.25	31A32412	1	5	31A32474	1	80	31A32543	1
1 3/4	31A31230	10	4	66C10394	25	1.6	31A32413	1	GLR			100	31A32519	1
1 8/10	31A31235	10	5	31A31290	10	2	31A32423	1	1/2	31A32476	1	125	31A32520	1
2	66C10374	25	6	31A31291	10	2.5	31A32420	1	1	31A32475	1	150	31A32521	1
2 1/4	31A31238	10	7 1/2	31A31292	5	3	31A32424	1	1 1/2	31A32478	1	200	31A32524	1
2 1/2	31A31237	25	10	31A31284	5	4	31A32429	1	1 6/10	31A32481	1	250	31A32525	1
3	66C10377	25	15	66C10391	25	5	31A32432	1	2	31A32482	1	300	31A32529	1
3 2/10	31A31242	10	20	66C10392	25	6	31A32433	1	3	31A32483	1	315	31A32530	1
3 1/2	31A31241	10	25	31A31288	5	8	31A32438	1	4	31A32484	1	400	31A32532	1
4	66C10382	25	30	66C10393	25	10	31A32415	1	5	31A32485	1	500	31A32533	1
4 1/2	31A31245	1	AGX			16	31A32418	1	6	31A32486	1	600	31A32537	1
5	66C10383	25	1/200	31A31297	1	32	31A32426	1	7	31A32487	1	630	31A32539	1
6	66C10384	25	1/100	31A31296	1	40	31A32428	1	8	31A32488	1	750	31A32541	1
6 1/4	31A31249	10	1/32	31A31298	1	50	31A32431	1	9	31A32489	1	800	31A32544	1
7	31A31250	25	1/10	31A31295	1	63	31A32435	1	10	31A32477	1	GMC-V		
7 1/2	66C10385	25	1/8	31A31299	1	80	31A32437	1	12	31A32479	1	5	31A32545	1
8	66C10386	25	3/16	31A31308	1	100	31A32414	1	15	31A32480	1	8	31A32546	1
9	66C10387	25	2/10	31A31303	1	125	31A32416	1	GMA			GMD		
10	66C10371	25	1/4	66C10396	10	160	31A32417	1	1	66C10968	5	1	31A32547	1
12	66C10372	25	3/10	31A31307	1	200	31A32421	1	1.25	31A32490	5	1.25	31A32548	1
14	31A31231	25	3/8	31A31310	1	250	31A32422	1	1.5	66C10969	5	1.5	31A32549	1
15	66C10373	25	4/10	31A31312	1	315	31A32425	1	1.6	31A32492	5			
20	66C10375	25	1/2	66C10395	10	400	31A32427	1	2	66C10971	5			

(Continued on following page)

Glass & Ceramic Fuses

Glass, Industrial, and Ceramic Fuses (Bussmann fuses shown, we also offer Littlefuse)

Glass Fuses (Cont.)			Glass Fuses (Cont.)			Glass Fuses (Cont.)			Glass Fuses (Cont.)			Ceramic Fuses (Cont.)		
Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.
GMD (Cont.)			MDA (Cont.)			MDM			S500 (Cont.)			ABC (Cont.)		
1.6	31A32550	1	5	31A33235	1	6/10	31A33297	1	8	31A33705	1	5	31A31178	5
2	31A32553	1	6	31A33236	1	3	31A33295	1	10	31A33686	1	6	31A31179	5
2.5	31A32554	1	6 1/4	31A33238	1	10	31A33292	1	32	31A33695	1	7	31A31180	5
3	31A32557	1	7	31A33239	1	15	31A33293	1	40	31A33697	1	8	31A31181	5
4	31A32560	1	8	31A33240	1	20	31A33294	1	50	31A33700	1	9	31A31182	5
125	31A32551	1	10	66C11204	5	30	31A33296	1	63	31A33703	1	10	66C10346	5
150	31A32552	1	12	66C11205	5	MDQ			80	31A33706	1	12	31A31168	5
200	31A32555	1	15	66C11206	5	1/32	31A33302	1	100	31A33687	1	13	31A31169	5
250	31A32556	1	20	66C11207	5	1/16	31A33300	1	125	31A33688	1	15	66C10347	5
300	31A32558	1	25	31A33225	1	1/32	31A33304	1	160	31A33689	1	20	66C10348	5
315	31A32559	1	25	31A33226	1	1/16	31A33311	1	200	31A33691	1	25	31A31172	5
400	31A32561	1	30	66C11208	5	15/100	31A33299	1	250	31A33692	1	30	31A31176	5
500	31A32562	1	MDL			3/16	31A33321	1	315	31A33694	1	ABS		
600	31A32563	1	1/100	31A33245	1	2/10	31A33315	1	400	31A33698	1	5	31A31189	1
630	31A32564	1	1/32	31A33248	1	1/4	31A33303	1	500	31A33701	1	10	31A31184	1
750	31A32565	1	1/16	31A33246	1	3/10	31A33320	1	630	31A33704	1	15	31A31185	1
800	31A32566	1	1/10	31A33244	1	3/8	31A33323	1	800	31A33707	1	20	31A31186	1
GMF			1/8	31A33250	1	4/10	31A33327	1	S506			25	31A31187	1
1/2	31A32568	1	15/100	31A33256	1	1/2	31A33301	1	1	31A33742	1	30	31A31188	1
1	31A32567	1	175/100	31A33259	1	6/10	31A33330	1	1.25	31A33743	1	GBB		
2	31A32569	1	3/16	31A33269	1	7/10	31A33333	1	1.6	31A33744	1	1	31A32368	1
2 1/2	31A32570	1	2/10	31A33261	1	3/4	31A33322	1	2	31A33751	1	1 1/4	31A32370	1
3	31A32571	1	1/4	31A33249	1	8/10	31A33336	1	2.5	31A33752	1	2	31A32373	1
3 2/10	31A32572	1	3/10	31A33268	1	1	31A33298	1	3.15	31A33755	1	3	31A32376	1
4	31A32573	1	3/8	31A33271	1	1 2/10	31A33309	1	4	31A33758	1	4	31A32378	1
5	31A32574	1	4/10	31A33277	1	1 1/4	31A33307	1	5	31A33761	1	5	31A32379	1
6/10	31A32575	1	1/2	31A33247	1	1 1/2	31A33306	1	6.3	31A33764	1	6	31A32380	1
GMQ			6/10	31A33280	1	1 6/10	31A33312	1	8	31A33767	1	7	31A32381	1
1/2	31A32577	1	7/10	31A33283	1	1 8/10	31A33313	1	10	31A33745	1	8	31A32382	1
6/10	31A32586	1	3/4	31A33270	1	2	31A33314	1	12.5	31A33747	1	9	31A32383	1
8/10	31A32588	1	8/10	31A33286	1	2 1/4	31A33317	1	15	31A33749	1	10	31A32369	1
1	31A32576	1	1	31A33243	1	2 1/2	31A33316	1	32	31A33757	1	12	31A32371	1
1 1/4	31A32578	1	1 2/10	31A33254	1	2-8/10	31A33318	1	40	31A33759	1	15	31A32372	1
1 6/10	31A32579	1	1 1/4	31A33252	1	3	31A33319	1	50	31A33762	1	20	31A32374	1
2	31A32580	1	1 1/2	66C11209	5	3 2/10	31A33325	1	63	31A33765	1	25	31A32375	1
2 1/2	31A32581	1	1 6/10	31A33258	1	3 1/2	31A33324	1	80	31A33768	1	30	31A32377	1
3	31A32582	1	1 8/10	31A33260	1	4	31A33326	1	100	31A33746	1	GDA		
3 2/10	31A32583	1	2	66C11210	5	5	31A33328	1	125	31A33748	1	1	31A32395	1
4	31A32584	1	2 1/4	31A33264	1	6	31A33329	1	160	31A33750	1	1.25	31A32390	1
5	31A32585	1	2 1/2	31A33263	1	6 1/4	31A33331	1	200	31A33753	1	1.6	31A32391	1
6 1/4	31A32587	1	2 8/10	31A33266	1	7	31A33332	1	250	31A33754	1	2	31A32399	1
MDA			3	31A33267	1	7 1/2	31A33334	1	315	31A33756	1	2.5	31A32396	1
1/10	31A33215	1	3 2/10	31A33274	1	8	31A33335	1	400	31A33760	1	3.15	31A32400	1
1/8	31A33217	1	3 1/2	31A33273	1	9	31A33337	1	500	31A33763	1	4	31A32403	1
15/100	31A33220	1	4	31A33276	1	10	31A33305	1	630	31A33766	1	5	31A32406	1
2/10	31A33223	1	5	66C11211	5	12	31A33308	1	800	31A33769	1	6.3	31A32407	1
1/4	31A33216	1	6	31A33279	1	15	31A33310	1	S506-V			50	31A32405	1
3/10	31A33229	1	6 1/4	31A33281	1	SFE			8	31A33770	1	63	31A32409	1
3/8	31A33231	1	7	31A33282	1	4	66C11513	25	Ceramic Fuses			80	31A32411	1
4/10	31A33234	1	7 1/2	31A33284	1	6	66C11514	25	ABC			100	31A32392	1
1/2	66C11203	5	8	31A33285	1	7 1/2	66C11515	25	1/16	31A31162	1	125	31A32393	1
6/10	31A33237	1	9	31A33287	1	9	66C11516	25	1/10	31A31161	1	160	31A32394	1
3/4	31A33230	1	10	31A33251	1	14	66C11510	25	1/8	31A31165	5	200	31A32397	1
8/10	31A33241	1	12	31A33253	1	20	66C11511	25	1/4	31A31164	5	250	31A32398	1
1	31A33214	1	15	31A33255	1	30	66C11512	25	3/8	31A31175	5	315	31A32401	1
1 1/4	31A33219	1	20	31A33262	1	S500			1/2	31A31163	5	400	31A32402	1
1 1/2	31A33218	1	25	31A33265	1	1	31A33683	1	3/4	31A31174	5	500	31A32404	1
1 6/10	31A33221	1	30	31A33272	1	1.25	31A33684	1	1	31A31160	5	630	31A32408	1
2	31A33222	1	35	31A33275	1	1.6	31A33685	1	1 1/4	31A31167	5	800	31A32410	1
2 1/2	31A33224	1	40	31A33278	1	2	31A33690	1	1 1/2	31A31166	5	MBO		
2 8/10	31A33227	1	MDL-V			3.15	31A33693	1	2	31A31170	5	2	31A33213	1
3	31A33228	1	3/4	31A33291	1	4	31A33696	1	2	31A31171	5	10	31A33211	1
3 2/10	31A33232	1	1	31A33289	1	5	31A33699	1	3	31A31173	5	15	31A33212	1
4	31A33233	1	1-1/4	31A33290	1	6.3	31A33702	1	4	31A31177	5	(Continued on following page)		

Ceramic & Industrial Fuses

Ceramic and Industrial Fuses (Bussmann fuses shown, we also offer **Littlefuse**)

Ceramic Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)		
Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.
S501			ANL (Cont.)			BBS (Cont.)			ECNR (Cont.)			FNA (Cont.)		
1	31A33708	1	400	31A31350	1	20	31A31447	1	80	31A31888	1	3 1/2	31A32022	1
1.25	31A33709	1	500	31A31352	1	25	31A31448	1	90	31A31889	1	4	31A32023	1
2	31A33714	1	600	31A31354	1	30	31A31451	1	100	31A31859	1	5	66C10870	10
2.5	31A33715	1	675	31A31355	1	CDS			125	31A31861	1	6	31A32024	1
3.15	31A33718	1	750	31A31356	1	15	31A31801	1	150	31A31863	1	6 1/4	31A32025	1
4	31A33719	1	ANN			20	31A31803	1	175	31A31864	1	7	31A32026	1
5	31A33720	1	10	31A31358	1	30	31A31805	1	200	31A31868	1	8	31A32027	1
6.3	31A33723	1	35	31A31369	1	35	31A31806	1	225	31A31869	1	10	66C10866	10
8	31A33725	1	40	31A31371	1	45	31A31807	1	250	31A31871	1	12	31A32015	1
10	31A33710	1	50	31A31373	1	50	31A31808	1	300	31A31875	1	15	66C10867	5
50	31A33721	1	60	31A31375	1	90	31A31809	1	400	31A31879	1	20	31A32018	1
63	31A33724	1	80	31A31378	1	125	31A31800	1	600	31A31885	1	25	31A32020	1
80	31A33726	1	90	31A31380	1	150	31A31802	1	ECSR			30	31A32021	1
100	31A33711	1	100	31A31359	1	200	31A31804	1	1	31A31890	1	FNM		
125	31A33712	1	125	31A31360	1	CGL			2	31A31900	1	1/10	31A32030	10
160	31A33713	1	150	31A31361	1	15	31A31829	1	2.5	31A31901	1	1/8	31A32033	10
200	31A33716	1	175	31A31362	1	20	31A31830	1	3	31A31907	1	15/100	31A32040	10
250	31A33717	1	200	31A31363	1	100	31A31828	1	3.2	31A31908	1	2/10	31A32044	10
500	31A33722	1	225	31A31364	1	CDN			3.5	31A31909	1	1/4	31A32032	10
800	31A33727	1	250	31A31365	1	10	31A31785	1	4	31A31914	1	3/10	31A32050	1
S505			275	31A31366	1	12	31A31788	1	5	31A31918	1	4/10	31A32056	1
1	31A33728	1	300	31A31367	1	15	31A31789	1	6	31A31921	1	1/2	31A32031	1
1.25	31A33729	1	325	31A31368	1	20	31A31791	1	7	31A31924	1	6/10	31A32062	1
1.6	31A33730	1	350	31A31370	1	25	31A31793	1	8	31A31926	1	3/4	31A32051	1
2	31A33733	1	400	31A31372	1	30	31A31794	1	9	31A31928	1	8/10	66C10875	10
2.5	31A33734	1	500	31A31374	1	35	31A31795	1	10	31A31891	1	1	31A32029	1
3.15	31A33735	1	600	31A31376	1	40	31A31796	1	12	31A31894	1	1 1/8	31A32036	1
4	31A33736	1	700	31A31377	1	45	31A31797	1	15	31A31896	1	1 1/4	31A32035	1
5	31A33737	1	800	31A31379	1	50	31A31798	1	17.5	31A31898	1	1 4/10	31A32038	1
6.3	31A33739	1	BAF			60	31A31799	1	20	31A31902	1	1 1/2	31A32034	1
8	31A33740	1	1/2	31A31419	1	100	31A31786	1	25	31A31905	1	1 6/10	31A32041	1
10	31A33731	1	1	31A31418	1	110	31A31787	1	30	31A31910	1	1 8/10	31A32042	1
12	31A33732	1	1 1/2	31A31421	1	175	31A31790	1	35	31A31912	1	2	31A32043	1
500	31A33738	1	2	31A31424	1	200	31A31792	1	40	31A31915	1	2 1/4	31A32046	1
800	31A33741	1	2 1/2	31A31426	1	DFJ			45	31A31917	1	2 1/2	31A32045	1
Industrial Fuses			3	31A31428	1	40	31A31846	1	50	31A31919	1	2 8/10	31A32048	1
ACK			4	31A31430	1	60	31A31848	1	60	31A31922	1	3	31A32049	1
40	31A31199	1	5	31A31431	1	100	31A31843	1	70	31A31925	1	3 2/10	31A32053	1
60	31A31200	1	6	31A31432	1	150	31A31844	1	80	31A31927	1	3 1/2	31A32052	1
80	31A31201	1	6 1/4	31A31433	1	200	31A31845	1	90	31A31929	1	4	31A32055	1
100	31A31193	1	7	31A31434	1	400	31A31847	1	100	31A31892	1	4 1/2	31A32058	1
140	31A31194	1	8	31A31435	1	600	31A31849	1	110	31A31893	1	5	31A32059	1
160	31A31195	1	9	31A31436	1	ECNR			125	31A31895	1	5 6/10	31A32060	1
175	31A31196	1	10	31A31420	1	1	31A31857	1	150	31A31897	1	6	31A32061	1
200	31A31197	1	12	31A31422	1	2	31A31865	1	175	31A31899	1	6 1/4	31A32063	1
200	31A31198	1	15	31A31423	1	2.5	31A31866	1	200	31A31903	1	7	31A32064	1
ANL			20	31A31425	1	3	31A31872	1	225	31A31904	1	8	66C10874	10
35	31A31347	1	25	31A31427	1	3.2	31A31873	1	250	31A31906	1	9	31A32065	1
40	31A31349	1	30	31A31429	1	4	31A31877	1	300	31A31911	1	10	66C10871	10
50	31A31351	1	BBS			5	31A31881	1	350	31A31913	1	12	31A32037	1
60	31A31353	1	2/10	31A31446	1	6	31A31883	1	400	31A31916	1	15	31A32039	1
80	31A31357	1	4/10	31A31453	1	8	31A31887	1	500	31A31920	1	20	66C10872	10
100	31A31337	1	6/10	31A31456	1	10	31A31858	1	600	31A31923	1	25	31A32047	1
125	31A31338	1	3/4	31A31450	1	12	31A31860	1	FNA			30	66C10873	10
130	31A31339	1	8/10	31A31459	1	15	31A31862	1	2/10	31A32017	1	35	31A32054	1
150	31A31340	1	1 6/10	31A31443	1	20	31A31867	1	8/10	31A32028	1	40	31A32057	1
175	31A31341	1	1 8/10	31A31444	1	25	31A31870	1	1/2	31A32012	1			
200	31A31342	1	2	31A31445	1	30	31A31874	1	1	66C10865	10			
225	31A31343	1	3	31A31449	1	35	31A31876	1	1 1/8	31A32014	1			
250	31A31344	1	4	31A31452	1	40	31A31878	1	1 1/4	31A32013	1			
275	31A31345	1	5	31A31454	1	45	31A31880	1	1 6/10	31A32016	1			
300	66C10446	5	6	31A31455	1	50	31A31882	1	2	66C10868	10			
325	31A31346	1	7	31A31457	1	60	31A31884	1	2 1/2	31A32019	1			
350	31A31348	1	8	31A31458	1	70	31A31886	1	3	66C10869	10			

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Industrial Fuses

Industrial Fuses (Bussmann fuses shown, we also offer **Littlefuse**)

Industrial Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)		
Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.
FNQ			FNQ-R (Cont.)			FRN-R (Cont.)			FRS-R (Cont.)			FWC-F (Cont.)		
1/10	31A32070	1	6	31A32130	10	90	31A32201	5	25	66C10929	1	16	31A32283	1
1/8	31A32075	1	6 1/4	31A32134	1	100	66C10904	1	30	66C10930	1	20	31A32284	1
15/100	31A32091	1	7	31A32136	1	110	31A32156	1	35	66C10931	10	25	31A32285	1
3/16	31A32112	1	7 1/2	31A32137	1	125	31A32157	1	40	66C10932	10	32	31A32286	1
2/10	31A32098	1	8	31A32139	10	150	66C10907	1	45	31A32242	1	FWH		
1/4	31A32073	1	9	31A32143	1	175	31A32163	1	50	66C10934	10	35	31A32303	1
3/10	31A32110	1	10	31A32077	10	200	66C10910	1	60	66C10936	10	35	31A32304	1
4/10	31A32122	1	12	31A32085	10	225	31A32169	1	65	31A32252	1	40	31A32306	1
1/2	31A32071	1	15	31A32090	10	250	66C10912	1	70	31A32255	1	50	31A32307	1
6/10	31A32131	1	17 1/2	31A32094	1	300	31A32173	1	75	31A32257	1	60	31A32309	1
8/10	31A32140	1	20	31A32100	10	350	31A32178	1	80	66C10937	10	70	31A32310	1
1	31A32068	1	25	31A32106	1	400	31A32180	1	90	66C10939	1	80	31A32311	1
1 1/8	31A32082	1	30	31A32115	10	450	31A32184	1	100	66C10922	1	80	31A32312	1
1 1/4	31A32080	1	FRN-R			500	31A32185	1	110	31A32211	1	100	31A32292	1
1 3/10	31A32086	1	1/10	31A32149	1	600	31A32189	1	125	66C10924	1	125	31A32294	1
1 1/2	31A32078	1	1/8	31A32151	1	FRN-R ID™			150	66C10926	1	150	31A32295	1
1 6/10	31A32092	1	15/10	31A32159	1	10	31A32152	1	175	31A32218	1	150	31A32296	1
2	31A32096	1	2/10	31A32165	1	15	31A32160	1	200	31A32221	1	175	31A32297	1
2 1/4	31A32103	1	1/4	31A32150	1	20	31A32166	1	225	31A32225	1	175	31A32298	1
2 1/2	31A32101	1	3/10	31A32172	1	25	31A32170	1	250	31A32226	1	200	31A32299	1
2 8/10	31A32107	1	4/10	31A32179	10	30	31A32174	1	300	31A32231	1	250	31A32301	1
3	31A32108	1	1/2	66C10902	1	40	31A32181	1	350	31A32235	1	400	31A32305	1
3 2/10	31A32118	1	6/10	31A32188	1	50	31A32186	1	400	31A32239	1	600	31A32308	1
3 1/2	31A32116	1	8/10	31A32197	10	60	31A32190	1	450	31A32243	1	FWH-F		
4	31A32120	1	1	66C10901	1	FRS-R			500	31A32245	1	0.50	31A32288	1
4 1/2	31A32124	1	1 1/8	31A32155	1	1/10	31A32203	1	600	31A32249	1	1	31A32289	1
5	31A32126	1	1 1/4	31A32154	1	1/8	31A32206	1	FRS-R ID™			2	31A32290	1
5 6/10	31A32128	1	1 4/10	31A32158	1	15/100	31A32214	1	6	31A32253	1	5	31A32291	1
6	31A32129	1	1 1/2	31A32153	10	2/10	31A32220	1	10	31A32207	1	10	31A32293	1
6 1/4	31A32133	1	1 6/10	31A32161	10	1/4	31A32205	1	12	31A32212	1	20	31A32300	1
7	31A32135	1	1 8/10	31A32164	10	3/10	31A32230	1	15	31A32215	1	30	31A32302	1
8	31A32138	10	2	66C10908	1	4/10	31A32238	1	20	31A32222	1	FWP		
9	31A32142	1	2 1/4	31A32168	1	1/2	31A32204	1	25	31A32227	1	30	31A32328	1
10	31A32076	1	2 1/2	31A32167	1	6/10	31A32248	1	30	31A32232	1	40	31A32333	1
12	31A32084	1	2 8/10	31A32171	10	8/10	31A32259	1	35	31A32236	1	50	31A32334	1
14	31A32087	1	3	66C10913	1	1	31A32202	1	40	31A32240	1	50	31A32337	1
15	31A32089	1	3 2/10	31A32176	1	1 1/8	31A32210	1	45	31A32244	1	60	31A32338	1
20	31A32099	1	3 1/2	31A32175	10	1 1/4	31A32209	1	50	31A32246	1	70	31A32339	1
25	31A32105	10	4	66C10915	1	1 4/10	31A32213	1	60	31A32250	1	80	31A32342	1
30	31A32114	1	4 1/2	31A32182	10	1 1/2	31A32208	1	FWA			90	31A32343	1
FNQ-R			5	66C10917	1	1 6/10	31A32216	1	70	31A32279	1	90	31A32344	1
1/4	31A32074	1	5 6/10	31A32187	10	1 8/10	31A32219	1	80	31A32280	1	100	31A32316	1
3/10	31A32111	1	6	66C10919	1	2	66C10927	1	100	31A32262	1	125	31A32318	1
4/10	31A32123	1	6 1/4	31A32191	1	2 1/4	31A32224	1	125	31A32264	1	150	31A32319	1
1/2	31A32072	10	7	31A32192	1	2 1/2	31A32223	1	150	31A32265	1	175	31A32321	1
6/10	31A32132	1	7 1/2	31A32194	1	2 8/10	31A32228	1	200	31A32267	1	200	31A32322	1
3/4	31A32113	1	8	31A32196	1	3	31A32229	1	250	31A32269	1	300	31A32326	1
8/10	31A32141	1	9	31A32200	10	3 2/10	31A32234	1	300	31A32271	1	350	31A32330	1
1	31A32069	10	10	66C10903	10	3 1/2	31A32233	1	350	31A32273	1	FWP-F		
1 1/8	31A32083	1	12	66C10905	10	4	31A32237	1	400	31A32275	1	10	31A32317	1
1 1/4	31A32081	1	15	66C10906	10	4 1/2	31A32241	1	600	31A32278	1	15	31A32320	1
1 4/10	31A32088	1	17 1/2	31A32162	10	5	66C10933	1	FWA-F			20	31A32323	1
1 1/2	31A32079	1	20	66C10909	10	5 6/10	31A32247	1	5	31A32277	1	25	31A32324	1
1 6/10	31A32093	1	25	66C10911	10	6	66C10935	1	10	31A32263	1	25	31A32325	1
1 8/10	31A32095	1	30	66C10914	1	6 1/4	31A32251	1	15	31A32266	1	30	31A32327	1
2	31A32097	10	35	31A32177	10	7	31A32254	1	20	31A32268	1	32	31A32329	1
2 1/4	31A32104	1	40	66C10916	1	7 1/2	31A32256	1	25	31A32270	1	40	31A32331	1
2 1/2	31A32102	1	45	31A32183	10	8	31A32258	1	30	31A32272	1	40	31A32332	1
3	31A32109	10	50	66C10918	10	9	66C10938	1	35	31A32274	1	50	31A32335	1
3 2/10	31A32119	1	60	66C10920	1	10	66C10921	1	40	31A32276	1	50	31A32336	1
3 1/2	31A32117	1	70	31A32193	1	12	66C10923	1	FWC-F			80	31A32340	1
4	31A32121	10	75	31A32195	1	15	66C10925	1	8	31A32287	1	80	31A32341	1
4 1/2	31A32125	1	80	31A32198	1	17 1/2	31A32217	1	10	31A32281	1	100	31A32315	1
5	31A32127	10	85	31A32199	1	20	66C10928	1	12	31A32282	1	(Continued on following page)		

Industrial Fuses

Industrial Fuses (Busmann fuses shown, we also offer **Littlefuse**)

Industrial Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)		
Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.
FWX			JJN (Cont.)			KBC			KTK (Cont.)			KTN (Cont.)		
35	31A32355	1	125	31A32755	1	3	31A32853	1	20	31A32910	10	110	31A32954	1
40	31A32357	1	150	31A32757	1	15	31A32852	1	25	31A32912	1	175	31A32956	1
50	31A32358	1	175	31A32758	1	400	31A32854	1	30	31A32916	10	200	31A32959	1
60	31A32360	1	200	31A32759	1	KLM			35	31A32918	1	250	31A32961	1
90	31A32361	1	225	31A32760	1	3/10	31A32876	1	40	31A32921	10	400	31A32966	1
100	31A32345	1	250	31A32761	1	1	31A32867	1	45	31A32922	1	KTU		
175	31A32349	1	300	31A32763	1	1 1/2	31A32869	1	50	31A32924	1	700	31A32987	1
200	31A32350	1	350	31A32764	1	2	31A32872	1	KTK-R			800	31A32988	1
250	31A32351	1	400	31A32766	1	3	31A32875	1	1/10	31A32931	1	1000	31A32983	1
400	31A32356	1	450	31A32767	1	5	31A32878	1	1/8	31A32934	1	1500	31A32984	1
600	31A32359	1	500	31A32769	1	10	31A32868	1	2/10	31A32937	1	2000	31A32985	1
FWX-F			600	31A32771	1	12	31A32870	1	1/4	31A32933	1	3000	31A32986	1
2	31A32353	1	800	31A32774	1	15	31A32871	1	3/10	31A32940	1	LKN		
10	31A32346	1	1000	31A32752	1	20	31A32873	1	4/10	31A32944	1	5	31A33004	1
12	31A32347	1	1200	31A32754	1	25	31A32874	1	1/2	31A32932	1	6	31A33006	1
12	31A32348	1	JKS			30	31A32877	1	6/10	31A32946	1	10	31A32991	1
25	31A32352	1	3	31A32808	1	KLU			3/4	31A32941	1	15	31A32994	1
30	31A32354	1	4	31A32812	1	601	31A32881	1	1	66C11061	10	20	31A32995	1
GBA			6	31A32816	10	650	31A32882	1	1 1/2	31A32935	1	25	31A32996	1
2	31A32365	1	10	31A32796	1	800	31A32883	1	2	31A32939	10	30	31A32998	1
3	31A32366	1	12	31A32799	10	1000	31A32879	1	2 1/2	31A32938	1	40	31A33002	1
5	31A32367	1	15	31A32801	10	1200	31A32880	1	3	31A32943	1	50	31A33005	1
10	31A32364	1	20	31A32804	10	KRP-C			3 1/2	31A32942	1	60	31A33007	1
JJS			25	31A32807	10	601	31A32892	1	4	31A32945	1	70	31A33008	1
1	31A32776	1	30	31A32809	10	650	31A32893	1	5	66C11073	1	80	31A33009	1
3	31A32785	1	35	31A32811	10	700	31A32894	1	6	31A32947	1	80	31A33010	1
6	66C11048	10	40	31A32813	1	750	31A32895	1	7	31A32948	1	100	66C11075	10
10	31A32777	1	45	31A32814	1	800	31A32896	1	8	31A32949	1	110	31A32992	1
15	66C11042	10	50	31A32815	1	1000	31A32885	1	9	31A32950	1	125	31A32993	1
20	66C11043	10	60	31A32817	1	1200	31A32886	1	10	66C11064	10	150	66C11076	10
25	66C11044	10	70	31A32818	1	1600	31A32887	1	12	31A32936	1	200	66C11077	10
30	66C11045	10	80	31A32819	1	2000	31A32888	1	15	66C11066	10	250	31A32997	1
35	66C11046	10	90	31A32820	1	2500	31A32889	1	20	66C11068	10	300	31A33000	1
40	66C11047	10	100	31A32797	1	3000	31A32890	1	25	66C11070	10	350	31A33001	1
45	31A32788	1	110	31A32798	1	5000	31A32891	1	30	66C11072	10	400	31A33003	1
50	31A32789	1	125	31A32800	1	KRP-CL			KTS			LKS		
60	31A32791	1	150	31A32802	1	400	31A32897	1	6	31A32979	1	3	31A33019	1
70	31A32793	1	175	31A32803	1	KTK			30	31A32976	1	6	31A33027	1
80	31A32794	1	200	31A32805	1	1/10	31A32899	10	60	31A32980	1	10	31A33011	1
90	31A32795	1	225	31A32806	1	1/8	31A32902	1	70	31A32981	1	15	31A33013	1
100	31A32778	1	300	31A32810	1	2/10	31A32909	1	80	31A32982	1	20	31A33015	1
110	31A32779	1	KAB			1/4	31A32901	1	100	31A32973	1	25	31A33017	1
125	31A32780	1	2	31A32827	1	3/10	31A32914	1	150	31A32974	1	30	31A33020	1
150	31A32781	1	3	31A32830	1	4/10	31A32920	1	200	31A32975	1	35	31A33022	1
175	31A32782	1	4	31A32832	1	1/2	31A32900	1	350	31A32977	1	40	31A33023	1
200	31A32783	1	5	31A32833	1	6/10	31A32926	1	400	31A32978	1	45	31A33025	1
250	31A32784	1	15	31A32826	1	3/4	31A32915	1	KTN			50	31A33026	1
350	31A32786	1	20	31A32828	1	1	31A32898	1	1	31A32951	1	60	31A33028	1
400	31A32787	1	25	31A32829	1	1 1/4	31A32904	1	2	31A32957	1	70	31A33030	1
500	31A32790	1	30	31A32831	1	1 1/2	31A32905	1	3	31A32962	1	100	31A33012	10
600	31A32792	1	KAC			2	31A32908	1	4	31A32964	1	150	31A33014	10
JJN			25	31A32836	1	2 1/2	31A32911	1	5	31A32968	1	200	31A33016	10
6	66C11041	10	35	31A32838	1	3	31A32913	1	6	31A32969	1	250	31A33018	1
10	31A32750	1	60	31A32839	1	3 1/2	31A32917	1	8	31A32971	1	300	31A33021	1
15	31A32756	1	80	31A32840	1	4	31A32919	1	10	31A32952	1	400	31A33024	1
30	31A32762	1	150	31A32834	1	5	31A32923	10	15	31A32955	1	600	31A33029	1
40	31A32765	1	175	31A32835	1	6	31A32925	1	20	31A32958	1	LP-CC		
50	31A32768	1	300	31A32837	1	7	31A32927	1	25	31A32960	1	1/2	31A33032	1
60	31A32770	1	KAX			7 1/2	31A32928	1	30	31A32963	1	6/10	31A33057	1
70	31A32772	1	5	31A32849	1	8	31A32929	1	40	31A32965	1	8/10	31A33062	1
80	31A32773	1	10	31A32845	1	9	31A32930	1	45	31A32967	1	1	31A33031	1
90	31A32775	1	12	31A32846	1	10	31A32903	10	60	31A32970	1	1 1/8	31A33036	1
100	31A32751	1	15	31A32847	1	12	31A32906	1	90	31A32972	1	1 1/4	31A33035	1
110	31A32753	1	20	31A32848	1	15	31A32907	10	100	31A32953	1	(Continued on following page)		

Industrial Fuses

Industrial Fuses (Bussmann fuses shown, we also offer Littlefuse)

Industrial Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)			Industrial Fuses (Cont.)		
Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.	Amps	Pkg.	Qty.
LP-CC (Cont.)			LPJ-SP (Cont.)			LPNK-SPI			NITD (Cont.)			NOS (Cont.)		
1 4/10	31A33038	1	200	31A33079	1	35	31A33134	1	10	31A33385	1	10	31A33527	1
1 1/2	31A33034	1	225	31A33084	1	40	31A33138	1	20	31A33387	1	12	31A33530	1
1 6/10	31A33040	1	250	31A33086	1	60	31A33145	1	25	31A33388	1	15	31A33532	1
1 8/10	31A33041	1	300	31A33090	1	100	31A33113	1	32	31A33389	1	20	31A33536	1
2	31A33042	1	350	31A33093	1	300	31A33129	1	NON			25	31A33539	1
2 1/4	31A33045	1	400	31A33095	1	350	31A33132	1	1/8	31A33477	1	30	31A33542	1
2 1/2	31A33044	1	450	31A33099	1	LPSK-SP			1/2	31A33476	1	35	31A33544	1
2 8/10	31A33047	1	LPJ-SPI			1 1/4	31A33155	1	3/4	31A33497	1	40	31A33547	1
3	31A33048	1	6	31A33104	1	2	31A33172	1	8/10	31A33520	1	45	31A33549	1
3 2/10	31A33051	1	10	31A33066	1	2 1/2	31A33169	1	1	31A33475	1	50	31A33552	1
3 1/2	31A33050	1	15	31A33072	1	3	31A33178	1	1 1/4	31A33481	1	60	31A33555	1
4	31A33052	1	17 1/2	31A33075	1	4	31A33183	1	1 1/2	31A33480	1	70	31A33558	1
4 1/2	31A33053	1	20	31A33081	1	5	31A33186	1	1 6/10	31A33487	1	75	31A33559	1
5	31A33054	1	25	31A33087	1	6	31A33191	1	6/10	31A33489	1	80	31A33561	1
5 6/10	31A33055	1	30	31A33091	1	6 1/4	31A33190	1	2 1/2	31A33492	1	90	31A33563	1
6	31A33056	1	40	31A33097	1	10	31A33154	1	3	31A33496	1	100	31A33528	1
6 1/4	31A33058	1	45	31A33100	1	12	31A33158	1	3 2/10	31A33500	1	110	31A33529	1
7	31A33059	1	50	31A33102	1	15	31A33161	1	4	31A33503	1	125	31A33531	1
7 1/2	31A33060	1	60	31A33103	1	17 1/2	31A33163	1	5	31A33508	1	150	31A33533	1
8	31A33061	1	70	31A33106	1	20	31A33167	1	6	31A33511	1	175	31A33534	1
9	31A33063	1	80	31A33109	1	25	31A33171	1	6 1/4	31A33514	1	200	31A33537	1
10	31A33033	1	90	31A33110	1	30	31A33174	1	7	31A33516	1	225	31A33538	1
12	31A33037	1	100	31A33065	1	35	31A33177	1	8	31A33519	1	250	31A33540	1
15	31A33039	1	200	31A33080	1	40	31A33180	1	9	31A33522	1	300	31A33543	1
20	31A33043	1	225	31A33085	1	45	31A33182	1	10	31A33478	1	350	31A33545	1
25	31A33046	1	355	31A33094	1	50	31A33185	1	12	31A33483	1	400	31A33548	1
30	31A33049	1	400	31A33096	1	60	31A33189	1	15	31A33485	1	450	31A33550	1
LPJ-SP			LPNK-SP			70	31A33192	1	20	31A33490	1	500	31A33553	1
1	31A33078	10	1/2	31A33111	1	80	31A33194	1	25	31A33494	1	600	31A33556	1
1 1/4	31A33067	10	1	31A33119	1	90	31A33195	1	30	31A33498	1	PON		
1 6/10	31A33073	10	2	31A33127	1	100	31A33152	1	35	31A33501	1	15	31A33586	1
1 8/10	31A33077	10	2 1/2	31A33122	1	125	31A33157	1	40	31A33504	1	20	31A33587	1
2	31A33089	10	2 8/10	31A33126	1	150	31A33159	1	45	31A33506	1	25	31A33588	1
2 1/4	31A33083	10	3	31A33135	1	175	31A33164	1	50	31A33509	1	30	31A33589	1
2 1/2	31A33082	10	5	31A33142	1	200	31A33165	1	60	31A33512	1	35	31A33590	1
2 8/10	31A33088	10	5 6/10	31A33141	1	225	31A33170	1	65	31A33515	1	40	31A33591	1
3	31A33092	10	6	31A33146	1	300	31A33173	1	70	31A33517	1	45	31A33592	1
3 1/2	31A33101	10	8	31A33149	1	350	31A33176	1	75	31A33518	1	50	31A33593	1
4	31A33098	10	10	31A33114	1	400	31A33179	1	80	31A33521	1	60	31A33594	1
4 1/2	31A33098	10	12	31A33116	1	500	31A33184	1	90	31A33523	1	SC		
5	66C11094	10	15	31A33118	1	600	31A33187	1	100	31A33479	1	1/2	31A33817	1
6	66C11096	10	20	31A33121	1	LPSK-SPI			110	31A33482	1	1	31A33816	1
7	31A33107	10	25	31A33125	1	7	31A33193	1	125	31A33484	1	1 1/2	31A33819	1
8	66C11097	10	30	31A33130	1	15	31A33162	1	150	31A33486	1	2	31A33822	1
10	66C11084	10	35	31A33133	1	20	31A33168	1	175	31A33488	1	2 1/2	31A33824	1
12	66C11085	10	40	31A33137	1	30	31A33175	1	225	31A33493	1	3	31A33826	1
15	31A33071	10	45	31A33139	1	40	31A33181	1	200	31A33491	1	4	31A33829	1
17 1/2	31A33074	10	50	31A33140	1	100	31A33153	1	250	31A33495	1	5	31A33832	1
20	66C11086	10	60	31A33144	1	110	31A33156	1	300	31A33499	1	6	31A33834	1
25	66C11087	10	70	31A33147	1	150	31A33160	1	350	31A33502	1	7	31A33836	1
30	66C11088	10	80	31A33148	1	200	31A33166	1	400	31A33505	1	8	31A33837	1
35	66C11089	10	90	31A33150	1	600	31A33188	1	450	31A33507	1	10	31A33818	1
40	66C11091	10	100	31A33112	1	MIC			500	31A33510	1	12	31A33820	1
45	66C11092	10	125	31A33115	1	1	31A33339	1	600	31A33513	1	15	31A33821	1
50	66C11093	10	150	31A33117	1	3	31A33343	1	NOS			20	31A33823	1
60	66C11095	10	200	31A33120	1	5	31A33345	1	1	31A33526	1	25	31A33825	1
70	31A33105	10	225	31A33123	1	10	31A33340	1	2	31A33535	1	30	31A33827	1
80	31A33108	10	250	31A33124	1	15	31A33341	1	3	31A33541	1	35	31A33828	1
90	66C11098	10	300	31A33128	1	20	31A33342	1	4	31A33546	1	40	31A33830	1
100	31A33064	10	350	31A33131	1	30	31A33344	1	5	31A33551	1	45	31A33831	1
110	31A33068	10	400	31A33136	1	NITD			6	31A33554	1	50	31A33833	1
125	31A33069	10	600	31A33143	1	2	31A33386	1	7	31A33557	1	60	31A33835	1
150	31A33070	10				4	31A33390	1	8	31A33560	1			
175	31A33076	10				6	31A33391	1	9	31A33562	1			

Glass Fuse Holders, Fuse Testers, Fuse Pullers & Glass Fuse Kit

Glass Inline Fuse Holders

Protect your precious electronics with this inline fuse holder. The cap seals out moisture to protect the circuit from the harsh environment. Simply splice this into your wiring. Fuses/circuit breakers sold separately. Fuse holders can be purchased individually. **40A12017** is UL recognized.



Wire Size (AWG)	Maximum Volts	Amps	For Fuse Sizes	Connection	Waterproof Ratings
AGC, 312, 313, GDL, GGC, MDL					
16	32	20	1/4" x 5/8" to 1/4" x 1 1/4"	Wire Leads	N/A
12	32	30	1/4" x 1 1/4"	Wire Leads	N/A
18-12	32	30	1/4" x 7/8" to 1/4" x 1 1/4"	Crimp On	N/A
Harsh-Environment					
18-12	32	30	1/4" x 1 1/4"	Crimp On	Waterproof
16-12	250	20	1/4" x 1 1/4"	Crimp On	Water-Resistant
High-Voltage / FNM, FNQ, KLM, KTK, BAF					
12-8	600	30	13/32" x 1 1/2"	Crimp On	Submersible

Panel-Mount Fuse Holder



Use these panel-mount fuse holders with 1/4" x 1 1/4" glass fuses. Max panel thickness of 0.312" and 0.505" hole diameter.

Amps	Volts	Connection	Fuse Size
(A) 15	250	3/16" Quick Connects	1/4" X 1-1/4" 66C11019
(B) 15	250	1/4" Quick Connects	1/4" X 1-1/4" 66C11006
(C) 30	250	Solder	1/4" X 1-1/4" 66C11005
			Replacement cap for #66C11006 and #66C11005 66C10836

Fuse Testers and Pullers

Glass Fuse and Ferrule Fuse Tester



Part # 37A18003

- Features:
- Test glass fuses and ferrule fuses, up to 24 volt, up to 1 7/8" length
 - Green light shines when fuse is good
 - Not for use with fuses in fuse panel



Part # 31A32260

- Features:
- Test automotive, glass tube and ferrule fuses, up to 1 1/4" length
 - Adjustable probe for appropriate fuse length
 - Replaceable battery
 - Not for use with fuses in fuse panel

Fuse Pullers



Part # 31A32144

- Removes:
- 13/32" to 13/16" diameter fuses



Part # 37A20003

- Removes:
- 1/2" to 1" diameter fuses



Part # 31A32145

- Removes:
- 1" to 1 3/4" diameter fuses

- Features:
- 7 1/2" long, with a fully insulated no-slip handle
 - 0 to 100 amps at 250 volts and 600 volts, amperage ranges are marked on the handle



Part # 31A32146

- Removes:
- 1 3/4" to 2 1/2" diameter fuses



Part # 37A20001

- Removes:
- 2 1/2" diameter fuses



Part # 31A32147

- Removes:
- 0-60A T-Tron fuses

- Features:
- 7 1/2" long, with a fully insulated no-slip handle
 - 31 to 600 amps at 250 volts and 31 to 400 amps at 600 volts, amperage ranges marked on the handle



Part # 31A31483

- Removes
- This 3-way fuse puller removes glass tube and ATC blade fuses

Glass Fuse Kit

Glass fuse kit includes 180 pieces. 13 different sizes in a small plastic box, 11"w x 6 3/4"d x 1 3/4"h.



Part # 66C10962

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
66C10374	2 Amp AGC Glass Fuse	15	66C10376	25 Amp AGC Glass Fuse	15
66C10377	3 Amp AGC Glass Fuse	15	66C10380	30 Amp AGC Glass Fuse	15
66C10383	5 Amp AGC Glass Fuse	15	66C10963	250 Amp GFA Glass Fuse	15
66C10385	7 1/2 Amp AGC Glass Fuse	15	66C11516	9 Amp SFE Glass Fuse	15
66C10371	10 Amp AGC Glass Fuse	15	66C11510	14 Amp SFE Glass Fuse	15
66C10373	15 Amp AGC Glass Fuse	15	66C11512	30 Amp SFE Glass Fuse	15
66C10375	20 Amp AGC Glass Fuse	15			

Automotive Fuses



Amps	Color	Pkg.	Qty.
ATC/ATO			
Fuse Types: ATC, ATO, AF, 257			
1	Black	25A11001	25
2	Gray	25A11002	25
3	Violet	25A11003	25
4	Pink	25A11004	25
5	Tan	25A11005	25
7.5	Brown	25A11006	25
10	Red	25A11007	25
15	Blue	25A11008	25
20	Yellow	25A11009	25
25	Clear	25A11010	25
30	Green	25A11011	25
35	Blue/Grn	25A11012	25
40	Amber	25A11013	25



Amps	Color	Pkg.	Qty.
ATC ID™			
Fuse Types: ATC, ATO, AF, 257			
3	Violet	31A31386	1
5	Tan	31A31388	1
7.5	Brown	31A31389	1
10	Red	31A31381	1
15	Tan	31A31382	1
20	Blue	31A31383	1
25	Clear	31A31384	1
30	Green	31A31385	1
40	Orange	31A31387	1



Amps	Color	Pkg.	Qty.
Mini/ATM			
Fuse Types: ATM, AF2, 297			
1	Black	25A12011	25
2	Gray	25A12001	25
3	Violet	25A12002	25
4	Pink	25A12003	25
5	Tan	25A12004	25
7.5	Brown	25A12005	25
10	Red	25A12006	25
15	Blue	25A12007	25
20	Yellow	25A12008	25
25	Clear	25A12009	25
30	Green	25A12010	25



Amps	Color	Pkg.	Qty.
Mini/ATM ID™			
Fuse Types: ATM, AF2, 297			
3	Violet	31A33352	1
5	Tan	31A33354	1
7.5	Brown	31A33355	1
10	Red	31A33347	1
15	Blue	31A33348	1
20	Yellow	31A33349	1
25	Clear	31A33350	1
30	Green	31A33351	1



Amps	Color	Pkg.	Qty.
Low-Profile Mini			
Fuse Types: APS, ATT			
2	Gray	25A13001	10
3	Violet	25A13002	10
4	Pink	25A13003	10
5	Tan	25A13004	10
7.5	Brown	25A13005	10
10	Red	25A13006	10
15	Blue	25A13007	10
20	Yellow	25A13008	10
25	Clear	25A13009	10
30	Green	25A13010	10



Amps	Color	Pkg.	Qty.
Micro			
Fuse Types: ATR			
5	Tan	25A24001	5
7.5	Brown	25A24002	5
10	Red	25A24003	5
15	Blue	25A24004	5
20	Yellow	25A24005	5
25	Clear	25A24006	5
30	Green	25A24007	5



Amps	Color	Pkg.	Qty.
Micro 3-Leg			
Fuse Types: ATL, ANK			
5	Tan	25A24008	5
7.5	Brown	25A24009	5
10	Red	25A24010	5
15	Blue	25A24011	5



Amps	Color	Pkg.	Qty.
Maxi			
Fuse Types: AF3, APX, 299			
20	Yellow	25A14001	1
25	Gray	25A14008	1
30	Green	25A14002	1
35	Brown	25A14009	1
40	Orange	25A14003	1
50	Red	25A14004	1
60	Blue	25A14005	1
70	Tan	25A14006	1
80	Clear	25A14007	1



Amps	Color	Pkg.	Qty.
Maxi ID™			
Fuse Types: AF3, APX, 299			
20	Yellow	25A14036	1
30	Green	25A14010	1
40	Orange	25A14011	1
50	Red	25A14012	1



Amps	Color	Pkg.	Qty.
Maxi ID™ (Cont.)			
Fuse Types: AF3, APX, 299			
60	Blue	25A14013	1
70	Tan	25A14014	1
80	Clear	25A14015	1
100	Violet	25A14035	1



Amps	Color	Pkg.	Qty.
AMG			
80	Red	25A26012	1
100	Yellow	25A26001	1
125	Green	25A26002	1
150	Tan	25A26003	1
175	White	25A26004	1
200	Blue	25A26005	1
225	Gray	25A26006	1
250	Purple	25A26007	1
300	White	25A26008	1
400	Purple	25A26009	1
450	Gold	25A26010	1
500	-----	25A26011	1



Amps	Color	Pkg.	Qty.
AMI			
30	Orange	31A31321	1
40	Lt/Green	31A31322	1
50	Red	31A31323	1
60	Yellow	31A31324	1
70	Brown	31A31325	1
80	White	31A31326	1
100	Blue	31A31327	1
125	Pink	31A31328	1
175	----	31A31329	1
200	----	31A31330	1



Amps	Color	Pkg.	Qty.
FLB			
20	----	25A15029	1
30	Pink	25A15012	1
40	Green	25A15013	1
50	Red	25A15014	1
60	Yellow	25A15015	1
70	Brown	25A15016	1
80	Black	25A15017	1
100	Blue	25A15018	1
120	Gray	25A15026	1
140	Maroon	25A15028	1



Amps	Color	Pkg.	Qty.
FLD			
30	Pink	31A31981	1
40	Green	31A31982	1
50	Red	31A31983	1
60	Yellow	31A31984	1
70	Brown	31A31985	1
80	Black	31A31986	1
100	Blue	31A31978	1
120	Gray	31A31979	1
140	Maroon	31A31980	1



Amps	Color	Pkg.	Qty.
FLF			
20	Blue	25A15019	1
30	Pink	25A15020	1
40	Green	25A15021	1
50	Red	25A15022	1
60	Yellow	25A15023	1



Amps	Color	Pkg.	Qty.
FLG			
50	Red	31A31987	1
60	Yellow	31A31988	1
80	Black	31A31989	1



Amps	Color	Pkg.	Qty.
FLM			
30	Pink	31A31993	1
40	Green	31A31994	1
50	Red	31A31995	1
60	Yellow	31A31996	1
70	Brown	31A31997	1
80	Black	31A31998	1
100	Blue	31A31990	1
120	Gray	31A31991	1
140	Maroon	31A31992	1



Amps	Color	Pkg.	Qty.
FLN			
25	Brown	31A32000	1
30	Green	31A32001	1



Amps	Color	Pkg.	Qty.
FLS			
30	Pink	25A15024	1
40	Green	25A15025	1

(Continued on following page)

Automotive Fuses, Fuse Holders and Fuse Taps

Automotive Fuses (Continued from previous page)

Amps	Color	Pkg. Qty.
FMX		
20	Blue	25A15001 1
25	White	25A15032 1
30	Pink	25A15002 1
40	Green	25A15003 1
50	Red	25A15004 1
60	Yellow	25A15005 1

Amps	Color	Pkg. Qty.
FMX-ID™		
20	Blue	25A15031 1
30	Pink	25A15033 1
40	Green	25A15034 1
50	Red	25A15030 1
60	Yellow	25A15027 1

Amps	Color	Pkg. Qty.
FMM		
15	Gray	25A25001 1
20	Blue	25A25002 1
25	White	25A25003 1
30	Pink	25A25004 1
40	Green	25A25005 1

Amps	Color	Pkg. Qty.
Low-Profile FMX		
20	Blue	25A15006 1
25	White	25A15007 1
30	Pink	25A15008 1
40	Green	25A15009 1
50	Red	25A15010 1
60	Yellow	25A15011 1

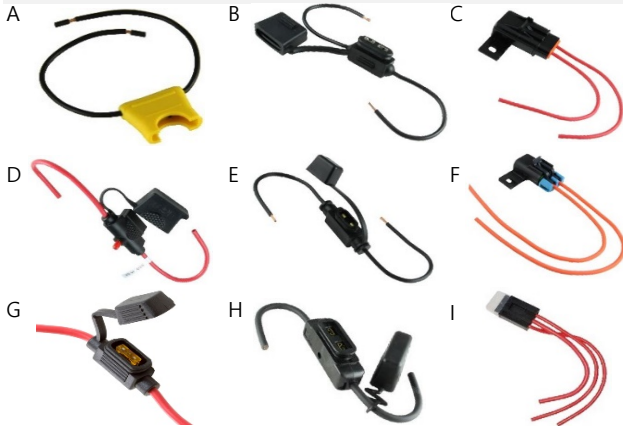
Amps	Color	Pkg. Qty.
MPF		
40,30,30	Pink	31A33372 1
40,40,40	Green	31A33373 1
50,30,30	Red	31A33374 1
50,30,40	Blue	31A33375 1
60,30,30	Yellow	31A33376 1

Amps	Color	Pkg. Qty.
MPF2		
30,20,40	Yellow	31A33365 1
40,30,30	Pink	31A33366 1
40,40,40	Green	31A33367 1
50,30,30	Red	31A33368 1
50,30,40	Blue	31A33369 1
50,30,50	Black	31A33370 1
50,50,50	Maroon	31A33371 1

Fuse Holders

Protect your precious electronics with this inline 32 volt fuse holder. The cap seals out moisture to protect the circuit from the harsh environment. Simply splice this into your wiring. Fuses/circuit breakers sold separately. Fuse holders can be purchased individually.

Inline Fuse Holders - 32 VDC



Wire Size (AWG)	Without Cap	With Cap	Mounting Bracket With Cap	LED Indicator With Cap
ATC/ATO				
16	(A)40A12001	(B)40A12002	(C)40A12011	(D)31A31394
12	(A)40A12003	(B)40A12004	(C)40A12012	(D)40A12005
Mini/ATM				
18	-----	(E)40A12018	-----	-----
16	-----	(E)40A12019	(F)66C10834	(D)31A31407
12	-----	(E)40A12020	(F)40A12013	-----
Mini/ATM Low-Profile				
18	-----	(G)66C10835	-----	-----
Maxi, 299, AF3, APX, Max				
6	-----	(H)40A12009	-----	(D)25A14016
Micro3, ATL				
14	-----	(I)40A12028*	-----	-----

* Also has a 12 gauge ground

Maxi Fuse Holder

Two screw posts allow you to connect your wire with a fork/ring terminal. Max 60 amps. Mounting hole in holder. Fuses sold separately.



Part #
40A12010

AMG Fuse Holder

Has two posts to connect your wiring to. Supports 8-2 gauge wire. 300 amps. AMG fuses sold separately.



Part #
40A12022

Water Resistant AMG Fuse Holder

Fuse holder base and cover are securely sealed to create water resistant protection. 500 amps. AMG fuses sold separately.



Part #
17A12074

ANN/ANL Fuse Holder

Commonly found on fork lifts, fuse block supports ANN and ANL fuses. 800 amps. Fuses sold separately.



Part #
40A12021

Add-A-Fuse Fuse Taps

This fuse holder allows you to replace one fuse with two fuses which allows you to protect an additional circuit. The primary circuit protects the existing circuit wired into the panel. The auxiliary fuse protects the 16 gauge wire that comes off this unit that is butt spliced (included) to another wire. The maximum combined current for both circuits is 30 amps. The maximum for the primary circuit is 25 amps and the maximum for the auxiliary circuit is 10 amps. Fuse/circuit breakers sold separately.



ATC/ATO



Mini/ATM Low-Profile



Micro3/ATL

Fuse Type	Pkg. Qty.
ATC/ATO	40A12007 1
Mini/ATM	40A12008 1
Mini/ATM Low-Profile	40A12026 1
Micro/ATR	40A12025 1
Micro3/ATL	40A12027 1

Easy-Install Inline Fuse Tap

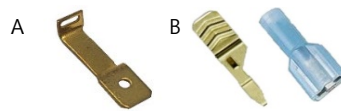


Part #40A12006

Rather than splicing, simply hand squeeze this tap onto your wire and add an ATC / ATO fuse to protect your electronics. Fuses/circuit breakers sold separately.

Add a Circuit Fuse Taps

These fuse taps fit over the fuse to create a non-fused circuit.



Fuse Type	Pkg. Qty.
(A)ATC/ATO	31A31398 25
(B)Mini/ATM	31A31413 10

Fuse Panels

Surface-Mount Fuse Panels

Commonly used to add new electronics in mobile applications, these surface-mount fuse panels are cost effective and make the installation process easy.

The **standard**, **standard with cover**, and the **LED with cover** have a common feed that provides power to all of the circuits with just one wire from battery. Maximum 60 amps per panel and maximum 30 amps per circuit.

The **compact with cover** fuse panels offer a smaller footprint. Maximum 15 amps per circuit. The maximum amps per panel are: 30 amps for 4 position, 45 amps for 6 position, 60 amps for 8 position, and 90 amps for 10 position. The compact fuse panels have a IPX4 splash-proof rating.

Fuses/circuit breakers sold separately.



Positions	ATC/ATO			Mini/ATM			Micro/ATR	Mini Low Profile/APS
	Standard	LED w/Cover	Compact w/Cover	Standard w/Cover	LED w/Cover	Compact w/Cover	Compact w/Cover	Standard w/Cover
4	31A31014	40A11018	40A11020	40A11007	40A11008	40A11024	40A11028	-----
6	40A11001	40A11002	40A11021	40A11009	40A11010	40A11025	40A11029	-----
8	40A11003	-----	40A11022	-----	-----	40A11026	40A11030	-----
10	40A11004	40A11017	40A11023	40A11011	40A11019	40A11027	40A11031	40A11013
14	40A11005	-----	-----	-----	-----	-----	-----	-----

High Amperage 2 Position Low-Profile FMX Fuse Panel

High amperage, two position fuse block. Made for high vibration rough duty applications. Waterproof. One common feed powers two fuse protected circuits. Measures 3.75" x 1.5" x 1.625". Uses FMX 20 to 60 amp fuses.

Fuses sold separately.

Description	FMX Fuse Positions	Pigtails
Power Fuse Panel	Two positions for separate circuits	40A11006
Power Relay Panel	Two positions, one protects relay and the other is a single circuit in-line fuse	31A31763



20 Position Mini/ATM Fuse Panel

For large scale electrical installations in mobile applications, these surface mount fuse panels give you space for 20 circuits. IP66 rated housing and cover provide a weather-tight enclosure for harsh environments. Measures 3.4" x 4" x 2.4", including the cover. Fuses/circuit breakers sold separately.

Preassembled pigtails for OEM mini/ATM fuse panels can be purchased in any color or wire size in 6" lengths and simply inserted into the back of the panel on the 40A11012. Any circuit not being used should be plugged with Part #12A11023/Packard #12010300 cavity plug to ensure weather proofing.

Description	Pigtails
20 Position fuse block with no cover	31A33655
20 Position fuse block with shallow cover	31A33656
20 Position fuse block with deep cover	40A11012



Preassembled Pigtails for OEM Mini/ATM Fuse Panels (RTMF-DC)

Wire Size (AWG)	Amperage	Wire Color	Length	Pigtails	Terminals Only	Tools
22	10	Any	6"	66C10260	12A13021	37A11015
18	15	Any	6"	66C10259	12A13020	37A11015
16	20	Any	6"	66C10258	12A13019	37A11015
14	25	Any	6"	66C10257	12A13018	37A11016
12	30	Any	6"	66C10256	12A13017	37A11016



Automotive Fuse Kits & All-in-One Fuse Kits

Automotive Fuse Kits

ATC/ATO Fuse Kit

ATO/ATC fuses kit includes 180 pieces. 5 different sizes in a 7" x 3 3/4" plastic box.



Part #
25A11014

Kit Contains	Description	Qty.
25A11001	1 Amp Black ATC/ATO Fuses	15
25A11002	2 Amp Gray ATC/ATO Fuses	15
25A11003	3 Amp Violet ATC/ATO Fuses	15
25A11005	5 Amp Tan ATC/ATO Fuses	15
25A11006	7.5 Amp Brown ATC/ATO Fuses	15
25A11007	10 Amp Red ATC/ATO Fuses	15
25A11008	15 Amp Blue ATC/ATO Fuses	15
25A11009	20 Amp Yellow ATC/ATO Fuses	15
25A11010	25 Amp Clear ATC/ATO Fuses	15
25A11011	30 Amp Green ATC/ATO Fuses	15
25A11013	40 Amp Amber ATC/ATO Fuses	15
66C10452	Adapter	15

Micro Fuse Kit

Space-saving micro-fuse link kit includes 136 pieces total. 16 different sizes, and a fuse puller in a plastic box.



Part #
25A23005

Kit Contains	Description	Qty.
25A24001	5 Amp Tan ATR Fuses	10
25A24002	7.5 Amp Brown ATR Fuses	10
25A24003	10 Amp Red ATR Fuses	10
25A24004	15 Amp Blue ATR Fuses	10
25A24005	20 Amp Yellow ATR Fuses	10
25A24006	25 Amp Clear ATR Fuses	10
25A24007	30 Amp Green ATR Fuses	10
25A24008	5 Amp Tan ATL Fuses	10
25A24009	7.5 Amp Brown ATL Fuses	10
25A24010	10 Amp Red ATL Fuses	10
25A24011	15 Amp Blue ATL Fuses	10
25A25001	15 Amp Gray FMM Fuses	5
25A25002	20 Amp Blue FMM Fuses	5
25A25003	25 Amp White FMM Fuses	5
25A25004	30 Amp Pink FMM Fuses	5
25A25005	40 Amp Green FMM Fuses	5

Fuse Link Kit

Fuse link kit includes 24 pieces total. 13 different sizes in a 11" x 6 3/4" x 1 3/4" plastic box.



Part #
25A23001

Kit Contains	Description	Qty.
25A15019	20 Amp Blue FLF Fuses	2
25A15001	20 Amp Blue FMX Fuses	2
25A15020	30 Amp Pink FLF Fuses	2
25A15024	30 Amp Pink FLS Fuses	2
25A15002	30 Amp Pink FMX Fuses	2
25A15021	40 Amp Green FLF Fuses	2
25A15025	40 Amp Green FLS Fuses	2
25A15003	40 Amp Green FMX Fuses	2
25A15022	50 Amp Red FLF Fuses	2
25A15004	50 Amp Red FMX Fuses	2
25A15023	60 Amp Yellow FLF Fuses	2
25A15017	80 Amp Black FLB Fuses	1
25A15018	100 Amp Blue FLB Fuses	1

Mini Low-Profile Fuse Kit

Mini Low-Profile fuse kit includes 50 fuses. 10 different sizes in a 7" x 3 3/4" plastic box.



Part #
25A23003

Kit Contains	Description	Qty.
25A13001	2 Amp Gray/APS Fuse	5
25A13002	3 Amp Violet/APS Fuse	5
25A13003	4 Amp Pink/APS Fuse	5
25A13004	5 Amp Tan/APS Fuse	5
25A13005	7.5 Amp Brown/APS Fuse	5
25A13006	10 Amp Red/APS Fuse	5
25A13007	15 Amp Blue/APS Fuse	5
25A13008	20 Amp Yellow/APS Fuse	5
25A13009	25 Amp Clear/APS Fuse	5
25A13010	30 Amp Green/APS Fuse	5

Maxi Fuse Kit

Maxi fuse kit includes 25 pieces. 5 different sizes in a 7" x 3 3/4" plastic box.



Part #
25A23002

Kit Contains	Description	Qty.
25A14001	20 Amp Yellow Maxi Fuses	5
25A14002	30 Amp Green Maxi Fuses	5
25A14003	40 Amp Orange Maxi Fuses	5
25A14004	50 Amp Red Maxi Fuses	5
25A14005	60 Amp Blue Maxi Fuses	5

Mini-ATM Fuse Kit

Mini-ATM fuse kit includes 80 pieces. 7 different sizes in a 7" x 3 3/4" plastic box.



Part #
25A23004

Kit Contains	Description	Qty.
25A12002	3 Amp Violet Mini/ATM Fuses	10
25A12004	5 Amp Tan Mini/ATM Fuses	10
25A12006	10 Amp Red Mini/ATM Fuses	10
25A12007	15 Amp Blue Mini/ATM Fuses	10
25A12008	20 Amp Yellow Mini/ATM Fuses	10
25A12009	25 Amp Clear Mini/ATM Fuses	10
25A12010	30 Amp Green Mini/ATM Fuses	10
66C10453	Fuse Tape for Mini Blade Fuses	10

All-in-One Automotive Fuse Kits



25A23006



25A23007

These automotive fuse kits come with a caddy that easily allows you to access all of the most common fuses you may need in one single carrier. The caddies have secure latches and clear trays for easy identification.

25A23006 includes the five trays in the first column.

25A23007 includes all 10 trays in both columns.

ATC/ATO Fuse Tray - Included in #25A23006 & #25A23007

Contains: ATO-3, 4, 5, 7-1/2, 10, 15, 20, 25, 30, 35, & 40.

Mini-ATM Fuse Tray - Included in #25A23006 & #25A23007

Contains: Mini ATM-2, 3, 4, 5, 7-1/2, 10, 15, 20, 25, & 30.

Mini Low-Profile Fuse Tray - Included in #25A23006 & #25A23007

Contains: Low-Profile APS-2, 3, 4, 5, 7-1/2, 10, 15, 20, 25, & 30.

Maxi Fuse Tray - Included in #25A23006 & #25A23007

Contains: Maxi ATO-20, 30, 40, 50, 60, 70, 80, & 100.

FMX Fuse Tray - Included in #25A23006 & #25A23007

Contains: Maxi FMX-20, 30, 40, 50, & 60.

FLF and FLS Fuse Tray - Included in #25A23007

Contains: FLF-20, 30, 40, 50, & 60. Mini FLS-30, & 40.

FMM & FMX Low-Profile Fuse Tray - Included in #25A23007

Contains: FMM-15, 20, 25, 30, & 40. Low-Profile FMX-20, 25, 30, 40, 50, & 60.

Micro Fuse Tray - Included in #25A23007

Contains: Micro ATR-5, 7.5, 10, 15, 20, 25, & 30. 3-Leg ATL-5, 7.5, 10, & 15.

FLB, FLD, and FLM Fuse Tray - Included in #25A23007

Contains: Bolt-Mount FLB-80, 140. FLD-40 & 80. FLM-30, 60, 80, 100, & 120.

AMG and AMI Fuse Tray - Included in #25A23007

Contains: Stud-Mount AMG-80, 100, 125, 150, 175, 200, 225, 250, & 300. AMI-40, 50, & 80.

High Amp Circuit Breakers

These circuit breakers offer high amperage protection. Also can be used as an on/off switch. The **surface mount** circuit breakers are waterproof.

The **extra lug clearance** circuit breakers offer extra clearance between the stud and body.

These type III circuit breakers reset with a push of a button. Sold individually.

Surface Mount



Amps	Volts	Standard		Extra Lug Clearance	
		Volts	Stud Size	Volts	Stud Size
25	6-42	1/4-28	26A33010	6-48	M6 (1/4") 26A33117
30	6-42	1/4-28	26A33011	6-48	M6 (1/4") 26A33118
35	6-42	1/4-28	26A33012	6-48	M6 (1/4") 26A33119
40	6-42	1/4-28	26A33013	6-48	M6 (1/4") 26A33120
50	6-42	1/4-28	26A33001	6-48	M6 (1/4") 26A33121
60	6-42	1/4-28	26A33014	6-48	M6 (1/4") 26A33122
70	6-42	1/4-28	26A33002	6-48	M6 (1/4") 26A33123
80	6-42	1/4-28	26A33003	6-48	M6 (1/4") 26A33124
90	6-42	1/4-28	26A33015	6-48	M6 (1/4") 26A33125
100	6-42	1/4-28	26A33004	6-48	M6 (1/4") 26A33126
110	6-42	1/4-28	26A33016	6-48	M6 (1/4") 26A33127
120	6-42	1/4-28	26A33005	6-48	M6 (1/4") 26A33128
135	6-42	1/4-28	26A33006	6-48	M6 (1/4") 26A33129
150	6-42	1/4-28	26A33007	6-48	M6 (1/4") 26A33130
180	6-42	3/8-16	26A33009	-----	-----
200	6-42	3/8-16	26A33008	-----	-----
250	6-42	3/8-16	26A33017	-----	-----

Panel Mount



Amps	Volts	Standard		Commercial	
		Volts	Stud Size	Volts	Stud Size
25	6-42	1/4-28	31A31604	6-48	M6 (1/4") 31A31685
30	6-42	1/4-28	31A31605	6-48	M6 (1/4") 31A31686
35	6-42	1/4-28	31A31606	6-48	M6 (1/4") 31A31687
40	6-42	1/4-28	31A31607	6-48	M6 (1/4") 31A31688
50	6-42	1/4-28	31A31608	6-48	M6 (1/4") 31A31689
60	6-42	1/4-28	31A31610	6-48	M6 (1/4") 31A31690
70	6-42	1/4-28	31A31611	6-48	M6 (1/4") 31A31691
80	6-42	1/4-28	31A31612	6-48	M6 (1/4") 31A31692
90	6-42	1/4-28	31A31613	6-48	M6 (1/4") 31A31693
100	6-42	1/4-28	31A31599	6-48	M6 (1/4") 31A31680
110	6-42	1/4-28	31A31600	6-48	M6 (1/4") 31A31681
120	6-42	1/4-28	31A31601	6-48	M6 (1/4") 31A31682
135	6-42	1/4-28	31A31602	6-48	M6 (1/4") 31A31683
150	6-42	1/4-28	31A31603	6-48	M6 (1/4") 31A31684

Corrosive Environment Circuit Breakers

Created for the marine industry, the corrosive-environment circuit breakers offer low voltage and high amperage protection in the most demanding environments. Weatherproof.

These type III circuit breakers reset with a push of a button. Sold individually.

Surface Mount



Amps	Volts	Stud Size	
25	6-48	5/16-18	26A34001
30	6-48	5/16-18	26A34002
35	6-48	5/16-18	26A34003
40	6-48	5/16-18	26A34004
50	6-48	5/16-18	26A34005
60	6-48	5/16-18	26A34006
70	6-48	5/16-18	26A34007
80	6-48	5/16-18	26A34008
-----	-----	-----	-----
100	6-48	5/16-18	26A34010
110	6-48	5/16-18	26A34011
120	6-48	5/16-18	26A34012
135	6-48	5/16-18	26A34013
150	6-48	5/16-18	26A34014
200	6-48	5/16-18	31A31614

Panel Mount



Amps	Volts	Stud Size	
25	6-48	5/16-18	26A35001
30	6-48	5/16-18	26A35002
35	6-48	5/16-18	26A35003
40	6-48	5/16-18	26A35004
50	6-48	5/16-18	26A35005
60	6-48	5/16-18	26A35006
70	6-48	5/16-18	26A35007
80	6-48	5/16-18	26A35008
90	6-48	5/16-18	26A35009
100	6-48	5/16-18	26A35010
110	6-48	5/16-18	26A35011
120	6-48	5/16-18	26A35012
135	6-48	5/16-18	26A35013
150	6-48	5/16-18	26A35014
200	6-48	5/16-18	31A31615

Circuit Breakers

Automotive Circuit Breakers

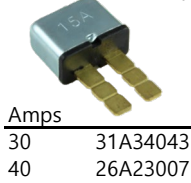
ATC/ATO

The metallic (silver) circuit breakers are suitable replacements for ATO, ATC, AF, 257, and APR circuit breakers and fuses. The type II and type III circuit breakers are thin, allowing them to fit in tighter spaces. Sold individually.

Auto-Reset

These type I circuit breakers will automatically reset after overload. 6-12 volts.

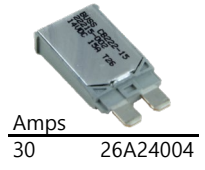
Amps		Amps	
6	31A34044	15	31A34040
8	26A23001	20	31A34041
10	31A34039	25	31A34042



Power-Off Reset Ultra Thin

These type II circuit breakers will reset after power is turned off and back on. 12 volts.

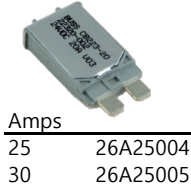
Amps		Amps	
10	26A24001	20	26A24003
15	26A24002	25	31A31635



Manual-Reset Ultra Thin

These type III circuit breakers reset with a push of a button. 12-24 volts.

Amps		Amps	
7.5	26A25001	15	26A25002
10	26A25006	20	26A25003



Low-Profile Manual-Reset

These type III circuit breakers reset with a push of a button. 12-24 volts.

Amps	Color		Amps	Color	
5	Tan	26A26001	15	Blue	26A26005
6	Green	26A26002	20	Yellow	26A26006
7.5	Brown	31A31649	25	White	26A26007
10	Red	26A26004	30	Green	26A26008



Mini/ATM

The gold **auto-reset**, type I and **manual-reset**, type III circuit breakers are suitable replacements for Mini, ATM, AF2, 297, and APM circuit breakers and fuses. Sold individually.

Auto-Reset

The type I circuit breakers will automatically reset after overload. 12 volts.

Amps		Amps	
7.5	31A31623	20	26A27003
10	26A27001	25	26A27004
15	26A27002	30	26A27005



Manual-Reset

The type III circuit breakers reset with a push of a button. 12-24 volts.

Amps	Color		Amps	Color	
5	Tan	26A28001	20	Yellow	26A28004
7.5	Brown	66C10225	25	White	26A28005
10	Red	26A28002	30	Green	26A28006
15	Blue	26A28003			



Mini Low-Profile Manual-Reset Ultra Thin

The mini low-profile manual-reset, type III are suitable replacements for Mini Low-Profile, APS, and ATT circuit breakers and fuses. Reset with a push of a button. 12-48 volts. Sold individually.

Amps	Color	
5	Tan	26A29001
7.5	Brown	26A29002
10	Red	26A29003
15	Blue	26A29004



Maxi

These metallic (silver) circuit breakers are suitable replacements for Maxi, Max, AF3, 299, and APX circuit breakers and fuses. 12 volts. Sold individually. The **auto-reset**, type I circuit breakers will automatically reset after overload. The **power-off reset**, type II circuit breakers will reset after power is turned off and back on.



Auto-Reset			
Amps		Amps	
10	31A31616	25	31A31618
15	31A31617	30	26A30002
20	26A30001	35	31A31619

Power-Off Reset			
Amps		Amps	
10	31A31620	25	31A31621
15	26A31001	30	26A31003
20	26A31002		

Mack Plug In



Blades are 1" apart to fit Mack breaker format. These type II circuit breakers will reset after power is turned off and back on. 6-12 volts. Sold individually.

Amps		Amps	
10	26A40001	25	31A31621
15	26A40002	30	26A31003
20	26A40003		

Circuit Breakers to Replace 1/4"X1-1/4" Glass Fuses



These circuit breakers are suitable replacements for 1/4" X 1-1/4" AGC, MDL, GDL, GGC, 312, and 313 glass fuses. These type II circuit breakers will reset after power is turned off and back on. 6-12 volts. Sold Individually.

Amps		Amps	
6	31A31749	25	31A31745
10	31A31742	30	31A31746
15	31A31743	35	31A31747
20	31A31744	40	31A31748

Low-Profile Circuit Breakers to Replace 1/4"X1-1/4" Glass Fuses



The 6-12 volt circuit breakers are suitable replacements for 1/4" X 1-1/4" AGC, MDL, GDL, GGC, 312, and 313 glass fuses. The low profile allows them to fit in tight spaces. These type II circuit breakers will reset after power is turned off and back on. Sold Individually.

Amps		Amps	
10	26A32005	25	26A32008
15	26A32006	30	26A32009
20	26A32007	40	26A32010

(Continued on following page)

Mount for Stud Style Circuit Breakers



These mounts allow you to easily mount stud style circuit breakers (26A36001 thru 26A36007). Mounts two circuit breakers with the studs up (turtle). Sold Individually.

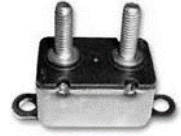
Number of Circuits It Will Hold	Manufacturer	
2	Cole Hersee	26A36008
2	Pollak	26A36009
8	Cole Hersee	26A36010
8	Pollak	26A36011

Automotive Circuit Breakers (Continued from previous page)

Stud Style

These metallic (silver) stud style circuit breakers allow you to easily attach your wire to these circuit breakers. **Standard** body measures 1.3" lg. X 0.8" wd. X 0.6" ht. and has two 10-32 threaded studs. **Narrow-profile** body measures 1.1" lg. X 0.4" wd. X 0.6" ht. and has two 10-32 threaded studs. The narrow profile allows you to fit more in tight spaces. These type I circuit breakers will automatically reset after overload. Sold individually.

Metal Housings



Amps	No Bracket				Crosswise Bracket			Lengthwise Bracket	
	Standard	Economy	Cole Hersee	Cole Hersee/Sealed	Standard	Economy	Cole Hersee	Standard	Cole Hersee
6-12 Volts									
8	31A31737	-----	-----	-----	31A31738	-----	-----	-----	-----
10	31A31712	26A36001	17A12399	-----	31A31713	26A37001	17A12396	31A31714	17A12395
15	31A31715	26A36002	17A12410	17A12403	31A31716	26A37002	17A12406	31A31717	17A12405
20	31A31718	26A36003	17A12426	17A12419	31A31719	26A37003	17A12422	31A31721	17A12421
25	31A31722	26A36004	17A12435	-----	31A31723	-----	-----	31A31724	66C10537
30	31A31725	26A36005	17A12445	17A12438	31A31726	26A37004	17A12441	31A31728	17A12047
35	31A31729	-----	-----	-----	31A31730	-----	-----	-----	-----
40	31A31731	26A36006	17A12457	-----	31A31732	26A37005	17A12453	31A31733	17A12452
50	31A31734	26A36007	17A12465	-----	31A31735	26A37006	-----	31A31736	17A12055
24 Volts									
10	-----	-----	17A12401	-----	-----	-----	-----	-----	-----
15	-----	-----	17A12416	-----	-----	-----	-----	-----	17A12414
20	-----	-----	17A12432	-----	-----	-----	-----	-----	17A12430
30	-----	-----	-----	-----	-----	-----	-----	-----	17A12450

Non-Corrosive Plastic Housings



Amps	Crosswise Bracket		Lengthwise Bracket	
	Standard	Economy	Standard	Economy
15	31A31751	-----	31A31750	-----
20	31A31753	-----	31A31752	-----
25	31A31755	-----	31A31754	-----
30	31A31757	-----	31A31756	-----
35	-----	-----	31A31758	-----
40	31A31760	-----	31A31759	-----
50	31A31762	-----	31A31761	-----

Narrow Profile Metal Housings



Amps	Narrow-No Bracket		Narrow-With Bracket	
	Standard	Economy	Standard	Economy
6	31A31770	-----	-----	-----
10	31A31764	26A38001	26A39001	-----
15	31A31765	26A38002	26A39002	-----
20	31A31766	26A38003	26A39003	-----
25	31A31767	26A38004	26A39004	-----
30	31A31768	26A38005	26A39005	-----
40	31A31769	26A38006	26A39006	-----

Insulated Stud Style with Lead Wires

These stud style circuit breakers have a PVC coated body and leads, for weather protection. Has 10" wire loop and that you cut, strip and splice into a circuit. These type I circuit breakers will automatically reset after overload.



Lengthwise Bracket

Amps	Wire Lead Gauge	
20	15	17A12371
30	13	17A12379






















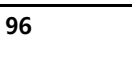

No Bracket, Snap-In

Amps	Wire Lead Gauge	
10	17	17A12365
20	15	17A12372
30	13	17A12380

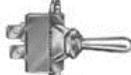









Switches

Low Voltage Automotive Switches (We stock Cole Hersee and Pollak)

SPST On/Off

	Amps	Volts	Terminals	Mounting Hole	Switch Type	Mfg.	Mfg. #	Features	
	15	12	Screw (2)	1/2"	Toggle	-----	-----	Indicator Plate	66C10224
	50	12	Screw (2)	1/2"	Toggle	-----	-----	Indicator Plate	66C10226
	50	12	Blade (2)	1/2"	Toggle	-----	-----	Indicator Plate	66C10237
	15	12	Screw (2)	1/2"	Push/Pull	-----	-----	Ivory Knob	66C10199
	75	6-28	Screw (2)	5/8"	Push/Pull	-----	-----	High Amperage	66C11913
	10	12	12" Leads	5/8"	Push/Pull	-----	-----	PVC Coating	17A12004
	25	12	Screw (2)	15/32"	Toggle	Cole Hersee	5520	"O" Ring Seal in Stem	17A12051
	25	12	Screw (2)	15/32"	Toggle	Cole Hersee	5582		66C10565
	20	12	Screw (2)	15/32"	Toggle	Pollak	34-571P		66C11343
	25	12	Blade (2)	15/32"	Toggle	Cole Hersee	55014-05	"O" Ring Seal in Stem, Weatherproof	66C11914
	25	12	Blade (2)	15/32"	Toggle	Cole Hersee	55014		66C10544
	20	12	Blade (2)	15/32"	Toggle	Pollak	34-571QP		66C11344
	25	12	Blade (3)	1.45" x .83"	Rocker	Cole Hersee	58328-04	Red Pilot Light	66C10573
	25	12	8" Leads	15/32"	Toggle	Cole Hersee	5582-10	Plasticized Housing, Weatherproof "O" Ring Seal in Stem	66C10566
	20	12	8" Leads	15/32"	Toggle	Pollak	34-571C	Plasticized Housing, with 8" Coated Leads	66C11915
	20	12	Blade (3)	1/2"	Toggle	-----	-----	Amber Pilot Light in Handle	66C10213
	20	12	Blade (3)	1/2"	Toggle	-----	-----	Red Pilot Light in Handle	66C10214
	20	12	Blade (2)	1/2"	Rocker	-----	-----	Red Pilot Light	66C10215
	20	12	Blade (3)	1/2" x 1"	Rocker	-----	-----	Amber Pilot Light	66C11426
	20	12	Blade (3)	1/2" x 1"	Rocker	-----	-----	Blue Pilot Light	66C11427
	20	12	Blade (3)	1/2" x 1"	Rocker	-----	-----	Green Pilot Light	66C11428
	20	12	Blade (3)	1/2" x 1"	Rocker	-----	-----	Red Pilot Light	66C11429
	-----	-----	-----	-----	-----	-----	-----	Easy Snap-On Housing, Surface Mounting	66C11248

SPST Momentary

	Amps	Volts	Terminals	Mounting Hole	Switch Type	Mfg.	Mfg. #	Features	
	20	6-12	Blade (2)	15/32"	Toggle	-----	-----	Momentary On/Off, Heavy duty	66C10560
	10	12	Screw (2)	5/8"	Push Button	-----	-----	On/Momentary Off, Weather Proof, Sealed Case, "O" Ring Seal in Stem,	66C10586
	10	12	Screw (2)	5/8"	Push Button	-----	-----	Identical to Above, Plus Sealed and Silver Contacts, Plasticized	66C10587
	50	12		5/8"	Push Button	-----	-----	Off/Momentary On, Plastic Push Button, Rubber Cap	66C10337
	25	12	Screw (2)	15/32"	Toggle	Cole Hersee	55020	Off/Momentary On, "O" Ring in Stem	66C10550
	20	12	Screw (2)	15/32"	Toggle	Pollak	34-570P	Off/Momentary On, Extra Heavy Duty	66C11341
	25	12	8"Wires (2)	15/32"	Toggle	Cole Hersee	55020-04	Off/Momentary On, Extra Heavy Duty Weather Sealed "O" Ring in Stem, All Dipped in PVC Coating	66C10551
	35	12	Screw (2)	5/8"	Push Button	Cole Hersee	90030	Off/Momentary On, Weather Resistant, Plastic Push Button, Rubber Cap	17A12066
	35	12	Screw (2)	5/8"	Push Button	Cole Hersee	M-626-02	Off/Momentary On, Marine Construction, Plastic Push Button, Rubber Cap	66C10598
	70	12	Screw (2)	5/8"	Push Button	Cole Hersee	24-360P	Off/Momentary On, Weather Resistant, Plastic Push Button, Rubber Cap	66C11339

(Continued on following page)

Low Voltage Automotive Switches (Continued from previous page)

(We stock **Cole Hersee** and **Pollak**)

SPDT Single Power Source to One of Two Circuits

Amps	Volts	Terminals	Mtg. Hole	Switch Type	Mfg.	Mfg. #	Features	
50	12	Screw (3)	1/2"	Toggle	-----	-----	On/Off/On, Chrome Handle, Silver Contacts	66C10228
50	12	Screw (3)	1/2"	Toggle	-----	-----	Momentary On/Off/Momentary On, Chrome Handle, Silver Contacts	66C10229
25	12	Screw (3)	15/32"	Toggle	Cole Hersee	5584	On/On, Chrome Button/Face Nut	66C10567
20	12	Screw (3)	15/32"	Toggle	Pollak	34-572P	On/On, Chrome Button/Face Nut	66C11345
25	12	Blade (3)	15/32"	Toggle	Cole Hersee	55016	On/Off/On, Extra Heavy Duty	66C10546
20	12	Blade (3)	15/32"	Toggle	Pollak	34-573QP	On/Off/On, Extra Heavy Duty	66C11347
25	12	Blade (3)	15/32"	Toggle	Cole Hersee	55015	On/On, Chrome Button/Face Nut	66C10545
20	12	Blade (3)	15/32"	Toggle	Pollak	34-572QP	On/On, Chrome Button/Face Nut	66C11346
30	6-12	Screw (3)	15/32"	Toggle	Cole Hersee	551842	On/Off/On, Extra Heavy Duty Silver Contacts, Die Cast Housing	66C10562
25	12	Blade (4)	1.45" x 0.83	Rocker	Cole Hersee	58327-06	On/Off/On, 2 Red Dual Pilot Lights Weather Resistant, Silver Contacts, Brass Blade Terminals	66C10572



SPDT Momentary

Amps	Volts	Terminals	Mtg. Hole	Switch Type	Mfg.	Mfg. #	Features	
25	12	Screw (3)	15/32"	Toggle	Cole Hersee	55088	On/Off/Momentary On,	66C10559
25	12	Blade (3)	15/32"	Toggle	Cole Hersee	55033-01	Momentary On/Off/Momentary On, Silver Contacts, Face Nut	66C10554
20	12	Blade (3)	15/32"	Toggle	Pollak	34-575QP	Momentary On/Off/Momentary On, Face Nut	66C11350
25	12	Screw (3)	15/32"	Toggle	Cole Hersee	55021-04	Momentary On/Off/Momentary On, Face Nut, "O" Ring Seal in Stem	66C10552
25	12	8"Wires (2)	15/32"	Toggle	Cole Hersee	55021-07	Momentary On/Off/Momentary On, Face Nut, "O" Ring Seal in Stem, 8" Leads, All Dipped in PVC Coating	66C10553



DPST Two Separate Circuits Turned On/Off at One Time

Amps	Volts	Terminals	Mtg. Hole	Switch Type	Mfg.	Mfg. #	Features	
25	12	Screw (4)	15/32"	Toggle	Cole Hersee	5588	On/Off, Heavy Duty, Silver Contacts	66C10568
20	12	Screw (4)	15/32"	Toggle	Pollak	34-574P	On/Off, Heavy Duty, Silver Contacts	66C11348
25	12	Blade (4)	15/32"	Toggle	Cole Hersee	55017	On/Off, Heavy Duty, Silver Contacts	66C10547
20	12	Blade (4)	15/32"	Toggle	Pollak	34-574QP	On/Off, Heavy Duty, Silver Contacts	66C11349



DPDT Two Power Sources Used to Power One of Two Pairs of Circuits

Amps	Volts	Terminals	Mtg. Hole	Switch Type	Mfg.	Mfg. #	Features	
25	12	Screw (6)	15/32"	Toggle	Cole Hersee	5590	On/On	66C10569
25	12	Blade (6)	15/32"	Toggle	Cole Hersee	55018	On/On	66C10548
20	12	Blade (6)	15/32"	Toggle	Pollak	34-576QP	On/On	66C11351
25	12	Screw (6)	15/32"	Toggle	Cole Hersee	5592	On/Off/On	66C10570
20	12	Screw (6)	15/32"	Toggle	Pollak	34-577P	On/Off/On	66C11352
25	12	Blade (6)	15/32"	Toggle	Cole Hersee	55019	On/Off/On	66C10549
20	12	Blade (6)	15/32"	Toggle	Pollak	34-577QP	On/Off/On	66C11353
25	12	Blade (6)	15/32"	Toggle	Cole Hersee	55057	On/Off/On, Long Handle	66C10556



DPDT Momentary

Amps	Volts	Terminals	Mtg. Hole	Switch Type	Mfg.	Mfg. #	Features	
25	12	Screw (6)	15/32"	Toggle	Cole Hersee	55054	Momentary On/Off/Momentary On	66C10555
20	12	Screw (6)	15/32"	Toggle	Pollak	34-580P	Momentary On/Off/Momentary On	66C11354
25	12	Blade (6)	15/32"	Toggle	Cole Hersee	55065-03	Momentary On/Off/Momentary On	66C10558
20	12	Blade (6)	15/32"	Toggle	Pollak	34-580QP	Momentary On/Off/Momentary On	66C11355



Pigtails






Terminals				
Pigtail to Fit #66C10580	-----			66C10538





Switches & Solenoids

Solenoids, 12 Volt (We stock Cole Hersee and Pollak)


Continuous Duty - SPST, Normally Open, One Circuit: Off/On

Amps	Volts	Bracket Mounting Holes	Mfg. & Mfg. #	Features	
 85	12	5/16" x 19/32" on 2 13/64" Center	Cole Hersee #24059	Studs have copper 5/16"-24 threads. Coil, ignition, and ground terminals have steel 10-32 threads	17A12010
85	12	5/16" x 19/32" on 2 13/64" Center	Cole Hersee #24213	Studs have copper 5/16"-24 threads. Coil, ignition, and ground terminals have steel 10-32 threads	17A12011
85	12	5/16" x 19/32" on 2 13/64" Center	Cole Hersee #24063	Studs have copper 5/16"-24 threads. Coil, ignition, and ground terminals have steel 10-32 threads	17A12070
 85	12	5/16" x 19/32" on 2 13/64" Center	Cole Hersee #24115	Large studs have copper 5/16"-24 threads. Coil, ignition, and ground terminals have steel 10-32 threads.	66C10533
 85	12	Curved Bracket, 5/16" x 19/32" on 2 13/64" Center	Cole Hersee #24082	Studs have copper 5/16"-24 threads. Coil, ignition, and ground terminals have steel 10-32 threads.	66C10531
 110	12	5/16" x 19/32" on 2 13/64" Center	Cole Hersee #24200	Use as heavy current remote battery isolator. Very little heat due to coil de-energizing.	17A12007
 225	12	5/16" x 19/32" on 2 13/64" Center	Cole Hersee #24812	Large studs have copper 5/16"-24 threads. Heavy duty.	17A12040








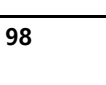

Continuous Duty - DPST, Normally Open Contacts

 85	12	5/16" x 19/32" on 2 13/64" Center	Cole Hersee #24401	Studs have copper 5/16"-24 threads. Coil, ignition, and ground terminals have steel 10-32 threads	66C10535
 85	12	5/16" x 19/32" on 2 13/64" Center	Cole Hersee #24106	Studs have copper 5/16"-24 threads. Coil, ignition, and ground terminals have steel 10-32 threads. Grounded	17A12001

Intermittent Duty - SPST, One Circuit: Off/On

 750/100	12	5/16" x 19/32" on 2 13/64" Center	Cole Hersee #24022	Contacts and terminals are copper. Small ignition and ground terminals have 10-32 Threads. Large terminals have 5/16"-24 threads. Phenolic/Plated Steel Housing.	66C10528
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Miscellaneous Switches


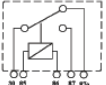


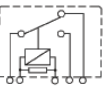


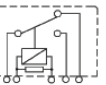


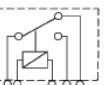








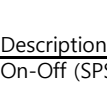

Amps	Volts	Terminals	Mounting Hole	Mfg. & Mfg. #	Switch Type	Features	
 15	12	Screw (4)	1/2" - 20, 1.25" Long	Cole Hersee #90005-01	Rotary	Silver Contacts, Spring Return to Off from Both Directions, Plated Steel Case	66C10588
				Cole Hersee #81264		Rubber Boot for Toggle Switch with Brass Nut, O-Ring Seal on Nut, Covers Toggle for 15/32"-32 Thread	17A12003
				Pollak #25-370P		Rubber Boot for Toggle Switch with Brass Nut, O-Ring Seal on Nut, Covers Toggle for 15/32"-32 Thread	66C11340
 5	12		0.800-0.850" Diameter	Cole Hersee #9075	Plunger	Compact Push-Button Switch for Momentary Grounding, Normally On/ Push to Momentary Off/Spring to On, Molded Plastic, Plunger 9/16" Long	66C10591
 5	12		45/64" Body Diameter	Cole Hersee #9087	Plunger	Momentary Door Switch, Off With Plunger Depressed/Spring to On, With Faceplate, Plated Steel Case, Plunger 7/16"	66C10592
 5	12		Mounting Center 2 1/16"		Push Button	Fog Horn and Siren Switch, Momentary On/Off, Surface Mount Only, 1 5/8" Diameter	
 20	12	Screw (2)	3/4" Diameter	Cole Hersee #2484	Rotary	Master Disconnect Switch, On/Off, Copper Contacts, Plated Steel Case	17A12008
 20	12	Screw (2)	3/4" Diameter	Cole Hersee #2484-16	Rotary	Master Disconnect Switch, On/Off, Silver Contacts, Plated Steel Case	17A12025
 20	12	Screw (2)	3/4" Diameter	Cole Hersee #M-284	Rotary	Master Disconnect Switch, On/Off, Silver Laminated Contacts, Plated Steel Case	66C10595
 10	12-24			Cole Hersee #95060-03	Ignition	3 Position Key Switch, Off/Ign-Acc/Start Removal Key with Boot	17A12026
10	12-48			Cole Hersee #95060-23	Ignition	4 Position Key Switch, Acc/Off/Ign-Acc/Start Spring Return to Off, Removal Key with Boot	17A12029

Relays, Switch Kit, Flashlights & Batteries

Relays

Automotive relays are switches that use electrical current rather than a mechanical switch, to open and close circuits. Five 1/4" tabs mate with sockets or relay blocks. Max inrush current of 150 amps.

SPDT (Single Pole Double Throw)

Volts	Amps	Part #	Descriptions	Part #			
12	40	87401		66C11420			
24	20	87115	Resistor, High Temperature	66C10246			
12	40	87423	Resistor	66C11422			
12	50	87429	Potted with Resistor	66C11424			
12	30	49400	Resistor, Mounting Bracket	66C11421			
12	40	87420	Resistor, Mounting Bracket	66C11423			
12	20/40	87499	Mounting Bracket	66C10332			

Relay Block



Description

Mini 5 Terminal Harness Connector with Lock, Interlocking Bodies Can Be Put in Series, Fits All Relays Here

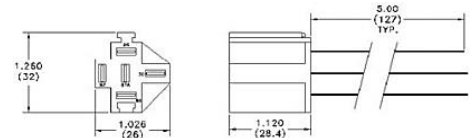
Relay Block Terminals

Wire Size (AWG)	Part #	Pkg. Qty.
22-18	12015869	12A15030
16-14	12015870	12A15031
12-10	12084590	12A15033



Prewired Relay Sockets

Description	Part #	Pkg. Qty.
Fits All Relays Above, 5" Leads	66C11389	1
2 14 Gauge (coil) Wires: (1) Blue and (1) Yellow		
3 12 Gauge (Contact) Wires: (1) White, (1) Black and (1) Red		



Switch Kit

Part #	Description	Qty.	(Cont.)	Description	Qty.
66C11913	On-Off (SPST) Push/Pull	3	66C10214	On-Off (SPST) Toggle Pilot Light	5
66C10224	On-Off (SPST) Toggle	5	66C10213	On-Off (SPST) Toggle Pilot Light	5
66C10226	On-Off (SPST) Toggle	3	66C11429	On-Off (SPST) Rocker Pilot Light	5
66C10228	On-Off-On (SPDT) Toggle	3	66C11426	On-Off (SPST) Rocker Pilot Light	5
66C10229	Mom On-Off-Mom On (SPDT) Toggle	3	66C11248	Housing	10
66C10337	Off-Mom On (SPST) Push Button	3	66C10199	On-Off (SPST) Push/Pull	3
66C10215	Red On-Off (SPST) Rocker Pilot Light	3			

This kit contains 11 different switches, a total of 56 pieces. It also includes a snap-on housing. Comes in a large metal box, 18" w x 12" d x 3" h.



Warning Light and Buzzer

This universal warning light and buzzer can be used with any electrical switch. Red lens and long-life LED bulb. 11/16" diameter mounting stem, 17/32" long.

Volts	Size	Mfg.	Mfg. #	Part #	Pkg. Qty.
12	1 7/8" L x 1" W x 1 11/32" H	Cole Hersee	4112-RC000	17A12061	1



Flashlights

LED Flashlights - 2 D Batteries

This LED flashlight is 10 times brighter than our incandescent flashlight and has an indestructible bulb. The batteries also last four times longer than with a standard incandescent bulb. Buy 96 and have your information imprinted on the flashlights free.

Color	Feature	Part #
Yellow Body with Black Trim	Magnetic Base	66C20312



Mini LED Flashlights - 3 AAA Batteries

Body color	LEDs	Features	Part #
Black	14		66C10841
Silver	32		66C10844
Black	10	Laser Pointer	66C10840



Upgrade-to-LED Flashlight Bulbs

Converts any standard flashlight to a LED flashlight with this LED bulb. The LED bulb will make your flashlight 10 times as bright and last 5 times longer. They are shock and vibration resistant. 2-3 VDC.

Description	Part #
LED bulbs for standard flashlights	24A13037



Incandescent Flashlights - 2 D Batteries

Trim color	Features	Part #
Blue Trim	Magnetic Base	66C10847
Black Trim	Spare Bulb in Holder	66C10849



Duracell Batteries

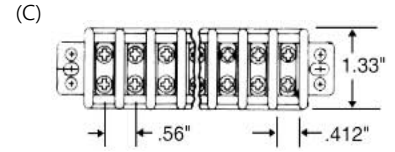
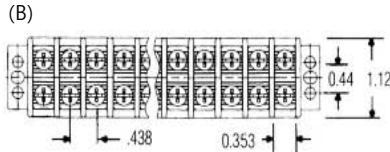
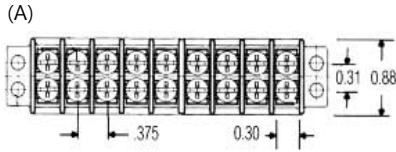
Size	Pkg. Qty.	Part #	Size	Pkg. Qty.	Part #	Size	Pkg. Qty.	Part #	Size	Pkg. Qty.	Part #
AAAA	66C10344	2	AA	66C10342	4	C	66C10494	12	9V	66C10341	1
AAA	66C10343	4							6V/Screw	66C10321	1
									6V/Lantern	66C10323	1



Terminal Blocks & Truck Terminal Blocks

Double Row Terminal Blocks - Surface Mounted

Small and **medium** have a rating of 30 amp, 300 volts. They have #6-32 screws and six mounting screws. The **large** have a rating of 30 amp, 600 volts. They have #8-32 screws and eight mounting screws. 14-22 gauge wire range. UL listed and CSA certified. Screws are zinc-plated steel unless noted below.



Number of Poles	(A) Small				(B) Medium				(C) Large			
	Overall Length	Zinc-Plated Steel Screws	Nickel-Plated Brass Screws	SS Screws	Overall Length	Zinc-Plated Steel Screws	Nickel-Plated Brass Screws	SS Screws	Overall Length	Zinc-Plated Steel Screws	Nickel-Plated Brass Screws	SS Screws
2	1.40"	31A33929	-----	-----	1.63"	31A33942	-----	-----	2.13"	66C11652	-----	-----
3	1.78"	31A33930	-----	-----	2.07"	31A33943	-----	-----	2.69"	31A33962	-----	-----
4	2.16"	66C11640	-----	-----	2.51"	66C11646	31A33944	31A33945	3.25"	31A33963	31A33964	-----
5	2.53"	31A33931	-----	-----	2.94"	31A33946	-----	-----	3.81"	31A33965	-----	-----
6	2.90"	66C11641	31A33932	-----	3.38"	66C11647	31A33947	-----	4.37"	66C11653	31A33966	-----
7	3.28"	31A33933	-----	-----	3.82"	31A33949	-----	-----	4.94"	31A33967	-----	-----
8	3.66"	66C11642	-----	-----	4.25"	66C11648	31A33950	31A33951	5.50"	66C11654	31A33968	-----
9	-----	-----	-----	-----	4.69"	31A33950	-----	-----	6.06"	31A33969	-----	-----
10	4.40"	66C11643	-----	-----	5.13"	66C11649	31A33953	-----	6.62"	66C11655	31A33970	-----
11	-----	-----	-----	-----	5.13"	31A33954	-----	-----	7.18"	31A33971	-----	-----
12	5.16"	66C11644	31A33934	-----	6.00"	66C11650	31A33955	-----	7.75"	31A33972	31A33973	-----
14	5.90"	31A33936	31A33937	-----	6.87"	31A33956	31A33957	-----	8.87"	31A33974	-----	-----
15	6.28"	-----	-----	-----	7.31"	-----	31A33958	-----	-----	-----	-----	-----
18	7.40"	31A33938	-----	-----	8.62"	31A33959	-----	-----	11.12"	31A33975	-----	-----
20	8.16"	31A33939	31A33940	-----	9.50"	-----	31A33960	-----	12.24"	31A33976	31A33977	-----
22	8.90"	31A33941	-----	-----	10.37"	31A33961	-----	-----	-----	-----	-----	-----
24	-----	-----	-----	-----	-----	-----	-----	-----	14.49"	31A33978	-----	-----

Terminal Block Jumpers



Use forks, rings and flat slip-ons to connect two circuits together.

Size	Forks	Rings	Flat Slip-ons
Small	25A28330	25A28332	31A32734
Medium	25A28331	31A33575	31A32735
Large	31A33573	31A33574	31A32736

Truck Terminal Blocks

	Description	Color	
(A)	Surface Mount (A) Insulated Mounting Bracket, 250 amps, 3/8-16 Thread Stud with Nut	Black	66C11637
	Insulated Mounting Bracket, 250 amps, 3/8-16 Thread Stud with Nut	Red	31A32744
(B)	Thru Wall (C) Insulated Mounting Bracket, 250 amps, 3/8-16 Thread Stud with Nut	Red	25A61765
(C)	(D) Insulated Mounting Bracket, 250 amps, 2.6" Overall Height, 3/8-16 Thread Stud with Nut	Black	66C11639

Truck Multi-Terminal Blocks

Terminal block contacts are 10-32 threads and a 1/4" mounting hole.



Number of Terminals	Overall Length	Number of Terminals	Overall Length
3	3 3/4"	6	6"
4	4 1/2"	7	5 1/4"
5	5 1/4"	8	7 1/2"

Tape

Electrical Tape 102
 Hook and Loop Tape 103
 Duct Tape 105
 Special Uses Tape 104-106

Heat-Shrink Tubing

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 Harsh-Environment
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Cable Ties

Standard Cable Ties 112
 Thomas & Betts Cable Ties 112
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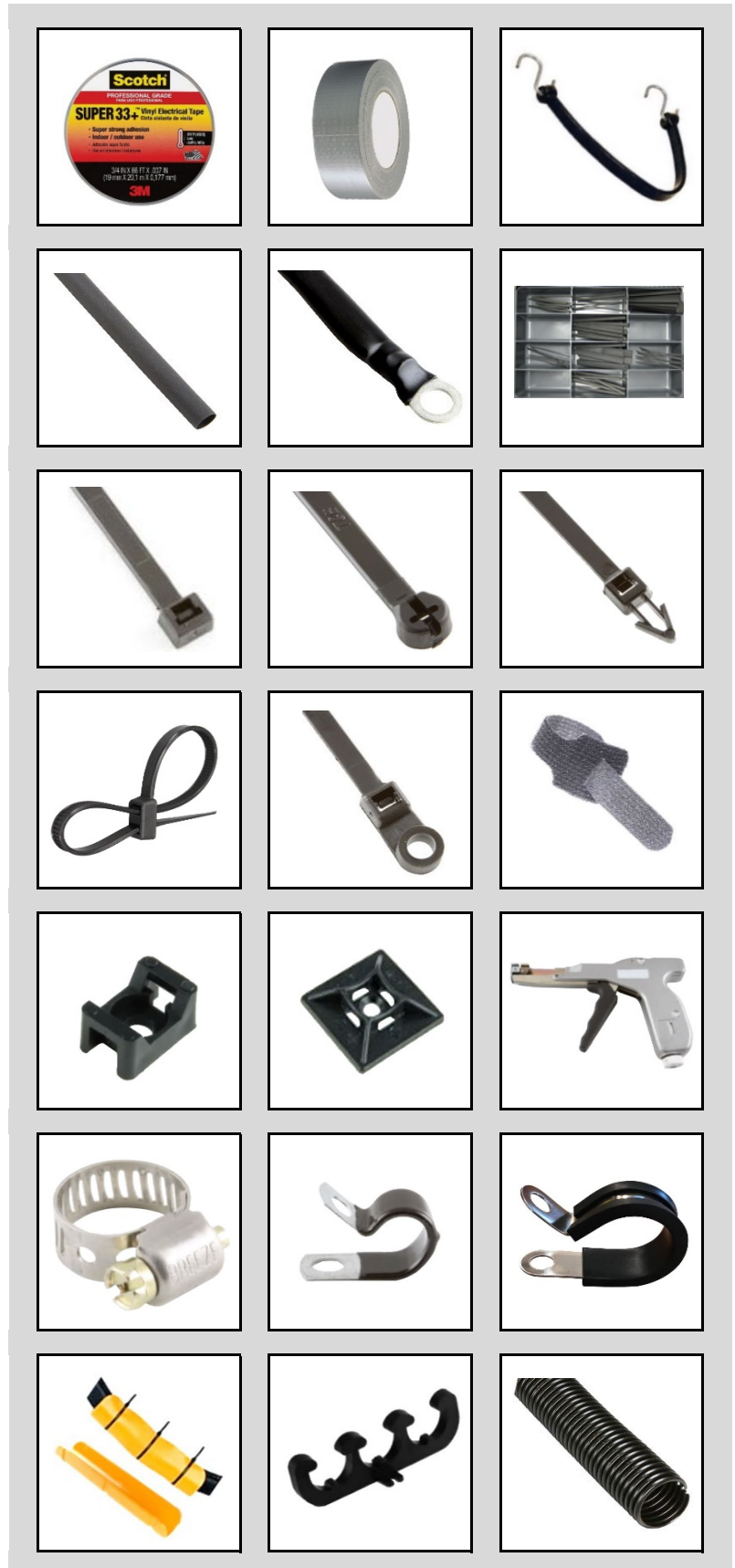
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 Mesh Sleeving 116

DIN Rail

DIN Rail 116



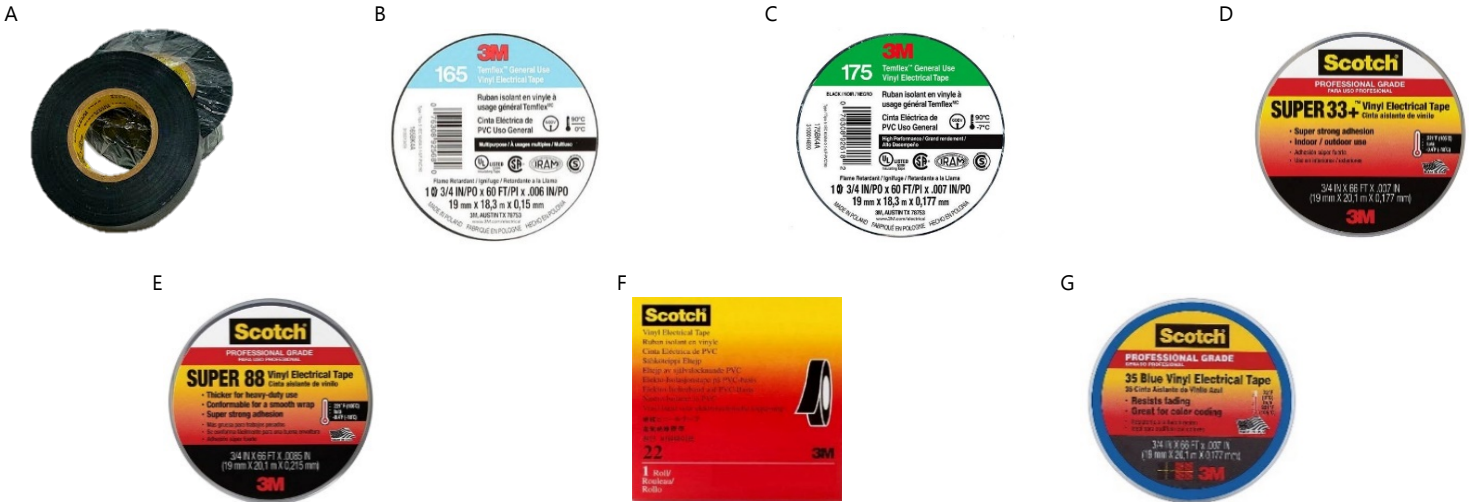
Electrical Tape

Electrical Tape

Our economical **66C10801** electrical tapes offer all of the benefits of more expensive tapes, but without the name brand.

Our **Scotch Super 33+**, **Super 88**, and **35** electrical tapes are the most popular and trusted tapes on the market. **Scotch Super 33+** tape handles 90% of applications and installations in both hot and cold environments. Often used in harsh environments and on critical equipment, **Scotch Super 88** is thicker than standard electrical tape allowing it to last longer and better handle abrasion. **Scotch 22** tapes are thicker for strength and resistance to abrasion. Use **Scotch 35** to color-code electrical installations and repairs. UL listed.

The **Temflex 165** and **175** are good quality tapes that resist a variety of weather conditions. **Temflex 165** gives great protection without being too bulky. Comes in several colors Temflex 175 can be easily molded in extreme cold weather application.



Color	Width	Length	
(A) Economical, 7 Mil			
Black	3/4"	66'	66C10801
White	3/4"	66'	66C10803
3M Temflex™ 1700, Economical, 7 Mil			
Black	3/4"	108'	11A56081
(B) 3M Temflex™ 165, Multi-Purpose, 6 Mil			
Black	3/4"	60'	29A54837
Blue	3/4"	60'	29A54838
Brown	3/4"	60'	29A54835
Gray	3/4"	60'	29A54836
Green	3/4"	60'	29A54839
Orange	3/4"	60'	29A54840
Purple	3/4"	60'	29A54841
Red	3/4"	60'	29A54844
White	3/4"	60'	29A54843
Yellow	3/4"	60'	29A54842
(C) 3M Temflex™ 175, High-Performance, 7 Mil			
Black	3/4"	60'	29A54845
(D) 3M Scotch Super 33+, All Weather, 7 Mil			
Black	3/4"	20'	11A54328
Black	3/4"	44'	29A11002
Black	3/4"	76'	29A11001
Black	3/4"	108'	11A56073
Black	1"	108'	11A56074
Black	1 1/2"	108'	11A56082
(E) 3M Scotch Super 88, Heavy-Duty, 8.5 Mil			
Black	3/4"	44'	11A54659
Black	3/4"	66'	29A11011
Black	3/4"	108'	11A54660
Black	1"	108'	11A56078
Black	1 1/2"	44'	11A54662
Black	1 1/2"	108'	11A56079
Black	2"	108'	11A54661

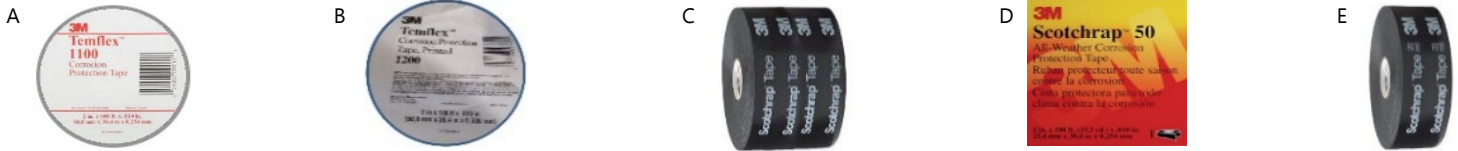
Color	Width	Length	
(F) 3M Scotch 22, Extra Heavy-Duty, 10 Mil			
Black	1/2"	108'	11A56156
Black	3/4"	108'	11A54646
Black	1"	108'	11A56075
Black	1 1/2"	108'	11A56076
Black	2"	108'	11A56077
(G) 3M Scotch 35 Color Coding, All Weather, 7 Mil			
Blue	1/2"	20'	11A54653
Blue	3/4"	66'	29A11003
Brown	1/2"	20'	11A54658
Brown	3/4"	66'	29A11004
Gray	1/2"	20'	11A54657
Gray	3/4"	66'	29A11005
Green	1/2"	20'	11A54655
Green	3/4"	66'	29A11006
Orange	1/2"	20'	11A54656
Orange	3/4"	66'	29A11007
Pink	3/4"	66'	29A11031
Red	1/2"	20'	11A54651
Red	3/4"	66'	29A11008
Violet	1/2"	20'	11A55565
Violet	3/4"	66'	29A11030
White	1/2"	20'	11A54652
White	3/4"	66'	29A11009
Yellow	1/2"	20'	11A54654
Yellow	3/4"	66'	29A11010
3M Scotch 35 Color Coding Multi-Packs, All Weather, 7 Mil			
Multi Color*	1/2"	(8) 20'	11A55749
*1 each: White, Orange, Blue, Yellow, Brown, Red, Purple, Green			
Multi Color**	1/2"	(5) 20'	11A56072
**1 each: Red, Blue, White, Green, Yellow			

Corrosion Protection Tape, Insulating and Splicing Tape & Hook and Loop

Corrosion Protection Tape

Use corrosion protection tape to help resistance to impact, abrasions and punctures. **1100 Temflex** and **1200 Temflex** tapes resist corrosion on conduits, joints and fittings. **Scotchrap 50** and **Scotchrap 51** tapes resist corrosion on metal piping.

3M Scotchrap pipe primer, part #11A55484 prepares metal surfaces for tape. For use with **Scotchrap 50** and **51**, also **1100 Temflex** tapes.



Color	Width	Length	
(A)3M 1100 Temflex, Thick General Purpose, 10 Mil			
Black	2"	100'	11A54546
Black	2"	100'	11A54547*
(B)3M 1200 Temflex, Thicker General Purpose, 20 Mil			
Black	2"	100'	11A51770*
(C)3M 50, All Weather, 10 Mil			
Black	1"	100'	11A54678
Black	1"	100'	11A53962
Black	2"	100'	29A11020
Black	2"	100'	11A53961*
Black	2"	100'	11A54679
Black	2"	100'	11A54664
Black	3"	100'	11A54639

*Printed

Color	Width	Length	
(D)3M Scotchrap 50, Thick All Weather, 10 Mil (Cont.)			
Black	4"	100'	11A53963*
Black	4"	100'	11A54665
Black	6"	100'	11A54773
(E)3M Scotchrap 51, Thicker All Weather, 20 Mil			
Black	1"	100'	11A55485*
Black	1"	100'	11A55489
Black	2"	100'	11A55486*
Black	2"	100'	11A55490
Black	4"	100'	11A55487*
Black	4"	100'	11A55491
Black	6"	100'	11A55488*
Black	6"	100'	11A55492

Insulating and Splicing Tapes

Scotch 130C insulating tape is rubber, linerless and is designed for use in splicing and terminating wire and cables. **Scotch 23** is self fusing and also a high voltage splicing tape. **Scotch varnished cambric tape 2510** and **2520** is primed with oil and coated with yellow electrical insulating varnish. Has excellent dielectric strength, and great resistance to moisture, corrosion, abrasion and acids.



Color	Width	Length	
(A)3M Scotch 130C, High Voltage Super-Duty, 30 Mil			
Black	3/4"	30'	29A11013
Black	1"	30'	29A11014
Black	1 1/2"	30'	11A55461
Black	2"	30'	11A55471
(B)3M Scotch 23, Similar to 130C, Peel Off Liner, 30 Mil			
Black	1"	30'	29A11015
(C)3M Temflex 2155, Peel Off Liner, Low Voltage, 30 Mil			
Black	1 1/2"	22'	11A55590
(D)3M Scotch 2242, High Voltage, Mid-Grade, General Purpose, 30 Mil			
Black	3/4"	15'	11A54334
Black	2"	15'	11A55504

Color	Width	Length	
(E)3M Scotch Varnished Cambric Tape 2510, No Adhesive, 7 Mil			
Yellow	3/4"	60'	11A55462
Yellow	3/4"	108'	11A54666
Yellow	1"	60'	29A11016
Yellow	1"	108'	11A54667
Yellow	1 1/2"	108'	11A54668
Yellow	2"	108'	11A54669
(F)3M Scotch Varnished Cambric Tape 2520, Adhesive, 8 Mil			
Yellow	3/4"	60'	29A11041
Yellow	3/4"	108'	11A54313
Yellow	1"	108'	11A54311
Yellow	1 1/2"	108'	11A54310
Yellow	2"	108'	11A54312

Hook and Loop

General purpose hook and loop has rubber adhesive. Pull the straps apart by hand. The hook side has tiny stiff hooks and the loop side is covered with pliable loops.

Heavy duty hook and loop has a pressure sensitive adhesive. It has dual lock reclosable fasteners, that are constructed of nylon stems with a mushroom shaped tops. This construction offers five times the strength of general purpose Velcro.

Both styles are black, have a temperature range of -20°F to 120°F, and are 1" wide.



Orientation	General Purpose	Heavy Duty	Pkg. Qty.
Hook	66C11823	66C11821	Per foot
Loop	66C11824	66C11822	Per foot

Sealing and Insulating & Special Uses Tape

Sealing and Insulating Tape

Scotch 06147 and **06149** protects against moisture, vibration, grime, and abrasion. Has a self-fusing rubber-based thin insulating mastic compound laminated to a PVC backing. **Scotch 2200** mastic is resistant to abrasions, acids, UV, and moisture. **Scotch-Seal 2229** has an excellent moisture and environmental seal. Seals high voltage cables. Use **Scotchfil** as build-up compound on irregular surfaces to provide a smooth, waterproof taping surface.



Color	Width	Length	
(A) 3M Scotch Mastic 06147, Vinyl, 45 Mil			
Black	2 1/2"	10'	29A11022
(B) 3M Scotch Mastic 06149, Vinyl, 45 Mil			
Black	2 1/2"	2 1/2"	11A51852
(C) 3M Scotch Mastic 2200, All Weather, 125 Mil			
Black	6 1/2"	4 1/2"	29A11023
(D) 3M Scotch Mastic 2228, Rubber, Self Fusing, 65 Mil			
Black	1"	10'	11A55602
Black	2"	10'	11A54640

Color	Width	Length	
(E) 3M Scotch-Seal Mastic 2229, Rubber, Soft and Pliable 125 Mil			
Black	1"	10'	11A55559
Black	1 1/2"	30'	11A55587
Black	2 1/2"	3 3/4"	11A51851
Black	3 3/4"	10'	11A55458
Black	3 3/4"	3 3/4"	11A55588
Black	3 3/4"	6 1/2"	11A55589
(F) 3M Scotchfil, 125 Mil			
Black	1 1/2"	60'	29A11021

Special Uses Tape

Scotch High Temperature Glass Tape

Glass Tape has a woven insulation, resistant to high temperatures and has great mechanical strength.

Scotch Glass Cloth 27



Scotch Glass Cloth 69



Color	Width	Length	
Scotch Glass Tape 27, High Temperature 266°F, 7 Mil			
White	1/2"	66'	29A11018
White	3/4"	66'	29A11047

Color	Width	Length	
Scotch Glass Cloth 69, Super High Temperature 356°F, 7 Mil			
White	1/2"	66'	29A11019
White	3/4"	66'	11A54641

Friction Tape



Friction tape offers good protection against abrasion and penetration of cables, splices, and wire. **Cotton** tape has a fabric feel and 1500 volt dielectric strength. **45 series** tape has rubber base adhesive for maximum elasticity and moisture resistance. **Temflex Cotton 1755** is a high grade friction tape with good abrasion protection for splices and connectors.

Width	Length	Color	
Cotton Friction, 45 Series, 15 Mil			
3/4"	60'	Black	29A11017
3M Temflex Cotton Friction, 1755, 13 Mil			
3/4"	60'	Black	11A51779

Width	Length	Color	
3M Temflex Cotton Friction, 1755, 13 Mil (Cont.)			
3/4"	82 1/2'	Black	11A55584
1 1/2"	82 1/2'	Black	11A55585
2"	108"	Black	11A51785

Masking Tape



Tough tape for everyday jobs. Sticks to many surfaces and removes cleanly. Masking tape has a thick crepe paper back, resists paint bleed and tears easily.

Width	Length	Color	
Scotch General Purpose Masking 234, Rubber Adhesive, 5.9 Mil			
3/4"	108'	Natural	11A49023
2"	108'	Natural	11A49183

Width	Length	Color	
Scotch High Performance Masking 232, 6.3 Mil			
1"	108'	Natural	11A49010
2"	108'	Natural	11A49181

Teflon Pipe Thread Seal Tape, 4 Mil



Teflon tape creates leak proof joints and applies easily. Mil spec approved.

Width	Length	Color	
1/4"	43'	White	29A11037
1/2"	43'	White	29A11036
3/4"	43'	White	29A11038

(Continued on following page)

Special Uses Tape (Continued from previous page)

Duct Tape

Use duct tape for sealing, holding, bundling, identifying, and color-coding. **Classic duct** tape handles just about any job. Super sticky, this tape will stand the test of time, even in wet environments.



Width	Length	Color	
Classic Duct, Super Adhesive 11 Mil			
2"	180'	Silver	29A11024
2"	180'	Black	39A11025
3M Value Duct 1900, 5.8 Mil			
1.88"	150'	Silver	11A51408
2.83"	150'	Silver	11A51409
3M General Use Duct 2929, 6 Mil			
1.88"	150'	Silver	11A51412
3M Extra Heavy Duty Duct 6969, 10.7 Mil			
1.88"	180'	Silver	11A52824
2.83"	180'	Silver	11A50123
3M Multi-Purpose Duct 3900, For Color-Coding, 7.7 Mil			
1.88"	180'	Black	11A49761
1.88"	180'	Blue	11A49760
1.88"	180'	Yellow	11A49756

Width	Length	Color	
3M Multi-Purpose Duct 3900, For Color-Coding, 7.7 Mil (Cont.)			
1.88"	180'	White	11A49757
1.88"	180'	Olive	11A49759
1.88"	180'	Red	11A49758
1.88"	180'	Silver	11A52826
3M Heavy Duty Duct 3939, High Tack Adhesive, 9 Mil			
0.94"	180'	Silver	11A50118
1.88"	180'	Silver	11A52825
2.83"	180'	Silver	11A50119
3.77"	180'	Silver	11A50120
3M Performance Plus Duct 8979, 12.1 Mil			
1.88"	180'	Black	11A50833
1.88"	180'	Slate Blue	11A49790
1.88"	180'	Slate Blue	11A50830
2.83"	180'	Slate Blue	11A49791

Premium Carton Sealing Tape, Ultra Clear, 2.6 Mil

Package sealing tape has 20 lb. tensile strength to handle heavy-duty carton sealing needs.



Width	Length	Color	
2"	330'	Clear	29A11045

Shrink Tubing in a Tape Form

Cold shrink and **silicone extreme temperature** tape requires no heat, sets in seconds and cures in hours. Stretches 2-3 times its length and bonds to itself to form one solid piece of shrink tube. Ideal for odd shapes, repair jobs, mid-points of long cable and explosive environments.

Silicone extreme temperature can handle up to 600 PSI in high pressure applications.



Width	Length	Color	
Cold Shrink, Rubber, -60°F to 500°F			
1"	10'	Black	29A11027
1"	10'	White	29A11029
Silicone Extreme Temperature, No Heat, Up to 400°F			
1"	10'	Black	29A11028
1"	10'	Blue	29A11051
1"	10'	Clear	29A11053

Width	Length	Color	
Silicone Extreme Temperature, No Heat, Up to 400°F (Cont.)			
1"	10'	Gray	29A11048
1"	10'	Green	29A11050
1"	10'	Orange	29A11052
1"	10'	Red	29A11049
1"	10'	White	29A11054
1"	10'	Yellow	29A11055

Brush-On Electrical Tape

Liquid spreadable tape comes in a 4oz can with a brush in the top. Protects, waterproofs, and seals.

Part # 29A11034



Reflective Tape - Conspicuity Tape

Conspicuity tape has a prismatic design, to mark the sides and rear of vehicles for greater visibility. This tape has pressure-sensitive adhesive back and paper liner.

DOT-C2 approved. Durable, impact and solvent resistant.



Color	Print Pattern	Width	Length	
Silver/Red	7"/11"	2"	150'	29A11035

Spray Cleaners

Contact cleaner removes oils, light grease, particulates, and silicones. It is fast drying, non-corrosive and non-flammable, safe for plastics, metals, electrical components, and live circuits. Odorless. 11oz spray can.

Part # 29A11039



Electronic degreaser removes oils, silicones, grease and light soiling. It is fast drying, non-corrosive and non-flammable, safe for most metals and most plastics. It is odorless and comes in a 12oz spray can.

Part # 29A11040



Rubber Straps

The high density nylon rubber straps are ultraviolet resistant. The hooks are made of galvanized steel for extra strength.

Strap Length	Maximum Stretch	
10"	14"	66C11472
15"	22"	66C11473
21"	31"	66C11474
31"	46"	66C11475
41"	61"	66C11476



3M VHB Tape

3M VHB Heavy Duty Bonding Tape

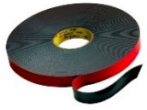
VHB tapes are double-sided tapes made from high performance acrylic adhesives.

General Purpose

Modified Adhesive on Both Sides of a Soft Foam

Uses: Excellent for a wide variety of surfaces. Powder coated paints and plastics, metal and glass. For interior and exterior.

Also for textured surfaces, or when sealing is needed.



Color	Width	Length	Thickness	3M Model #	
Black	1/4"	108'	25 mil	5925	11A49780
Black	1/2"	108'	25 mil	5925	11A49778
Black	1/2"	108'	45 mil	5952	11A49795
Black	3/4"	108'	45 mil	5952	11A50272
Black	1"	108'	25 mil	5925	11A49776
Black	1"	108'	45 mil	5952	11A49777
Black	1"	108'	62 mil	5962	11A50062

Firm Adhesive on One Side, Soft Adhesive on Other Side of Medium Foam.

Uses: Can replace rivets, welds and screws. Metal, glass and some plastics.



Color	Width	Length	Thickness	3M Model #	
White	1/2"	108'	45 mil	4622	11A49611
White	1"	108'	45 mil	4622	11A49609

Specialty

Firm Adhesive on Both Sides of a Firm Foam

Uses: Strong tape for glass and metal. Use where high stresses are involved.



Color	Width	Length	Thickness	3M Model #	
White	1"	108'	120 mil	4959	11A49955
White	1"	216'	25 mil	4930	11A49414

Soft Adhesive on Both Sides of a Firm Foam

Uses: Great for HSE plastics. Use where high stresses are involved.



Color	Width	Length	Thickness	3M Model #	
White	3/4"	108'	45 mil	4945	11A49396
White	3/4"	108'	45 mil	4945	11A49877
White	1"	108'	45 mil	4945	11A49397

Soft Adhesive on Both Sides of a Medium Foam

Uses: Excellent adhesion to a wide range of high surface energy materials and most plastics.



Color	Width	Length	Thickness	3M Model #	
Gray	1/2"	108'	45 mil	4941	11A49888
Gray	1/2"	108'	45 mil	4941	11A50064
Gray	1/2"	108'	90 mil	4991	11A50063
Gray	1/2"	216'	25 mil	4936	11A49902
Gray	1/2"	216'	25 mil	4936	11A49614
Gray	3/4"	108'	45 mil	4941	11A49874
Gray	3/4"	216'	25 mil	4936	11A49597
Gray	1"	108'	45 mil	4941	11A49875
Gray	1"	108'	45 mil	4941	11A49890
Gray	1"	108'	90 mil	4991	11A49773
Gray	1"	216'	25 mil	4936	11A49596
Gray	1"	216'	25 mil	4936	11A49612

Clear Firm Foam Adhesive

Uses: High energy materials where a clear adhesive is required.



Color	Width	Length	Thickness	3M Model #	
Clear	1/2"	108'	45 mil	4910	11A50106
Clear	1/2"	216'	20 mil	4905	11A50211
Clear	3/4"	108'	45 mil	4910	11A50107
Clear	3/4"	216'	20 mil	4905	11A50212
Clear	1"	108'	45 mil	4910	11A50108

Low Temperature Adhesive on Both Sides of Firm Foam

Uses: Low temperature areas.

Color	Width	Length	Thickness	3M Model #	
White	1"	108'	45 mil	4951	11A49918

High Temperature Firm Foam Adhesive

Uses: High temperature resistance. Bond metals prior to powder coating.



Color	Width	Length	Thickness	3M Model #	
Dk. Gray	1/2"	108'	45 mil	4611	11A49781
Dk. Gray	1/2"	108'	45 mil	4611	11A49784
Dk. Gray	3/4"	108'	45 mil	4611	11A49772
Dk. Gray	1"	108'	45 mil	4611	11A49774

3M™ Ear Protection

Earplugs

E-A-R™ Push-Ins™ Earplugs

Constructed of 3M™ E-A-Rform™ foam, these earplugs feature a no roll-down design and a blue stem for a quick and easy fit. Poly bag keeps earplugs clean before use. Noise Reduction Rating (NRR) 28 dB. CSA Class AL. Sold in packages of 25.

Part # 11A56327



E-A-Rsoft™ Yellow Neon Blasts™ Earplugs

3M™ E-A-Rsoft™ Yellow Neon Blasts™ earplugs seal the ear canal with soft, slow-recovery foam for excellent noise reduction and comfort. Poly bag keeps earplugs clean before use. Noise Reduction Rating (NRR) 33 dB. CSA Class AL. Sold in packages of 50.

Part # 11A56324



Tri-Flange™ Earplugs

3M™ Tri-Flange™ cloth corded reusable earplugs features a proven, triple-flange design and pliable, premolded material to provide clean and comfortable hearing protection. Cloth cord connects earplugs. Noise Reduction Rating (NRR) 26 dB CSA Class AL. Sold in packages of 5.

Part # 11A56366



Earmuffs

PELTOR™ Optime™ 95 Earmuffs

3M™ Peltor™ Optime™ 95 over-the-head earmuffs feature a stainless steel headband for consistent force and effective hearing protection. Earmuffs provide hearing protection against high-frequency noise up to 95 dBA. Noise Reduction Rating (NRR) 21 dB. Sold individually.

Part # 11A56341



PELTOR™ Optime™ 105 Earmuffs

3M™ Peltor™ Optime™ 105 over-the-head earmuffs feature double-shell technology to provide effective hearing protection for noise exposures up to 105dBA. Noise Reduction Rating (NRR) 30 dB, highest available in over-the-head style earmuffs. Sold individually.

Part # 11A56349



Cap-Mount PELTOR™ Optime™ 95 Earmuffs

3M™ Peltor™ Optime™ 95 cap-mount earmuffs feature a universal mounting attachment that fits most hard hats. Stainless steel construction resists bending and warping. Ear cup pivot points tilt for optimum comfort and efficiency. Color-coding for compliance sighting. Noise Reduction Rating (NRR) 21 dB. CSA Class B. Sold individually.

Part # 11A56344



Eye Protection

3M™ Safety Glasses

Nuvo™ Protective Eyewear

3M™ Nuvo™ protective eyewear has clear anti-fog polycarbonate lenses, that absorbs 99% of UV rays and a gray frame. Retro styling gives them a nostalgic look. The bar over the brow and side shields offer added protection, while the soft bridge cushions protect the nose. Sold individually.

Part #11A56188



Peltor™ Sport SecureFit™ 400 Glasses

3M™ Peltor™ Sport SecureFit™ glasses are great for use with hearing protection. High impact-resistant lenses with anti-fog coating and absorb 99% UV rays. They are flexible and lightweight for a secure and comfortable fit. Sold individually.

Part #29A39171



Virtua™ Sport CCS Protective Eyewear

3M™ Virtua™ Sport CCS protective eyewear has anti-fog polycarbonate lenses, that absorbs 99% of UV rays. They have an athletic-looking style and wraparound lenses which provide extended eye protection. The temples are designed to hold the cords of earplugs to keep them in place. Sold individually.

Part #11A56176



Shark Industries Safety Glasses and Goggles

21st Century Protective Glasses

21st Century Protective Glasses have orange flat folding side-shields. They have a snug secure fit and the scratch resistant polycarbonate lenses provide UV and impact protection. Sold individually.

Part #14A19825



Box Style Stationary Acetylene Goggles

Box style stationary acetylene goggles are made of a soft vinyl that forms to your head. The 2" x 4 1/4" goggles have a #5 lens and pit resistant cover. Can be worn over regular eyeglasses or with a magnifying lens. Sold individually.

Part #14A19809



Box Style Flip-Up Acetylene Goggles

Box style flip-up acetylene goggles are made of a soft vinyl. The 2" x 4 1/4" goggles have a #5 lens and vents to prevent fogging. Can be worn over regular eyeglasses or with a magnifying lens. Sold individually.

Part #14A19810



Heat Shrink Tubing

Standard Heat Shrink Tubing (2 to 1)



Polyolefin is the most popular style of shrink tubing. With a 2 to 1 shrink ratio, it heats evenly, doesn't bubble or split, and is self-extinguishing. It also offers greater flexibility. Maximum temperature of 275°F.

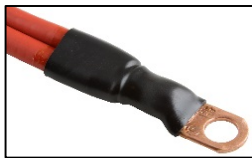
Meets UL 224, CSA 198.1 and MIL-I-23053/5.

Color	4-ft. Lengths	100-ft. Spools
3/64" ID Before Shrink, 1/64" ID After Shrink		
Black	19A12056	19A12148
Clear	19A12057	19A12143
Green	19A12145	19A12144
Red	19A12146	19A12147
White	19A12149	19A12150
Yellow	19A12151	19A12152
1/16" ID Before Shrink, 1/32" ID After Shrink		
Black	19A12083	19A12008
Blue	19A12171	19A12164
Clear	19A12009	19A12084
Green	19A12172	19A12165
Red	19A12010	19A12085
White	19A12011	19A12086
Yellow	19A12087	19A12088
3/32" ID Before Shrink, 3/64" ID After Shrink		
Black	19A12046	19A12130
Blue	19A12127	19A12133
Clear	19A12047	19A12128
Red	19A12129	19A12048
White	19A12049	19A12131
Yellow	19A12050	19A12132
1/8" ID Before Shrink, 1/16" ID After Shrink		
Black	19A12027	19A12109
Blue	19A12028	19A12112
Clear	19A12029	19A12104
Green	19A12030	19A12105
Orange	19A12106	19A12107
Red	19A12031	19A12108
White	19A12032	19A12110
Yellow	19A12033	19A12111
3/16" ID Before Shrink, 3/32" ID After Shrink		
Black	19A12039	19A12124
Blue	19A12118	19A12040
Clear	19A12119	19A12041

Color	4-ft. Lengths	100-ft. Spools
3/16" ID Before Shrink, 3/32" ID After Shrink		
(Cont.)		
Green	19A12120	19A12042
Orange	19A12121	19A12122
Red	19A12123	19A12043
White	19A12044	19A12125
Yellow	19A12045	19A12126
1/4" ID Before Shrink, 1/8" ID After Shrink		
Black	19A12019	19A12100
Blue	19A12095	19A12103
Clear	19A12021	19A12096
Green	19A12022	19A12097
Gray	19A12023	19A12098
Red	19A12024	19A12099
White	19A12025	19A12101
Yellow	19A12026	19A12102
5/16" ID Before Shrink, 5/32" ID After Shrink		
Black	19A12064	19A12163
3/8" ID Before Shrink, 3/16" ID After Shrink		
Black	19A12058	19A12158
Blue	19A12153	19A12161
Clear	19A12059	19A12154
Green	19A12155	19A12156
Red	19A12060	19A12157
White	19A12061	19A12159
Yellow	19A12062	19A12160
1/2" ID Before Shrink, 1/4" ID After Shrink		
Black	19A12012	19A12092
Blue	19A12013	19A12020
Clear	19A12014	19A12089
Green	19A12015	19A12090
Red	19A12016	19A12091
White	19A12017	19A12093
Yellow	19A12018	19A12094

Color	4-ft. Lengths	100-ft. Spools
5/8" ID Before Shrink, 5/16" ID After Shrink		
Black	19A12168	19A12065
Red	19A12066	19A12169
White	19A12067	19A12170
3/4" ID Before Shrink, 3/8" ID After Shrink		
Black	19A12051	19A12139
Blue	19A12134	19A12142
Clear	19A12052	19A12135
Green	19A12136	19A12137
Red	19A12053	19A12138
White	19A12054	19A12140
Yellow	19A12055	19A12141
1" ID Before Shrink, 1/2" ID After Shrink		
Black	19A12001	19A12080
Blue	19A12074	19A12075
Clear	19A12076	19A12002
Green	19A12077	19A12078
Red	19A12003	19A12079
White	19A12004	19A12081
Yellow	19A12005	19A12082
1 1/4" ID Before Shrink, 5/8" ID After Shrink		
Black	19A12072	19A12073
1 1/2" ID Before Shrink, 3/4" ID After Shrink		
Black	19A12006	19A12070
Blue	19A12068	19A12071
Clear	19A12069	19A12007
2" ID Before Shrink, 1" ID After Shrink		
Black	19A12034	19A12115
Clear	19A12037	19A12113
Red	19A12035	19A12114
White	19A12036	19A12116
3" ID Before Shrink, 1 1/2" ID After Shrink		
Black	19A12038	19A12117
4" ID Before Shrink, 2" ID After Shrink		
Black	19A12063	19A12162

Heavy Duty Adhesive-Lined Heat Shrink Tubing (3 to 1)



Use this heavy wall shrink tubing in the harshest of applications, including direct burial, submersible, corrosive, severe mechanical, and high voltage jobs. Adhesive lining allows the shrink tubing to attach itself to the wire or terminal it is encapsulating, giving it a watertight seal. The high shrink ratio (3 to 1) enables easy bridging and encapsulation of odd shaped connectors or applications. Polyolefin is the standard-bearer in the shrink tubing market. It heats evenly, doesn't bubble or split, and is self-extinguishing. Install with a butane torch or heat gun.

Maximum temperature of 230°F. Meets MIL-I-23053/15 Class 1, AMS-DTL-23053/15, UL 486D (rated for direct burial), UL 224, VW-1.

ID Before Shrink	ID After Shrink	Color	6" Lengths	4-ft. Lengths
5/16"	1/16"	Black	19A15005	19A15006
5/16"	1/16"	Red	19A15007	19A15008
3/8"	1/8"	Black	19A15009	19A15010
3/8"	1/8"	Black	19A15013	19A15014
3/8"	1/8"	Red	19A15015	19A15016
1/2"	3/16"	Black	19A15017	19A15018
1/2"	3/16"	Red	19A15019	19A15020

ID Before Shrink	ID After Shrink	Color	1-ft. Lengths	4-ft. Lengths
3/4"	1/4"	Black	19A15021	19A15022
3/4"	1/4"	Red	19A15023	19A15024
1 1/8"	5/16"	Black	19A15025	19A15026
1 1/8"	5/16"	Red	19A15027	19A15028
1 3/8"	1/2"	Black	19A15040	19A15039
1 1/2"	1/2"	Black	19A15030	19A15029
1 1/2"	1/2"	Red	19A15032	19A15031
2"	5/8"	Black	19A15033	19A15034
2"	5/8"	Red	19A15035	19A15036
3 3/4"	1 1/8"	Black	19A15037	19A15038
4 1/2"	1 1/2"	Black	19A15041	66C11873
5"	1 5/8"	Black	19A15042	66C11874
7"	2 3/8"	Black	19A15043	66C11875

Harsh-Environment Adhesive-Lined Heat Shrink Tubing (3 to 1)

Adhesive lining allows the shrink tubing to attach itself to the wire or terminal, giving it a watertight seal. Use this shrink tubing in applications that need shelter from the elements or contaminants. The high shrink ratio (3 to 1) enables easy bridging and encapsulation of odd shaped connectors or applications. The medium wall heats evenly, doesn't bubble or split, and is self-extinguishing. Install with a butane torch or heat gun. Maximum temperature of 230°F.



Meets MIL-I-23053/4 Class 3, AMS-DTL 23053, UL 224, VW-1, and CSA OFT Recognized.

Color	6" Lengths	1-ft. Lengths	4-ft. Lengths
1/8" ID Before Shrink, 1/32" ID After Shrink			
Black	19A13007	-----	19A13008
Blue	19A13065	-----	19A13066
Clear	19A13011	-----	19A13012
Green	19A13067	-----	19A13068
Red	19A13009	-----	19A13010
White	19A13069	-----	19A13070
Yellow	19A13071	-----	19A13072

3/16" ID Before Shrink, 3/64" ID After Shrink			
Black	19A13019	-----	19A13021
Blue	19A13081	-----	19A13082
Clear	19A13023	-----	19A13024
Green	19A13083	-----	19A13084
Red	19A13020	-----	19A13022
White	19A13085	-----	19A13086
Yellow	19A13087	-----	19A13088

1/4" ID Before Shrink, 3/32" ID After Shrink			
Black	19A13001	-----	19A13002
Blue	-----	19A13057	19A13058
Clear	19A13005	-----	19A13006
Green	-----	19A13059	19A13060
Red	19A13003	-----	19A13004
White	-----	19A13061	19A13062
Yellow	-----	19A13063	19A13064

3/8" ID Before Shrink, 1/8" ID After Shrink			
Black	19A13025	-----	19A13027
Blue	-----	19A13097	19A13098
Clear	19A13029	-----	19A13030
Green	-----	19A13099	19A13100
Red	19A13026	-----	19A13028
White	-----	19A13101	19A13102
Yellow	-----	19A13103	19A13104

Color	6" Lengths	1-ft. Lengths	4-ft. Lengths
1/2" ID Before Shrink, 5/32" ID After Shrink			
Black	19A13013	-----	19A13014
Blue	-----	19A13049	19A13050
Clear	19A13017	-----	19A13018
Green	-----	19A13051	19A13052
Red	19A13015	-----	19A13016
White	-----	19A13053	19A13054
Yellow	-----	19A13055	19A13056

3/4" ID Before Shrink, 1/4" ID After Shrink			
Black	19A13031	-----	19A13033
Blue	-----	19A13089	19A13090
Clear	19A13035	-----	19A13036
Green	-----	19A13091	19A13092
Red	19A13034	-----	19A13032
White	-----	19A13093	19A13094
Yellow	-----	19A13095	19A13096

1" ID Before Shrink, 5/16" ID After Shrink			
Black	-----	19A13037	19A13038
Blue	-----	19A13073	19A13074
Clear	-----	19A13041	19A13042
Green	-----	19A13075	19A13076
Red	-----	19A13039	19A13040
White	-----	19A13077	19A13078
Yellow	-----	19A13079	19A13080

1 1/2" ID Before Shrink, 1/2" ID After Shrink			
Black	-----	19A13045	19A13043
Clear	-----	19A13105	19A13106
Red	-----	19A13044	19A13046

Adhesive-Lined Black Heat Shrink Tubing for Odd Shapes (4 to 1)

With a 4 to 1 shrink ratio, this shrink tubing can encapsulate just about any odd shape you may need to permanently seal off from the environment. Adhesive lining allows the shrink tubing to attach itself to the wire or terminal for a watertight seal. Use this shrink tubing in applications that need shelter from the elements or contaminants. This medium wall heats evenly, doesn't bubble or split, and is self-extinguishing. It also offers greater flexibility than PVC shrink tubing. Install with a butane torch or heat gun. Maximum temperature of 230°F.

Meets MIL-I-23053/4 Class 3, UL 224 600V, 125 Degree C, VW-1, CSA OFT Recognized.



ID Before Shrink	ID After Shrink	1-ft. Lengths	4-ft. Lengths
5/32"	1/32"	19A14001	19A14002
5/16"	1/16"	19A14003	19A14004
1/2"	1/8"	19A14005	19A14006
5/8"	5/32"	19A14007	19A14008
1"	1/4"	19A14009	19A14010
1 1/4"	5/16"	19A14011	19A14012
2"	1/2"	19A14014	19A14013

Color-Coded Adhesive-Lined Heat Shrink Tubing (3 to 1)

The translucent color tint is matched to the terminal it can encapsulate: red for 22-18 gauge terminals, blue 16-14 gauge terminals and yellow 12-10 gauge terminals. Wire gauges are imprinted on the exterior of the shrink tubing. The clarity allows you to see inside while installing or maintaining. Adhesive lining allows the shrink tubing to attach itself to the wire or terminal, giving it a watertight seal. The high shrink ratio (3 to 1) enables easy bridging and encapsulation of odd shaped connectors or applications. Maximum temperature of 230°F. Meets MIL-DTL-23053/4 and UL E157227.



ID Before Shrink	ID After Shrink	Color	6" Lengths	4-ft. Lengths
For 22-18 Ga. Terminals				
1/8"	1/32"	Clear Red	19A16003	19A16004
For 16-14 Ga. Terminals				
1/4"	5/64"	Clear Blue	19A16001	19A16002
For 12-10 Ga. Terminals				
3/8"	1/64"	Clear Yellow	19A16005	19A16006

Heat Shrink Tubing and Kits, Hose Clamp Kit & Hose Clamp Racks

Economy Heat Shrink Tubing (2 to 1)

This economical PVC shrink tubing is not as easy to install as polyolefin, but it does offer better resistance to chemicals and has a tougher outer layer. It also stands up better to direct sunlight. Offers a 2 to 1 shrink ratio and maximum temperature of 221°F. Meets MIL-I-23053/2, MIL-DTL-2 CLASS 2, UL 224 VW-1, and CSA OFT Recognized.

ID Before Shrink	ID After Shrink	Color	Part Number	Pkg. Qty.	ID Before Shrink	ID After Shrink	Color	Part Number	Pkg. Qty.
3/64"	1/64"	Black	19A11020	100-ft. Spools	3/8"	3/16"	Black	19A11022	100-ft. Spools
3/64"	1/64"	Clear	19A11021	100-ft. Spools	3/8"	3/16"	Clear	19A11023	100-ft. Spools
1/16"	1/32"	Black	19A11006	100-ft. Spools	1/2"	1/4"	Black	19A11008	100-ft. Spools
1/16"	1/32"	Clear	19A11007	100-ft. Spools	1/2"	1/4"	Clear	19A11009	100-ft. Spools
3/32"	3/64"	Black	19A11016	100-ft. Spools	5/8"	5/16"	Black	19A11025	50-ft. Spools
3/32"	3/64"	Clear	19A11017	100-ft. Spools	3/4"	3/8"	Black	19A11018	50-ft. Spools
1/8"	1/16"	Black	19A11011	100-ft. Spools	3/4"	3/8"	Clear	19A11019	50-ft. Spools
1/8"	1/16"	Clear	19A11012	100-ft. Spools	1"	1/2"	Black	19A11003	4-ft. Lengths
1/8"	1/16"	Yellow	19A11013	100-ft. Spools	1 1/4"	5/8"	Black	19A11005	4-ft. Lengths
3/16"	3/32"	Black	19A11014	100-ft. Spools	1 1/2"	3/4"	Black	19A11004	4-ft. Lengths
3/16"	3/32"	Clear	19A11015	100-ft. Spools	2"	1"	Black	19A11002	4-ft. Lengths
1/4"	1/8"	Black	19A11010	100-ft. Spools	4"	2"	Black	19A11001	1-ft. Lengths
5/16"	5/32"	Black	19A11024	100-ft. Spools					

Shrink Tubing in a Tape Form



Cold shrink and silicone extreme temperature tape requires no heat, sets in seconds and cures in hours. Stretches 2-3 times its length and bonds to itself to form one solid piece of shrink tube. Ideal for odd shapes, repair jobs, mid-points of long cable and explosive environments.

Silicone extreme temperature can handle up to 600 PSI in high pressure applications.

See page #105 for the complete line of shrink tubing in a tape form.

Adhesive-Lined Shrink Tubing (3 to 1) Kit



This kit contains 7 different (3 to 1) adhesive-lined shrink tubing sizes from 1/8" to 3/4", 65 pieces total. Comes in a large metal box, 18"w x 12"d x 3"h. Kit can be ordered in red or black adhesive-lined shrink tubing.

Part Numbers
Black Kit #19A17001
Red Kit #19A17001

Adhesive lining allows the shrink tubing to attach itself to the wire or terminal, giving it a watertight seal. Use this shrink tubing in applications that need shelter from the elements or contaminants.

Kit Contains	Kit Contains	Description	Qty.
Medium Wall			
X750-1/8	19A13009	1/8" Diameter Adhesive-Lined	10
X750-3/16	19A13020	3/16" Diameter Adhesive-Lined	10
X750-1/4	19A13003	1/4" Diameter Adhesive-Lined	10
Heavy Wall			
X700-3B	19A15007	5/16" Dia. Heavy Duty Adhesive-Lined	10
X700-4B	19A15015	13/32" Dia. Heavy Duty Adhesive-Lined	10
X700-5B	19A15019	1/2" Dia. Heavy Duty Adhesive-Lined	10
X700-7B	19A15023	3/4" Dia. Heavy Duty Adhesive-Lined	5

Standard Heat Shrink Tubing (2 to 1) Kit



This kit contains 8 different black (2 to 1) standard shrink tubing sizes from 1/16" to 3/4", 32 feet total. Comes in a large metal box, 18"w x 12"d x 3"h.

Polyolefin is the most popular style of shrink tubing. It heats evenly and doesn't bubble or split.

Part # 66C11518

Kit Contains	Description	Qty.
19A12083	1/16" Diameter Black Shrink Tubing	4 feet
19A12046	3/32" Diameter Black Shrink Tubing	4 feet
19A12027	1/8" Diameter Black Shrink Tubing	4 feet
19A12039	3/16" Diameter Black Shrink Tubing	4 feet
19A12019	1/4" Diameter Black Shrink Tubing	4 feet
19A12058	3/8" Diameter Black Shrink Tubing	4 feet
19A12012	1/2" Dia. Diameter Black Shrink Tubing	4 feet
19A12051	3/4" Diameter Black Shrink Tubing	4 feet

Worm-Drive Hose Clamp Kit



Full diameter coverage of nine different sizes of standard worm drive hose clamps. From 7/32" to 2 3/4". Includes rack.

Part # 66C11001



Kit Contains	Qty.	Kit Contains	Qty.	Kit Contains	Qty.
4M-HC	30	12-HC	20	28-HC	20
6M-HC	30	20-HC	20	32-HC	20
10-HC	20	24-HC	20	36-HC	20

Hose Clamp Racks

These racks are free standing and designed not to tip. They also can be peg board mounted or wall mounted. Hose clamps are not included.



Overall Height	Overall Width	Part Number
(A) 16.75"	21.6"	21A20001
(B) 18"	14"	21A20002
(C) 22.75"	22.5"	21A20003

Hose Clamps, Protectors, Organizers & Spacers

Worm-Drive Hose Clamps

The **standard** are the most popular style of hose clamps for industrial and automotive applications.

Use these **soft-touch** worm-drive hose clamps with soft hoses and tubes. An integral smooth inner liner covers up the fastening slots that can cut into soft hoses. There are no bumps under the housing to jeopardize the concentricity of the seal and no laminated coverings to disintegrate under heat, ultraviolet, or corrosive attacks.

The **regular** hose clamps have stainless steel bands and housings with carbon steel slotted hex screws. The **harsh environment** hose clamps are commonly used in marine and burial applications, the all stainless steel design allows these hose clamps to stand up to tough environments. No steel or spot welds to rust, corrode, or rupture. Meet SAE J1508.



Standard

Fits Hose OD	SAE #	Regular	Harsh Environ.	Pkg. Qty.	Fits Hose OD	SAE #	Regular	Harsh Environ.	Pkg. Qty.
1/4"-5/8"	4 Mini	21A15001	21A16001	10	(Cont.)				
7/16"-3/4"	6 Mini	21A15002	21A16002	10	2 9/16"-3 1/2"	48	21A15015	-----	10
7/16"-3/4"	6	21A15003	21A16003	10	2 13/16"-3 3/4"	52	21A15016	-----	10
1/2"-7/8"	8	21A15004	21A16004	10	3 1/16"-4"	56	21A15017	-----	10
9/16"-1 1/16"	10	21A15005	21A16005	10	3 5/16"-4 1/4"	60	21A15018	-----	10
11/16"-1 1/4"	12	21A15006	21A16006	10	3 9/16"-4 1/4"	64	21A15019	-----	10
13/16"-1 1/2"	16	21A15007	21A16007	10	1 7/8"-5"	72	21A15020	-----	10
13/16"-1 3/4"	20	21A15008	21A16008	10	2 1/2"-5 1/2"	80	21A15021	-----	10
1 1/16"-2"	24	21A15009	21A16009	10	3 1/8"-6"	88	21A15022	-----	10
1 5/16"-2 1/4"	28	21A15010	21A16010	10	3 5/8"-6 1/2"	96	21A15023	-----	10
1 9/16"-2 1/2"	32	21A15011	21A16011	10	4 1/8"-7"	104	21A15024	-----	10
1 13/16"-2 3/4"	36	21A15012	21A16012	10	5 5/8"-8 1/2"	128	21A15025	-----	10
2 1/16"-3"	40	21A15013	21A16013	10	7 1/8"-10"	152	21A15026	-----	10
2 5/16"-3 1/4"	44	21A15014	-----	10	9 3/8"-12 1/4"	188	21A15027	-----	10

Soft Touch

Fits Hose OD	SAE #	Regular	Harsh Environ.	Pkg. Qty.	Fits Hose OD	SAE #	Regular	Harsh Environ.	Pkg. Qty.
1/4"-5/8"	4 Mini	21A17001	-----	10					
7/16"-3/4"	6 Mini	-----	-----	10					
7/16"-3/4"	6	21A17002	21A18001	10					
1/2"-7/8"	8	21A17003	21A18002	10					
9/16"-1 1/16"	10	21A17004	21A18003	10					
11/16"-1 1/4"	12	21A17005	21A18004	10					
13/16"-1 1/2"	16	21A17006	21A18005	10					
13/16"-1 3/4"	20	21A17007	21A18006	10					
1 1/16"-2"	24	21A17008	21A18007	10					
1 5/16"-2 1/4"	28	21A17009	21A18008	10					
1 9/16"-2 1/2"	32	21A17010	21A18009	10					
1 13/16"-2 3/4"	36	21A17011	21A18010	10					
2 1/16"-3"	40	21A17012	21A18011	10					
2 5/16"-3 1/4"	44	21A17013	-----	10					

Constant-Tension Worm-Drive Hose Clamps

As fluid runs through your hose, thermal expansion and contraction will occur. These hose clamps will adjust right along with it, keeping the same tension on your hose. Commonly used in commercial vehicle truck/diesel engine agricultural off-road applications. The all stainless steel design allows these hose clamps to stand up to tough environments. Meet SAE J1508.



Fits Hose OD	SAE #	Pkg. Qty.	Fits Hose OD	SAE #	Pkg. Qty.	Fits Hose OD	SAE #	Pkg. Qty.
9/16"-1 1/16"	10	21A19001	3/4"-1 1/16"	175	21A19004	2 1/4"-3 1/8"	312	21A19007
11/16"-1 1/4"	12	21A19002	1 1/4"-2 1/8"	212	21A19005	2 3/4"-3 5/8"	362	21A19008
13/16"-1 1/2"	16	21A19003	1 3/4"-2 5/8"	262	21A19006	3 3/4"-4 5/8"	462	21A19009

No-Maintenance Constant-Tension T-Bolt Hose Clamps

No maintenance required - the large spring allows for greater thermal expansion and contraction than a standard hose clamp. Commonly used in charge air cooling systems, for maintaining tension on hoses that experience high temperature and pressure swings. Band is 3/4" wide. Meet SAE J1508.



Fits Hose OD	SAE #	Pkg. Qty.	Fits Hose OD	SAE #	Pkg. Qty.	Fits Hose OD	SAE #	Pkg. Qty.
2 1/2"-2 3/4"	52	21A24001	3 9/16"-3 7/8"	86	21A24003	4 9/16"-4 7/8"	118	21A24005
3 1/16"-3 3/8"	70	21A24002	4 1/16"-4 3/8"	102	21A24004			

Hose Protectors

Prevent failures in your hydraulic, air line and electrical cables by adding these heavy duty protectors where your hose may wear due to vibration, abrasion or puncture. Impervious to solvents, oils, grease, and gasoline. -40° to 400° F. Sold Individually.



For Hose Diameter	Length	Black	Orange	Yellow	For Hose Diameter	Length	Black	Orange	Yellow
1/4" - 1"	4"	21A23001	21A23006	21A23011	1 1/4" - 2 1/4"	10"	21A23004	21A23009	21A23014
3/4" - 1 1/4"	6"	21A23002	21A23007	21A23012	1 1/2" - 2 1/2"	12"	21A23005	21A23010	21A23015
1" - 1 1/2"	8"	21A23003	21A23008	21A23013					

Hose Organizers

Simplify the routing and prevent damage to your hose lines with this rugged handler of unruly hoses. Simply snap the hose in the organizer. For the 3/4" sizes and larger, use the mounting tab to secure the organizer to any surface. Color is black. Sold individually.

For Hose Diameter	Number of Hoses	For Hose Diameter	Number of Hoses	For Hose Diameter	Number of Hoses
3/16"	4	1/2"	4	1 1/8"	4
1/4"	4	3/4"	4	1 3/8"	3
3/8"	4	1"	4		



Hose Spacers

Hose Diameters			Hose Diameters		
1st Hose	2nd Hose		1st Hose	2nd Hose	
3/4"	x 3/4"	21A23023	1 1/8"	x 1 1/8"	21A23025
1"	x 1"	21A23024	1 3/8"	x 1 3/8"	21A23026

Simplify the routing and prevent damage to your hose lines. Simply cable tie your two lines into place in this spacer. Color is black. Sold individually.



Cable Ties & Thomas and Betts Cable Ties

Cable Ties



These American made cable ties are military spec #MIL-M-20693B. Choose UV black ties for outdoor applications. The UV black protection allows cable ties to last longer in the sun. UL listed. Made of nylon 6/6 and have operating temperature -40°F to 185°F

Heavy duty cable ties are wider, giving them greater strength for demanding applications.

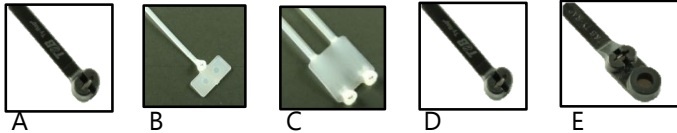
Length	Burst Strength	Color	Max. Bundle Dia.	Width	Pkg. Qty.
Standard — White and UV Black					
4"	18 lbs.	White	.875"	0.1"	16A11001 100
4"	18 lbs.	UV Black	.875"	0.1"	16A11002 100
5.5"	18 lbs.	White	1.25"	0.1"	16A11009 100
5.5"	18 lbs.	UV Black	1.25"	0.1"	16A11010 100
5.7"	40 lbs.	White	1.63"	0.14"	16A11013 100
5.5"	40 lbs.	UV Black	1.63"	0.14"	16A11014 100
8"	18 lbs.	White	2"	0.1"	16A11011 100
8"	18 lbs.	UV Black	2"	0.1"	16A11012 100
8"	40 lbs.	White	2"	0.14"	16A11025 100
8"	40 lbs.	UV Black	2"	0.14"	66C11626 100
8"	50 lbs.	White	2"	0.2"	66C11632 100
8"	50 lbs.	UV Black	2"	0.2"	66C11635 100
11.5"	40 lbs.	White	3.2"	0.14"	16A11027 100
11.8"	50 lbs.	White	3"	0.2"	16A11039 100
11.8"	50 lbs.	UV Black	3"	0.2"	66C11629 100
14.5"	40 lbs.	White	4"	0.14"	16A11023 100
14.5"	40 lbs.	UV Black	4"	0.14"	16A11024 100
14.8"	50 lbs.	White	4"	0.2"	16A11045 100
14.8"	50 lbs.	UV Black	4"	0.2"	16A11046 100
17"	50 lbs.	White	4.75"	0.2"	16A11047 100

Length	Burst Strength	Color	Max. Bundle Dia.	Width	Pkg. Qty.
Standard — Colors					
4"	18 lbs.	Blue	0.75"	0.1"	16A11003 100
4"	18 lbs.	Green	0.75"	0.1"	16A11004 100
4"	18 lbs.	Gray	0.75"	0.1"	16A11005 100
4"	18 lbs.	Orange	0.75"	0.1"	16A11006 100
4"	18 lbs.	Red	0.75"	0.1"	16A11007 100
4"	18 lbs.	Yellow	0.75"	0.1"	16A11008 100
5.7"	40 lbs.	Blue	1.63"	0.14"	16A11015 100
5.7"	40 lbs.	Brown	1.63"	0.14"	16A11019 100
5.7"	40 lbs.	Green	1.63"	0.14"	16A11020 100
5.7"	40 lbs.	Gray	1.63"	0.14"	16A11021 100
5.7"	40 lbs.	Orange	1.63"	0.14"	16A11022 100
5.7"	40 lbs.	Purple	1.63"	0.14"	16A11018 100

Length	Burst Strength	Color	Max. Bundle Dia.	Width	Pkg. Qty.
Standard Colors (Cont.)					
5.7"	40 lbs.	Red	1.63"	0.14"	16A11016 100
5.7"	40 lbs.	Yellow	1.63"	0.14"	16A11017 100
8"	50 lbs.	Blue	2"	0.2"	16A11030 100
8"	50 lbs.	Brown	2"	0.2"	16A11031 100
8"	50 lbs.	Green	2"	0.2"	16A11032 100
8"	50 lbs.	Orange	2"	0.2"	16A11034 100
8"	50 lbs.	Purple	2"	0.2"	16A11035 100
8"	50 lbs.	Red	2"	0.2"	16A11036 100
8"	50 lbs.	Yellow	2"	0.2"	16A11037 100
8"	50 lbs.	Assortment	2"	0.2"	16A11038 100
11.8"	50 lbs.	Blue	3"	0.2"	16A11041 100
11.8"	50 lbs.	Green	3"	0.2"	16A11042 100
11.8"	50 lbs.	Gray	3"	0.2"	16A11043 100
11.8"	50 lbs.	Yellow	3"	0.2"	16A11044 100

Length	Burst Strength	Color	Max. Bundle Dia.	Width	Pkg. Qty.
Heavy Duty					
9"	120 lbs.	White	2"	0.3"	16A12001 100
9"	120 lbs.	UV Black	2"	0.3"	16A12002 100
15"	120 lbs.	White	4"	0.3"	16A12003 100
15"	120 lbs.	UV Black	4"	0.3"	16A12004 100
15"	250 lbs.	UV Black	4"	0.5"	16A12017 100
17.75"	120 lbs.	White	5"	0.3"	16A12005 100
17.75"	120 lbs.	UV Black	5"	0.3"	16A12006 100
22"	250 lbs.	UV Black	6"	0.5"	16A12018 100
24.5"	120 lbs.	White	7"	0.3"	16A12007 100
24.5"	120 lbs.	UV Black	7"	0.3"	16A12008 100
25.2"	175 lbs.	White	7"	0.4"	16A12009 100
25.2"	175 lbs.	UV Black	7"	0.4"	16A12010 100
32"	175 lbs.	White	9.4"	0.4"	16A12011 100
32"	175 lbs.	UV Black	9.4"	0.4"	16A12012 100
36"	175 lbs.	White	10.7"	0.4"	16A12013 100
36.5"	175 lbs.	UV Black	10.4"	0.4"	16A12014 100
48"	175 lbs.	White	14.4"	0.4"	16A12015 100
48"	175 lbs.	UV Black	14.4"	0.4"	16A12016 100

Thomas & Betts Cable Ties



The Thomas & Betts Ty-Rap® brand you know and love offers a stainless steel lock embedded in the nylon head for extra durability. Operating temperature -40°F to 185°F, unless noted. UL Flame rating 94V-2.

Cable ties with UV black protection allow them to last longer in the sun.

Length	Burst Strength	Color	Max. Bundle Dia.	Width	Pkg. Qty.
(A) Standard					
3.6"	18 lbs.	White	0.63"	0.1"	16A20001 100
3.6"	18 lbs.	UV Black	0.63"	0.1"	16A20002 100
5.5"	40 lbs.	White	1.13"	0.14"	16A20004 100
5.5"	40 lbs.	UV Black	1.13"	0.14"	16A20005 100
7.3"	50 lbs.	White	1.75"	0.2"	16A20007 100
7.3"	50 lbs.	UV Black	1.75"	0.2"	16A20008 100
8"	18 lbs.	White	2"	0.1"	16A20003 100
8.2"	40 lbs.	White	2"	0.14"	16A20006 100
11.1"	40 lbs.	White	3"	0.14"	16A20009 100
11.1"	40 lbs.	UV Black	3"	0.14"	16A20010 100
11.4"	50 lbs.	White	3"	0.2"	16A20011 100
11.4"	50 lbs.	UV Black	3"	0.2"	16A20012 100
13.4"	120 lbs.	White	3.5"	0.3"	16A20015 100
13.4"	120 lbs.	UV Black	3.5"	0.3"	16A20016 100
14.2"	50 lbs.	White	4"	0.2"	16A20013 100
14.2"	50 lbs.	UV Black	4"	0.2"	16A20014 100

Length	Burst Strength	Color	Max. Bundle Dia.	Width	Hole Dia.	Pkg. Qty.
(A) Standard (Cont.)						
18"	120 lbs.	UV Black	5"	0.3"		16A20017 100
30"	120 lbs.	White	9"	0.3"		16A20018 100
Specialty						
(B) ID Tag						
4"	18 lbs.	White	0.63"	0.09"		16A21004 100
(C) Double ID Tag						
7.25"	50 lbs.	White	1.75"	0.19"		16A21005 100
(D) High Temperature (-50°F to 302°F)						
13.4"	120 lbs.	Blue	3.5"	0.3"		16A22001 100
(E) Screw-Mount						
Length	Burst Strength	Color	Max. Bundle Dia.	Width	Hole Dia.	Pkg. Qty.
6"	40 lbs.	White	1.13"	0.14"	#8	16A21001 100
7.8"	50 lbs.	White	1.75"	0.18"	#10	16A21002 100
13.9"	120 lbs.	UV Black	3.5"	0.3"	1/4"	16A21003 100

Specialty Cable Ties & Hellermann Tyton Cable Ties

Specialty Cable Ties



Are made of nylon. Choose UV black ties for outdoor applications. The UV black protection allows cable ties to last longer in the sun. The round shape head of the **hose clamp style** cable ties allows 360° compression for fuel, water, and air lines. **Snag free** has a head that sits low to avoid scraping things around it. **Push mount** cable ties will fit through panel wall thickness 0.04" to 0.14" and **winged push mount** through panel wall thickness up to 0.125". **Washer head** cable ties have a plastic washer to prevent the cable tie from pulling through a hole. UL listed.

Length	Burst Strength	Color	Max. Bundle Dia.	Width		Pkg. Qty.
(A) Double Loop						
7.5"	50 lbs.	White	1.75"	0.2"	16A17001	100
8"	50 lbs.	UV Black	1.5"	0.2"	16A17002	100
(B) Hose Clamp Style						
8"	60 lbs.	White	1.75"	0.2"	16A18001	100
8"	60 lbs.	UV Black	1.75"	0.2"	16A18002	100
ID Tag						
(C) Parallel ID Tag						
4"	18 lbs.	White	0.875"	0.1"	16A14002	100
4"	18 lbs.	White	0.625"	0.1"	16A21004	100
(D) Perpendicular ID Tag						
4.3"	18 lbs.	White	0.7"	0.1"	16A14001	100
(E) Perpendicular ID Tag						
7.5"	50 lbs.	White	1.75"	0.2"	16A14003	100
15"	50 lbs.	White	4"	0.2"	16A14004	100
(F) Double Tie ID Tag						
7.25"	50 lbs.	White	1.75"	0.2"	16A21005	100
Push Mount						
(G) Push Mount (Requires 1/4" predrilled hole)						
7.5"	50 lbs.	White	1.75"	0.2"	16A15003	100
7.5"	50 lbs.	UV Black	1.75"	0.2"	16A15004	100
(H) Winged Push Mount (Requires 1/4" predrilled hole)						
7.9"	50 lbs.	White	1.8"	0.2"	16A15001	100
7.9"	50 lbs.	UV Black	1.8"	0.2"	16A15002	100
(I) Snag Free						
16"	120 lbs.	White	4"	0.3"	16A19001	100

Length	Burst Strength	Color	Max. Bundle Dia.	Width		Pkg. Qty.
(J) Releasable						
7.5"	50 lbs.	UV Black	1.75"	0.2"	16A16001	100
11"	50 lbs.	White	3"	0.2"	16A16004	100
11"	50 lbs.	UV Black	3"	0.2"	16A16003	100
14.5"	50 lbs.	UV Black	4"	0.2"	16A16005	100
(K) High Temperature (-50°F to 302°F)						
13.4"	120 lbs.	Blue	3.5"	0.3"	16A22001	100
(L) Washer Head						
9.6"	150 lbs.	Black	2.62"	0.22"	16A23001	100
15"	150 lbs.	Black	4.33"	0.22"	16A23002	100
Length	Burst Strength	Color	Max. Bundle Dia.	Width	Hole Dia.	Pkg. Qty.
(M) Screw Mount						
5.5"	30 lbs.	White	1"	0.14"	#4	16A13001 100
5.9"	40 lbs.	UV Black	1.25"	0.14"	#4	16A13002 100
6"	40 lbs.	White	1.13"	0.14"	#8	16A21001 100
7.8"	50 lbs.	White	1.75"	0.2"	#10	16A21002 100
8"	50 lbs.	White	2"	0.2"	#10	16A13003 100
8"	50 lbs.	UV Black	2"	0.2"	#10	16A13004 100
13.9"	120 lbs.	UV Black	3.5"	0.3"	1/4"	16A21003 100
14.5"	50 lbs.	White	4"	0.2"	#10	16A13005 100
14.5"	50 lbs.	UV Black	4"	0.2"	#10	16A13006 100
15"	120 lbs.	White	4"	0.3"	1/4"	16A13007 100
15"	120 lbs.	UV Black	4"	0.3"	1/4"	16A13008 100

Hellermann Tyton Cable Ties

The Hellermann Tyton cable ties are engineered and manufactured for maximum performance and quality. The T-series has inside serrations for a strong hold onto bundles. Use the **EVO®7** or the **EVO®9** tools to increase productivity and reduce operator injuries.

HellermannTyton



Burst Strength	Length	Max. Bundle Dia.	Width	Black	Natural	Pkg. Qty.
Standard						
18 lbs.	4"	0.9"	0.1"	16A84087	16A84106	100
18 lbs.	4"	0.9"	0.1"	16A84090	16A84107	1000
18 lbs.	8"	2.2"	0.1"	16A84070	16A84080	100
18 lbs.	8"	2.2"	0.1"	16A84073	16A84081	1000
30 lbs.	5.8"	1.4"	0.1"	16A84159	16A84185	100
30 lbs.	5.8"	1.4"	0.1"	16A84163	16A84187	1000
50 lbs.	8"	2"	0.2"	16A84294	16A84328	100
50 lbs.	8"	2"	0.2"	16A84299	16A84331	1000
50 lbs.	12"	3.2"	0.2"	16A84217	16A84235	100
50 lbs.	12"	3.2"	0.2"	16A84221	16A84236	1000
50 lbs.	15.4"	4.3"	0.2"	16A84246	16A84271	100
50 lbs.	15.4"	4.3"	0.2"	16A84249	16A84273	1000
Heavy Duty						
120 lbs.	8.9"	2.2"	0.3"	16A84027	16A84031	50
120 lbs.	8.9"	2.2"	0.3"	16A84025	16A84030	500
120 lbs.	15.2"	4.1"	0.3"	16A84008	16A84020	50
120 lbs.	15.2"	4.1"	0.3"	16A84005	16A84019	500

EVO®7

- **For Use with:** T18, T30, T40, T50 and T80 series
- Provides reliability and durability
- Lightweight and ergonomic design
- Tension dial offers 33 easy to read settings, with 1/4" increments
- Tension lock prevents operator from changing settings during use



Part #16A79058

EVO®9

- **For Use with:** T50, T80, T120, T150 and T250 series
- Provides clean, flush cuts for 50lb. to 250lb. cable ties
- Impact resistant housing
- Easy to adjust tension knob, 33 settings
- Advanced design reduces hand force and kickback, reducing injuries



Part #16A79066

Cable Tie Mounts, Hook and Loop Cable Ties & Cable Tie Kits

Adhesive-Backed Cable Tie Mounts



Attach cable ties to flat surfaces with these mounts. UV black mounts resist the sun's fatigue. **Adhesive backed** mounts are rated for 125°F. Our **super-stick** adhesive backed mounts have extra holding capacity for heavy duty jobs, and are rated for 185°F. Simply peel and stick. Sets in seconds. Made of nylon. Acrylic based adhesive.

Mounting Base Size	Adhesive Backed				Super-Stick Adhesive Backed			
	For Cable Tie Sizes	White	UV Black	Pkg. Qty.	For Cable Tie Sizes	White	UV Black	Pkg. Qty.
0.5" Square	18#	16A27001	16A27002	50	-----	-----	-----	---
0.75" Square	18, 30, 40, 50#	16A27003	16A27004	50	18, 30, 40#	16A28003	16A28004	25
1" Square	18, 30, 40, 50#	16A27005	16A27013	50	18, 30, 40, 50#	16A28005	16A28013	25
1.12" Square	18, 30, 40, 50#	16A27006	16A27007	50	18, 30, 40, 50#	16A28006	16A28007	25
1.5" Square	50, 120#	16A27009	16A27010	50	50, 120#	16A28009	16A28010	10
2" Square	120, 175#	16A27011	16A27012	10	120, 175#	16A28011	16A28012	10

Specialty Cable Tie Mounts



A



B



C



D

Mounting Base Size	For Cable Tie Sizes	Color	Screw Size	Pkg. Qty.	Mounting Base Size	For Cable Tie Sizes	Color	Screw Size	Pkg. Qty.		
(A)Screw-In Saddle					(B)Easy-Screw-In						
0.54" X 0.34"	18#	White	#4	16A28014	50	0.75" X 0.38"	30, 40, 50#	White	#8	16A28020	100
0.60" X 0.385"	30, 40, 50#	UV Black	#8	16A28016	50	0.75" X 0.38"	30, 40, 50#	White	#10	16A28021	100
0.60" X 0.385"	30, 40, 50#	White	#8	16A28015	50	(C)Low-Profile Screw-In					
0.875" X 0.625"	120, 50#	White	#10	16A28017	50	0.73" X 0.49"	30, 40, 50#	White	#6-8	16A28022	50
0.875" X 0.625"	120, 50#	UV Black	#10	16A28018	50	(D)Push Mount					
0.86" X 0.62"	175#	UV Black	1/4"	16A28019	25	0.28" X 0.62"	Up to 50#	White	1/4"	16A28023	50

Hook and Loop Cable Ties

These hook and loop ties are reusable and won't cut into your bundle. No jagged edge to catch on. Color is black.



Length	Max. Bundle Dia.	Width	Pkg. Qty.	Length	Max. Bundle Dia.	Width	Pkg. Qty.		
6"	1.3"	0.5"	16A30001	10	15"	4.1"	0.75"	16A30004	10
8"	1.9"	0.5"	16A30002	10	18"	5.1"	0.75"	16A30005	10
11"	2.9"	0.5"	16A30003	10	24"	7"	0.75"	16A30006	10

Cable Tie Kits and Tools

White and UV Black Cable Tie Kits



Unsure of which cable tie will meet your needs? These kits contain 1,000 pieces. Each kit has six sizes of cable ties and two sizes of cable tie mounts. It is all contained in a large metal box, 18"w x 12"d x 3"h.

The sun won't fatigue our UV black cable ties.

Part # 16A29002
Part # 16A29001*

Kit Contains	Description	Qty.	(Cont.)	Description	Qty.
16A12003	15", 120 lb., White, Heavy Duty	50	16A11013	5.7", 40 lb., White, Standard	200
16A11045	14.8", 50 lb., White, Standard	100	16A11001	4", 18 lb., White, Mini	300
16A11039	11.8", 50 lb., White, Standard	100	16A27006	1.12", White, Mount	25
16A11028	8", 50 lb., White, Standard	200	16A27003	0.75", White, Mount	25

*Part # 16A29001 Contains same items as above, but in UV black.

Cable Tie Bundling Tools

Cable tie tools are used for bundling cable ties. Tightens and cuts flush in one motion. Die cast construction. Durable and high volume tools. Easy to adjust.



Key	Used with	Width Range	
(A)	18lb. To 50lb. Cable Ties	Up to 0.18"	37A20007
(B)	18lb. To 50lb. Cable Ties	0.094" to 0.344"	37A20005
(C)	18lb. To 50lb. Cable Ties	Up to 0.19"	37A20004

Vinyl Coated, Nylon and Cushion Clamps, Clamp Kits & Frame Clips

Vinyl Coated Clamps

An easy way to secure cables while reducing vibration. Made of galvanized steel with a vinyl cover. Fasteners not included.



Full Clamp Half Clamp

Clamp Diameter	Pkg. Qty.	Clamp Diameter	Pkg. Qty.		
1/2" Wd., 0.28" Hole Dia.		3/4" Wd., 0.41" Hole Dia.			
Full Clamps					
1/8"	21A12001	50	3/8"	21A12004	25
1/4"	21A12002	25	1/2"	21A12005	25
5/16"	21A12003	25	5/8"	21A12006	25
3/8"	21A12015	25	3/4"	21A12007	10
1/2"	21A12016	25	7/8"	21A12008	10
5/8"	21A12017	25	1"	21A12009	10
3/4"	21A12018	10	1 1/4"	21A12010	10
1 1/2"	21A12019	25	1 1/2"	21A12011	25
Half Clamps					
1/4"	21A13001	25	1 3/4"	21A12012	10
3/8"	21A13002	25	2"	21A12013	5
1/2"	21A13003	10	2 1/2"	21A12020	25
3/4"	21A13004	10	3"	21A12014	1

Vinyl Coated Clamp Kit

This kit contains 10 different vinyl coated galvanized steel clamps, 235 pieces, sizes 1/8" to 1 1/2" diameter. Comes in a large metal box, 18"w x 12"d x 3"h.



Part # 21A22002

Kit Contains	Description	Qty.
21A12001	1/8" Vinyl Coated Clamps	50
21A12002	1/4" Vinyl Coated Clamps	50
21A12003	5/16" Vinyl Coated Clamps	25
21A12004	3/8" Vinyl Coated Clamps	25
21A12005	1/2" Vinyl Coated Clamps	25
21A12006	5/8" Vinyl Coated Clamps	15
21A12007	3/4" Vinyl Coated Clamps	15
21A12009	1" Vinyl Coated Clamps	10
21A12010	1 1/4" Vinyl Coated Clamps	10
21A12011	1 1/2" Vinyl Coated Clamps	10

Cushion Cable Clamps

The cushion will not cut into soft cable when vibration occurs, and it will keep a good hold. Also is more durable than a plastic clamp. Made of steel with a neoprene cushion cover. Fastener hole diameter is 0.26". Fasteners not included.



Clamp Diameter	Pkg. Qty.	Clamp Diameter	Pkg. Qty.		
1/8"	21A14001	50	7/8"	21A14007	25
1/4"	21A14002	50	1"	21A14008	25
3/8"	21A14003	25	1 1/4"	21A14009	10
1/2"	21A14004	25	1 1/2"	21A14010	10
5/8"	21A14005	50	2"	21A14011	5
3/4"	21A14006	25	2 1/2"	21A14012	5

Frame Clips

Secures wires to frame of truck or angle iron. Heat treated steel coated in black zinc finish. Sold in packages of 50.



Part # 21A21001

Nylon Cable Clamps

An easy and economical way to secure cables. Made entirely from nylon, so there's nothing to corrode or rust. Fasteners not included.



Clamp Diameter	Black		White	
	Pkg. Qty.		Pkg. Qty.	
0.17" Fastener Hole Diameter				
1/8"	21A11002	50	21A11001	100
3/16"	21A11004	50	21A11003	100
1/4"	21A11006	50	21A11005	100
5/16"	21A11008	50	21A11007	50
3/8"	21A11010	50	21A11009	100
1/2"	21A11012	50	21A11011	100
0.20" Fastener Hole Diameter				
5/8"	21A11014	50	21A11013	100
3/4"	21A11016	50	21A11015	50
7/8"	66C11271	50	21A11017	50
1"	21A11019	50	21A11018	50
1 1/8"	-----	----	21A11020	50
1 1/4"	66C11270	50	21A11021	50

Nylon Cable Clamp Kit

This kit contains 10 different white nylon cable clamps, 300 pieces, sizes 1/8" to 1 1/8" diameter. Comes in a large metal box, 18"w x 12"d x 3"h.



Part # 21A22001

Kit Contains	Description	Qty.
21A11001	1/8" White Nylon Cable Clamps	50
21A11003	3/16" White Nylon Cable Clamps	50
21A11005	1/4" White Nylon Cable Clamps	50
21A11007	5/16" White Nylon Cable Clamps	25
21A11009	3/8" White Nylon Cable Clamps	25
21A11011	1/2" White Nylon Cable Clamps	25
21A11013	5/8" White Nylon Cable Clamps	25
21A11015	3/4" White Nylon Cable Clamps	25
21A11018	1" White Nylon Cable Clamps	20
21A11020	1 1/8" White Nylon Cable Clamp	20

Cushion Cable Clamp Kit

This kit contains 10 different cushion clamps, 225 pieces, sizes 1/8" to 1 1/2" diameter. Made of fine-plated steel with a neoprene cushion cover. Comes in a large metal box, 18"w x 12"d x 3"h.



Part # 21A22003

Kit Contains	Description	Qty.
21A14001	1/8" Cushion Clamps	50
21A14002	1/4" Cushion Clamps	50
21A14003	3/8" Cushion Clamps	25
21A14004	1/2" Cushion Clamps	25
21A14005	5/8" Cushion Clamps	15
21A14006	3/4" Cushion Clamps	15
21A14007	7/8" Cushion Clamps	15
21A14008	1" Cushion Clamps	10
21A14009	1 1/4" Cushion Clamps	10
21A14010	1 1/2" Cushion Clamps	10

Cable Management & Din Rails

Cable Management

Spiral Bundling Wrap-Around Sleeving



Bundle wire and tubes in this flexible, abrasion-resistant spiral wrap. Features the ability to access the bundle at any point along the way. Create bundles by wrapping this material on as you would with tape - easy to install and reusable. Use **UV black** style for outdoor applications to resist fatigue from the sun.

Diameter (At Rest)	Max. Diameter	UV Black		Clear	
		Pkg. Qty.	Pkg. Qty.	Pkg. Qty.	Pkg. Qty.
1/8"	1/2"	18A11002	100	18A11001	100
1/4"	2"	18A11004	100	18A11003	100
3/8"	3"	18A11008	100	18A11007	100
1/2"	4"	18A11010	100	18A11009	100
5/8"	4 1/2"	18A11012	100	18A11011	100
3/4"	5"	18A11014	100	18A11013	100
1"	7"	18A11017	100	18A11016	100

Convuluted Nylon Sleeving



Bundle and protect wire and tubes with this nylon abrasion-resistant convuluted split loom. Black with grey stripe. Maximum temperature rating of -40°F to 320°F.

Diameter (At Rest)	Pkg. Qty.	Diameter (At Rest)	Pkg. Qty.		
Black					
1/4"	18A12001	100	1 1/8"	18A12010	50
3/8"	18A12002	100	1 1/4"	18A12011	50
1/2"	18A12004	100	1 1/2"	18A12012	50
5/8"	18A12005	100	2"	18A12013	50
3/4"	18A12008	100	Dark Green		
1"	18A12009	100	3/8"	18A12003	100

Packard Corrugated Loom Clips

Type	Inside	Conduit ID	Mfg. #	Pkg. Qty.	
Outlet Fitting	0.500		8905793	12A16022	25
Conduit Clip	0.413		8911378	12A16024	25
Rosebud Clip	0.350		8911169	12A16023	25

Mesh Sleeving

Resists gasoline, engine chemicals, and cleaning solvents. The diameter of the mesh sleeving expands for easy installation and a tight, secure bundle. Great flexibility and excellent cut and abrasion resistance. Black in color. Maximum temperature rating of 257°F.

Standard style cuts with a hot knife. The **no-fray** style makes it easy to install. Cutting this material to size is easy - simply use sharp scissors. **Flame-retardant** mesh sleeving is made from flame-retardant material to make it extra safe. The X-tracer signifies the flame-retardant material. Cut with a hot knife.

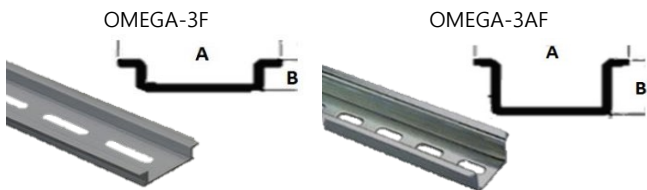
Standard	Diameter (At Rest)	Max. Diameter	Standard		No-Fray		Flame-Retardant	
			Pkg. Qty.	Pkg. Qty.	Pkg. Qty.	Pkg. Qty.		
	1/8"	1/4"	18A13001	100	18A14001	50	18A15001	100
	1/4"	3/4"	18A13002	100	18A14002	50	18A15002	100
	3/8"	5/8"	18A13004	50	18A14003	25	18A15003	50
	1/2"	3/4"	18A13005	50	18A14004	25	18A15004	25
	3/4"	1 1/4"	18A13006	25	18A14005	25	18A15005	25
	1"	1 1/2"	-----	-----	18A14006	25	-----	-----
	1 1/4"	1 3/4"	18A13007	25	-----	-----	66C10812	10
	1 3/4"	2 1/4"	66C10810	10	18A14007	10	66C10813	10
	2"	3"	66C10811	10	-----	-----	66C10814	10
	2 1/2"	4 1/2"	18A13008	5	-----	-----	66C10815	5

DIN Rails

Mount terminal blocks, power supplies, relays, and other control and distribution devices on walls and other flat surfaces and in enclosures.

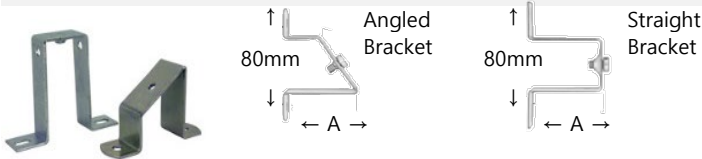
DIN Rails

Rails conform to EN 60715 and EN 50022. Zinc plated steel.



(A) Height	(B) Depth	Mounting Holes		Mfg. #	Pkg. Qty.	
		Diameter	Center-to-Center			
35mm	7.5mm	0.25"	1"	OMEGA-3F	66C11277	20
35mm	7.5mm	0.25"	1"	OMEGA-3F1	66C11279	10
35mm	15mm	0.25"	1"	OMEGA-3AF	66C11276	10

Brackets



Brackets provide extra mounting space behind the DIN rail to accommodate bulky items. They have two 0.26" diameter holes for surface mounting (screws not included). Steel with zinc plating.

Width	(A) Depth	Mounting Holes	Diameter of Holes	Mfg. #	Pkg. Qty.	
Angled Brackets						
25mm	50mm	1	0.24"	ST	66C11552	10
Straight Brackets						
20mm	25mm	1	0.24"	STS-25	66C11563	10
20mm	50mm	1	0.24"	STS-50	66C11564	10
20mm	70mm	1	0.24"	STS-70	66C11565	10
20mm	90mm	1	0.24"	STS-90	66C11566	10

Lights

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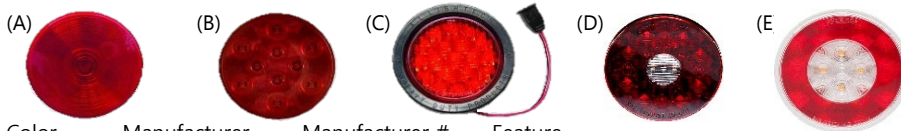


Stop/Tail/Turn Lights

4" Round Stop/Tail/Turn Lights

LEDs use approximately 85% less power and last ten times longer, approximately 100,000 hours. LEDs are unaffected by shock or vibration.

23A11029/Grote #55162 combines all standard stop/tail/turn and back-up functions into one industry standard size light. Provides high level protection against reverse voltage, over voltage and overheating. Standard 4-pin hard shell connector sold separately. 12 volt.



Color	Manufacturer	Manufacturer #	Feature	
(A) Incandescent				
Red	Optronics	ST45RB	-----	23A11001
Red	Grote	52922	-----	23A11002
Red	Optronics	ST46RB	Reflector	23A11006
Amber	Optronics	ST45AB	-----	23A11003
Clear	Optronics	BU45CB	Back Up	66C11151
White	UB Lights	SE4000W	Back Up	23A11005

(B) LED				
Red	Truck Lite	44351R	6 Diodes, Pigtail Included	23A11009
Red	Optronics	STL43RB	10 Diodes	66C11153
Red	A.L. Lightech	T01901304	Pigtail Included	66C10404
Clear	Optronics	BUL53CB	36 Diodes, Back Up	23A15007

(C) LED Light Kit (Contains: light, grommet, and harness)				
Red	A.L. Lightech	019-01-325	Light Kit, Convex Lens	23A11008
Red	A.L. Lightech	T01901305	Light Kit	66C10403

LED Stop/Tail/Turn with Back-Up Light				
(D) Red	Optronics	STL201XR	Back Up	23A11056
(E) Red	Grote	55162	Integrated Back Up	23A11029
-----	Grote	66864*	4-Pin Hard Shell Connector	23A11030

*This connector must be ordered with 23A11029/Grote #55162

Accessories

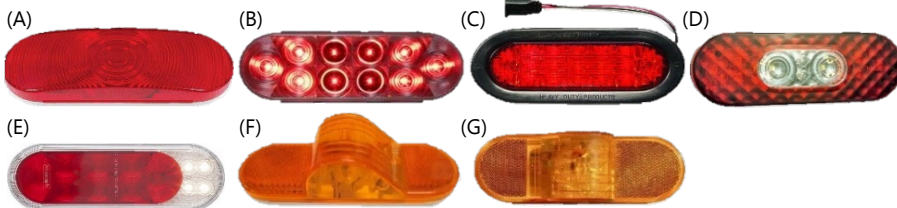


Description	
Universal Grommet	23A11013
Universal Bracket	23A11014
Straight 2-Wire Plug, for Amber, Clear	23A11015
Straight 3-Wire Plug, for Red	23A11016
90° 2-Wire Plug	66C11144
90° 3-Wire Plug, for Red	23A11017
Metri-Pack to Stop/Tail/Turn Plug	23A11018
Metri-Pack to Wire Lead	23A11019
Power Tester Tool	66C10409

6" Oval Stop/Tail/Turn Lights

LEDs use approximately 85% less power and last ten times longer, approximately 100,000 hours. LEDs are unaffected by shock or vibration.

23A11028/Grote #54682 is DOT approved.



Color	Manufacturer	Manufacturer #	Feature	
(A) Incandescent				
Red	Optronics	ST70RB	-----	23A11020
Amber	Optronics	ST70AB	-----	23A11021
White	Truck Lite	60204C	Back Up	23A13001
White	Optronics	BU70CB	Back Up	23A11022
Clear	UB Lights	SE2238C	Utility / Dome	66C11152

(B) LED (10 Diodes)				
Red	Optronics	STL72RB	-----	23A11023
Amber	Optronics	STL72AB	-----	23A11024

(C) LED Light Kit (Contains: light, grommet, and harness)				
Red	A.L. Lightech	T01903305	Light Kit	66C10406

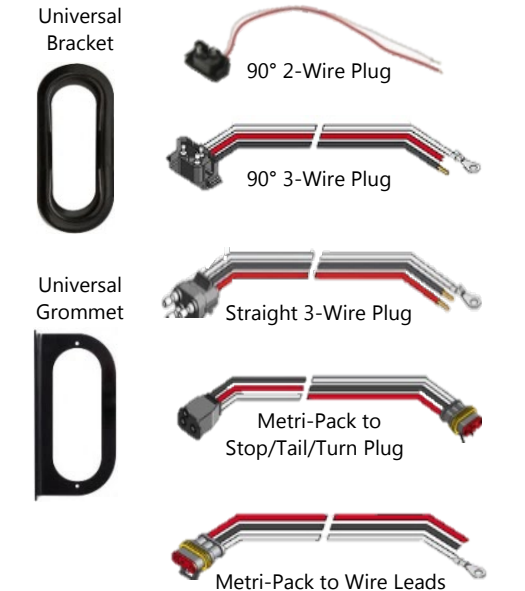
LED with Back-Up Light				
(D) Red	Grote	54682**	Back Up	23A11028**
(E) Red	Optronics	STL211XR**	Back Up	23A11055**

** For Stop/Tail/Turn suggested plug 23A11016,
for Back-up suggested plug 23A11015

(F) Incandescent Mid Trailer Turn Lights				
Amber	Optronics	ST75AB	-----	23A11038

(G) LED Mid Trailer Turn Lights				
Amber	Optronics	STL75AB	9 Diodes	66C11297

Accessories



Description	
Universal Grommet	23A11026
Universal Bracket	23A11027
Straight 2-Wire Plug, for Amber, Clear	23A11015
Straight 3-Wire Plug, for Red	23A11016
90° 2-Wire Plug	66C11144
90° 3-Wire Plug, for Red	23A11017
Metri-Pack to Stop/Tail/Turn Plug	23A11018
Metri-Pack to Wire Lead	23A11019

Stop/Tail/Turn Lights & Marker Lights

We Offer Lighting Products from the Following Vendors



RV Stop/Tail/Turn Lights

Color	Manufacturer	Mfg. #	Feature
2 Stud Mounts			
Red	Optronics	ST8RB	Right
Red	Optronics	ST9RB	Left with License Light.



Accessories

Description	1157	168
Replacement Bulb #1157 (Tail)		
Replacement Bulb #1157 (Tail)	23A11058	10
Replacement Bulb #168 (Side)	24A11027	10

Stud Mount Box Type Stop/Tail/Turn Lights

Color	Manufacturer	Mfg. #	Feature
Red	UB Lights	TL6400	Universal Combination Red Lamp with 3 Studs, Stop/Tail/Turn and Back Up, Rear Reflector & License Light.



Accessories

Description	1156	1157
Replacement Bulb #1156		
Replacement Bulb #1156	23A11057	10
Replacement Bulb #1157	23A11058	10
Replacement Lens	66C11699	1

2 1/2" Round Side Marker Lights

LEDs use approximately 85% less power and last ten times longer, approximately 100,000 hours. LEDs are unaffected by shock or vibration.



Color	Manufacturer	Manufacturer #	Feature
Standard			
Red	Optronics	MC55RB	
Red	Optronics	MC57RB	Reflector
Amber	Optronics	MC55AB	
Amber	Optronics	MC57AB	Reflector
LED (3 Diodes)			
Red	Optronics	MCL57RB	
Amber	Optronics	MCL57AB	

Accessories

Description	1156	1157
Universal Grommet		
Branch Deflector		
Universal Grommet	23A12009	
Universal (Closed Back) Grommet	23A12010	
Heavy Duty Grommet	23A12011	
Branch Deflector	23A12013	
90° 2-Wire Plug	23A12014	

2" Round Side Marker Lights

LEDs use approximately 85% less power and last ten times longer, approximately 100,000 hours. LEDs are unaffected by shock or vibration.



Color	Manufacturer	Manufacturer #
Standard		
Red	Optronics	MC53RB
Amber	Optronics	MC53AB
LED (3 Diodes)		
Red	Optronics	MCL55RB
Amber	Optronics	MCL55AB

Accessories

Description	Universal Grommet	Grommet For Use w/Bracket
Universal Grommet		
Branch Deflector		
Universal Grommet	23A12020	
Branch Deflector	23A12023	
Grommet for Use with Branch Deflector	23A12021	
90° 2-Wire Plug	23A12014	

Rectangular Side Marker Lights



Color	Manufacturer	Manufacturer #
Standard 2 1/2" x 1 3/16"		
Red	Optronics	A91RB
Amber	Optronics	A91AB
LED 2 1/2" x 1 1/4" (3 Diodes)		
Red	Optronics	AL91RB
Amber	Optronics	AL91AB

Accessories

Description	Branch Deflector	Rail Mount
Branch Deflector		
90° 2-Wire Plug		
Branch Deflector (Single Wire Included)	23A12031	
Rail Mount (Two Wire Plug Needed)	23A12032	
Chrome Base (Two Wire Plug Needed)	23A12033	
90° 2-Wire Plug	23A12014	

Marker Lights

Rectangular Side Marker Lights - 3 15/16" X 1 1/4"



Color	Manufacturer	Manufacturer #	Feature	
Standard				
Red	Optronics	MC65RB		23A12034
Amber	Optronics	MC65AB		23A12035
Clear	UB Lights	SE1040C	Utility / Dome Light	23A12036
LED (4 Diodes)				
Red	Optronics	MCL75RB		23A12037
Amber	Optronics	MCL75AB		23A12038

Accessories



Description	
Base (Single Wire/Self Grounding)	23A12039

Rectangular Side Marker Lights - 4 1/16" X 1 1/8"



Color	Manufacturer	Manufacturer #	Feature	
Red	Optronics	MC66RB	Surface Mount, 2 Wire	23A12060
Amber	Optronics	MC66AB	Surface Mount, 2 Wire	23A12061

Accessories



Description		
Replacement Bulb #193	23A12050	10

Rectangular Bullseye Side Marker Lights - 4 1/16" X 1 1/8"



Color	Manufacturer	Manufacturer #	Feature	
Red	Optronics	MC42RB	Surface Mount, 2 Wire	23A12054
Amber	Optronics	MC42AB		23A12055

Accessories



Description		
Red Lens	23A12051	1
Amber Lens	23A12052	1
Replacement Bulb #193	23A12050	10

Rectangular Micro Thin Line Side Marker Lights - 4 1/16" X 1 1/4"

LEDs use approximately 85% less power and last ten times longer, approximately 100,000 hours. LEDs are unaffected by shock or vibration.



Color	Manufacturer	Manufacturer #	Feature	
LED (4 Diodes)				
Red	Optronics	MCL63RB	Surface Mount, 2 Wire	66C11292
Amber	Optronics	MCL63AB	Surface Mount, 2 Wire	66C11291

Accessories



Description	
Base (Single Wire/Self Grounding)	23A12039

Mini LED Marker Lights - 2 1/2" X 1 1/16"



Color	Manufacturer	Manufacturer #	Feature	
Red	Optronics	MCL13R2B	Red Lens and LED	23A12041
Amber	Optronics	MCL13A2B	Amber Lens and LED	23A12042
Red	Optronics	MCL13CR2B	Clear Lens and Red LED	66C11282
Amber	Optronics	MCL13CA2B	Clear Lens and Amber LED	66C11281

3/4" Round LED Marker Lights

3/4" Round LED Marker Lights, 2-Wire



3/4" Round LED Marker and Supplemental Stop Lights, 3-Wire



The **2-wire** LED marker lights are a great space saving option. Rather than use a 2" round marker light, use this tiny but powerful DOT approved 3/4" marker light. Can be corner mounted, serving both side and front or back. (PC rated, viewable at 90°). Use bullets for ease of installation.

The **3-wire** LED add additional markers to supplement your stop/tail/turn lights in a small space. These lights are used to supplement, not replace your stop/tail/turn lights.

The **red** 3-wire LED lights have a dual function as a marker light and a supplemental stop light.

The **amber** 3-wire LED lights have a dual function as a marker light and a stop/tail/turn light.

The 2-wire and 3-wire all have 8" long wire leads and are 12 volt. Requires 3/4" mounting hole. Grommets are included.

Color	Black Grommet with Open End Wires		Stainless Steel Cover with Bullet Connectors		Stainless Steel Cover with Clear Lens and Bullet Connectors	
	(A) 2-Wire	(D) 3-Wire	(B) 2-Wire	(E) 3-Wire	(C) 2-Wire	(F) 3-Wire
Red	23A14004	23A14010	23A14005	23A14011	23A14006	23A14012
Amber	23A14001	-----	23A14002	23A14008	23A14003	23A14009

ID Light Bars, Cigarette Plug Adapters & LED Flasher Modules

We Offer Lighting Products from the Following Vendors



ID Light Bars



23A16001



23A16003



23A12068

Description	Length	Color	Material	
3 - 2 1/2" x 1 3/16" Rectangle	15"	Red	Rectangular Side Markers on a White Steel Base	23A16001
3 - 2 1/2" Round	16"	Red	Round Side Markers on a Black Steel Base	23A16003
3 - LEDs and 11 Reflectors	17"	Red	Rectangular All-Weather Plastic Housing	23A12068

Waterproof ID Bar



Side Profile

Description	Length	Color	Features	
3 - Super Bright LED Round Lights	14.5"	Red	Fully Submersible, Mounted in a Black Poly Body, 12 VDC, Mounts with #10 Screws, 9" Pigtail	66C11718

12 Volt Cigarette Plug Adapters

12 volt receptacles work with any standard 12-volt plugs. Cigarette plug adapters are sold individually.



Description		Description	
(A) Cigarette Plug Black with 3 amp Fuse	66C10607	(C) Cigarette Socket Metal Insulated with Insert Lock	66C10606
(B) Cigarette Socket Black	66C10605	(D) Cigarette Socket Black with Snap-in Design	66C11239

Standard LED to Strobe Conversion Pigtails



The **24A14023** provides power to 12 volt LED lamp assemblies. It is intended for 12 volt vehicle systems only and not intended for use with incandescent lamps.

Features:

- Turns every standard LED into a strobe on the same circuit
- Toggle between standard LEDs to strobe LEDs by adding a switch
- Maximum 30 lamps or 10 amps total
- Epoxy sealed pigtail for exterior severe duty

Wiring directions:

- 12 volt power is applied to blue wire
- Output to lamp load on red wire
- Ground for unit is white wire

Part # 24A14023

24A14024 is an electronic flasher that converts an LED lamp into a strobe lamp. It is designed for use in a flashing circuit with a vehicle flasher controlling the rate of flashes per minute.

Features:

- Converts a single LED lamp into a strobe, includes plug
- When used for 2-40 led lamps, cut-off the plug and connect to a light circuit controlled by a flasher
- Maximum 40 lamps or 15 amps total
- Fully sealed encapsulated electronics
- LED lamps only, 12 volts, not for incandescent lamps

Part # 24A14024

Strobe Lights & Snow Plow Lights

4" Round LED General Purpose Light



LEDs use approximately 85% less power and last ten times longer, approximately 100,000 hours. LEDs are unaffected by shock or vibration.

Color	Manufacturer	Manufacturer #	Feature	
Clear	Optronics	BUL43CB	10 Diodes	23A15006

Accessories



Grommet

90° 2-Wire Plug

Description	
Universal Grommet	23A11013
Straight 2-Wire Plug	23A11015
90° 2-Wire Plug	66C11144

Strobe Lights

Beacon lights are designed to create maximum visibility to reduce accidents on the road and in the workplace.

Ultra (Class 1) are commonly used on police, fire, ambulances, and road commission vehicles. They are 4 times brighter than the High (Class 2) strobes and 10 times brighter than the Medium (Class 3) strobes.

High (Class 2) are commonly used on construction, maintenance, and service vehicles. They are 2 1/2 times brighter than Medium (Class 3) strobes.

Medium (Class 3) are commonly used for indoor vehicles, such as forklifts, sweepers, and floor cleaners.

LED have superior durability, shock resistance, and energy efficiency.



	Intensity	Mount	Voltage	Amps	Size (H x D)	
(A)	High (Class 2)	Permanent, Wire Leads, Short Lens	12-30 VDC	0.4	5" x 6.5"	23A17044
(A)	High (Class 2)	Permanent, Wire Leads, Short Clear Lens	12-30 VDC	0.4	5" x 6.5"	23A17045
(B)	High (Class 2)	Permanent, Wire Leads, Tall Lens	12-30 VDC	0.4	6.7" x 6.5"	23A17043
(C)	High (Class 2)	Magnet, Cigarette Plug, Short Lens	12-30 VDC	0.4	5" x 6.5"	23A17046
(D)	High (Class 2)	Magnet, Cigarette Plug, Tall Lens	12-30 VDC	0.4	6.7" x 6.5"	23A17048
(E)	Medium (Class 3)	Permanent, Wire Leads	12-80 VDC	2.7	3.8" x 5.6"	23A17025
(F)	Medium (Class 3)	Magnet, Cigarette Plug	12-80 VDC	2.7	3.8" x 5.6"	23A17027
(G)	Low	Magnet, Uses 2 "D" Batteries	N/A	N/A	5" x 4.25"	66C11266

Halogen have replaceable bulbs.



	Intensity	Mount	Voltage	Amps	Size (H x D)	
(A)	Ultra (Class 1)	Permanent, Wire Leads	12-48 VDC	2.0	4.5" x 5.5"	23A17014
(B)	High (Class 2)	Permanent, Wire Leads	12-24 VDC	2.0	4.25" x 5.5"	23A17003
(C)	High (Class 2)	Permanent, Wire Leads	12-24 VDC	0.9	4.5" x 5.5"	23A17006
(A)	Low	Permanent, Wire Leads	12-36 VDC	0.25	3 5/8" x 4"	23A17001
(A)	Low	Permanent, Wire Leads	12-36 VDC	0.5	4" x 4"	23A17004
(D)	Low	Magnet, Cigarette Plug	12 VDC	0.5	4" x 4"	23A17005

Snow Plow Lights







The pair are packed in a Grote kit with switch, hardware, and instructions.





Style	Voltage	Amperage	Description	Bulbs	
High-Low Beam	12	5.0 / 3.5	Polycarbonate	H6545 and 1157	66C10991

Strobe Lights & Light Bars






Flashing LED Lights

Amber					
Description	Size	Voltage	Flashes/Min		
High Powered LED, No Control Box, Can be Wired to Alternate with Second Light, Grommet Included, Will fit Standard 4" Round Stop/Tail/Turn Hole	4" Diameter	12-24 VDC	18 Quad Flashes	22A35307	
High Powered LED, No Control Box, Can be Wired to Alternate with Second Light, Grommet Included, Will fit Standard Oval Stop/Tail/Turn Hole	6.25" L x 2.25" H Oval	12-24 VDC	18 Quad Flash	22A35305	
LED Flashing Light, Polycarbonate Housing Kit, Includes Grommet, Light and Pigtail, Will fit Standard Oval Stop/Tail/Turn Hole	6.5" L x 2.36" H Oval	12-24 VDC	72 Quad Flash	23A17019	
High Powered Grill-Light Features Two 6 LED Lamps with 10' of Cable Between the Two Heads, Mounting Clips for Installation, Class 2	1.25"H x 7"L x 1.25"W (each lamp size)	12 VDC	-----	66C10967	

Green and Amber

Description	Size	Voltage	Flashes/Min		
Green and Amber, LED, Recessed Grommet Mount, Includes Grommet, Light and Pigtail, Alternating or Synchronized Flash Patterns	6.5" L x 2.25" H Oval	12-24 VDC	284 Quad Flash	23A17050	
Green and Amber, LED, Ultra Thin, Clear Lens, Permanent Mount, Includes Self Adhesive Tape, 0.65 Amps, 23 Flash Patterns	4.38" L x 1.18" H	12-24 VDC	-----	23A17053	
Green, LED, Ultra Thin, Clear Lens, Permanent Mount, Includes Self Adhesive Tape, 1 Amp, 23 Flash Patterns	5.14" L x 1.18" H	12-24 VDC	-----	23A17054	
Green and Amber, LED, Ultra Thin, Clear Lens, Permanent Mount, Includes Self Adhesive Tape, 1 Amp, 23 Flash Patterns	5.14" L x 1.18" H	12-24 VDC	-----	23A17055	

LED Mini Light Bars

Amber					
Description	Size	Voltage			
Amber, LED, Mini Low-Profile, Magnetic or Permanent Mount, Class 3, 24 LEDs, 2 Amps, Cigarette Lighter Plug with On/Off Switch, 10 Flash Patterns	2.25"H x 11"L x 6.5"W	12-24 VDC		22A62548	
Amber, Magnetic Mount, LED, Mini, Ultra-Bright, Clear Dome, 8 Flash Patterns, Permanent Mounting Bar Included, Cigarette Lighter Plug with On/Off Switch	2"H x 10.9"L x 6.4"W	12-24 VDC		23A17047	
Amber, Permanent Mount, LED, Mini Low-Profile, Class 2, 80 LEDs, Clear Dome, 1.2 Amp Draw, Cycles Through Three Flash Patterns, Steel Base	2.75"H x 13.5"L x 9.5"W	12-24 VDC		22A35350	
Amber, Magnetic Mount, LED, Mini Low-Profile, Class 2, 80 LEDs, Clear Dome, 1.2 Amp Draw, Cycles Through Three Flash Patterns, Steel Base, Cigarette Lighter Plug	2.75"H x 13.5"L x 9.5"W	12-24 VDC		22A35351	
Green and Amber					
Green and Amber, LED, Magnetic or Permanent Mount Included, Clear Dome, 2 Amps, Cigarette Lighter Plug with On/Off Switch, 10 Flash Patterns	2.25"H x 11"L x 6.5"W	12-24 VDC		23A17052	

Work Lights

LED Work Lights



23A20003



23A20002



66C10416



23A17057



23A17056

Style	Voltage	Amperage	Description	
3.4" Magnetic Portable Ultra-Bright LED Work Light				
Work Light	12-24	-----	Aluminum, Rechargeable, Cigarette Plug Charger	23A20003
4.5" White LED Work Lights				
Flood	12-24	1.25	Aluminum, 1ft. Wire Lead	23A20002
5" Ultra-Bright White LED Work Lights				
Spot	12-24	2.25	Aluminum, 1ft. Wire Lead	66C10416
2" X 4" White LED Work Lights				
Work/Flood	10-30	0.54	726 Lumens, 33 Diodes	23A17057
2" White LED Round Work Lights				
Work/Flood	10-30	1.0	700 Lumens, 1/10 Watt Diode	23A17056

Sealed-Beam Work Lights



66C11155



66C11161



66C10986

Style	Voltage	Amperage	Description	Bulbs	
5" Rubber Work Lights					
Trapezoid/Work	12	2.7	Rubber	4411	66C11159
6" Rubber Work Light					
Trapezoid/Work	12	2.7	Rubber	4419	66C11161
	12		Housing Only	4419	66C11160
Accessory					
Magnetic Base, Replaces Threaded Bolt			Chrome Steel, Fits All Standard Work Lights		66C10986

Rectangular Work Lights



23A20001



66C10359



66C10362

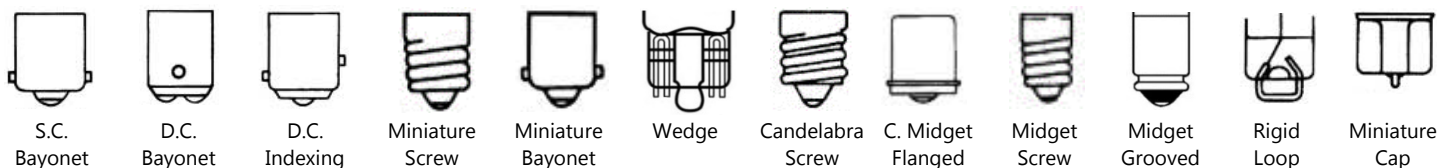


66C10356

Style	Voltage	Amperage	Description	Bulbs	
2.36 x 6.3" Low-Profile, High Intensity LED Work Light					
Spot	12-24	1.4	Aluminum, 1ft. Wire Lead		23A20001
4" x 6" Halogen Work Lights					
1 Bulb					
Trapezoid	12	4.6	High Strength Plastic	1255-H3	66C10359
Flood	12	4.6	High Strength Plastic	1255-H3	66C10360
Spot	12	4.6	High Strength Plastic	1255-H3	66C10361
2 Bulb					
Spot and Flood	12	9	High Strength Plastic	1255-H3	66C10362
3" X 5" Halogen Work Lights					
1 Bulb					
Trapezoid	12	4.6	High Strength Plastic	1255-H3	66C10356
Flood	12	4.6	High Strength Plastic	1255-H3	66C10357
Spot	12	4.6	High Strength Plastic	1255-H3	66C10358

Automotive Incandescent Bulbs

Automotive Incandescent Bulbs



Bulb Number	Volts	Base Type	Overall Length	Part Number	Pkg. Qty.	Bulb Number	Volts	Base Type	Overall Length	Part Number	Pkg. Qty.
24NA	14	Wedge	0.86"	24A11006	10	1155	13.5	S.C. Bayonet	1.44"	24A11062	10
24-PSB	24	Slide No.5	0.91"	24A11007	10	1156	12.8	S.C. Bayonet	2.00"	23A11057	10
28-PSB	28	Slide No.5	0.91"	24A11008	10	1156DC	12.8	D.C. Bayonet	2.00"	24A11064	10
37	14	Subminiature Wedge	0.80"	24A11009	10	1156NA	12.8	S.C. Bayonet	2.00"	24A11065	10
PC37	14	Printed Circuit	0.84"	24A11010	5	1157	12.8	D.C. Index	2.00"	23A11058	10
53	14	Miniature Bayonet	0.94"	24A11011	10	1157NA	12.8	D.C. Index	2.00"	24A11067	5
57	14	Miniature Bayonet	1.07"	24A11012	10	1195	12.5	S.C. Bayonet	2.25"	24A11068	1
67	13.5	S.C. Bayonet	0.81"	24A11013	10	1203	28	S.C. Bayonet	2.00"	24A11069	5
68	13.5	D.C. Bayonet	0.81"	24A11014	10	1251	28	S.C. Bayonet	1.44"	24A11070	5
70	14	Subminiature Wedge	0.80"	24A11015	10	1252	28	D.C. Bayonet	1.44"	24A11071	5
73	14	Subminiature Wedge	0.80"	24A11016	10	1445	14.4	Miniature Bayonet	0.94"	24A11072	10
74	14	Subminiature Bayonet	0.80"	24A11017	10	1450	24	Miniature Bayonet	0.94"	24A11073	5
85	28	Subminiature Wedge	0.80"	24A11018	10	1638	28	D.C. Bayonet	2.00"	24A11074	5
89	13	S.C. Bayonet	1.44"	24A11019	10	1662	28/28	D.C. Index	2.00"	24A11075	1
90	13	D.C. Bayonet	1.44"	24A11020	10	1683	28	S.C. Bayonet	2.00"	24A11076	1
93	12.8	S.C. Bayonet	2.00"	24A11021	10	1816	13	Miniature Bayonet	1.19"	24A11077	10
94	12.8	D.C. Bayonet	2.00"	24A11022	10	1819	28	Miniature Bayonet	1.19"	24A11078	10
97	13.5	S.C. Bayonet	1.44"	24A11023	10	1820L	28	Miniature Bayonet	1.19"	24A11079	10
98	13	S.C. Bayonet	1.44"	24A11024	10	1821	28	Miniature Screw	1.19"	24A11080	5
105	12.8	S.C. Bayonet	1.75"	24A11025	10	1847	6.3	Miniature Bayonet	1.19"	24A11081	10
161	14	Wedge	1.06"	24A11026	10	1850	5	Miniature Bayonet	1.19"	24A11082	1
168	14	Wedge	1.06"	24A11027	10	1864	28	Miniature Bayonet	1.19"	24A11083	10
193	14	Wedge	1.06"	24A11028	10	1866	6.3	Miniature Bayonet	1.19"	24A11084	10
194	14	Wedge	1.06"	24A11029	10	1873	28	Miniature Bayonet	1.19"	24A11085	10
194NA	14	Wedge	1.06"	24A11030	10	1889	14	Miniature Bayonet	1.19"	24A11086	10
194PC	14	Printed Circuit	1.11"	24A11031	10	1891	14	Miniature Bayonet	1.19"	24A11087	10
198	14	D.C. Index	1.25"	24A11032	10	1893	14	Miniature Bayonet	1.19"	24A11088	10
199	12.8	S.C. Bayonet	1.25"	24A11033	10	1895	14	Miniature Bayonet	1.07"	24A11089	10
211	12.8	Festoon Caps	1.75"	24A11034	10	2057	12.8	D.C. Index	2.00"	24A11090	10
211-2	12.8	End Caps	1.72"	24A11035	5	2057NA	12.8	D.C. Index	2.00"	24A11091	5
222	2.25	Miniature Screw	0.94"	24A11036	10	2233	28	S.C. Bayonet	2.00"	24A11092	1
265	28	Miniature Bayonet	0.94"	24A11037	10	2357	12.8	D.C. Index	2.00"	24A11093	10
293	14	Miniature Bayonet	1.07"	24A11038	10	2357NA	12.8	D.C. Index	2.00"	24A11094	5
382	14	S.C. Midget Flanged	0.63"	24A11039	10	3057	12.8	D.F. Wedge	2.09"	24A11095	10
400	28	Wedge	1.06"	24A11040	10	3057NA	12.8	D.F. Wedge	2.09"	24A11096	1
425	5	Miniature Screw	1.06"	24A11041	10	3156	12.8	S.F. Wedge	2.09"	24A11097	5
464	28	Wedge	1.06"	24A11042	10	3156NA	12.8	S.F. Wedge	2.09"	24A11098	5
456	28	Miniature Bayonet	1.07"	24A11043	10	3157	12.8	D.F. Wedge	2.09"	24A11099	10
561	12.8	Rigid Loop	1.72"	24A11044	10	3157NA	12.8	D.F. Wedge	2.09"	24A11100	5
623	28	S.C. Bayonet	1.44"	24A11046	5	3175	12	Festoon	1.22"	24A11101	10
624	28	D.C. Bayonet	1.44"	24A11047	5	3457	12.8/14	D.F. Wedge	2.09"	24A11103	5
755	6.3	Miniature Bayonet	1.19"	24A11048	10	3457NA	12.8/14	D.F. Wedge	2.09"	24A11104	1
757	28	Miniature Bayonet	1.19"	24A11049	10	3797	24	Miniature Bayonet	0.93"	24A11105	10
795	12.8	S.C. Bayonet	2.50"	24A11050	1	4114LL	14/14	D.F. Wedge	2.09"	24A11106	5
904	13.5	Wedge	1.49"	24A11051	10	4157LL	12.8/14	D.F. Wedge	2.09"	24A11107	5
906	13	Wedge	1.49"	24A11052	10	PR-2	2.38	S.C. Mini. Flanged	1.25"	24A11110	10
912	12.8	Wedge	1.49"	24A11053	10	PR-3	3.57	S.C. Mini. Flanged	1.50"	24A11111	10
914	4	Wedge	1.49"	24A11054	10	PR-20	8.63	S.C. Mini. Flanged	1.25"	23A17037	10
921	12.8	Wedge	1.49"	24A11055	5	11009	14.4	BA7s	0.75"	24A11112	10
922	12.8	Wedge	1.49"	24A11056	10	13050	13	SV7	1.14"	24A11114	10
1003	12.8	S.C. Bayonet	1.75"	24A11057	10	17053	12	BA9s	0.93"	24A11115	10
1004	12.8	D.C. Bayonet	1.75"	24A11058	10	78270	12	Wedge	0.80"	24A11116	1
1076	12.8	D.C. Bayonet	2.00"	24A11059	10	120-PSB	120	Slide No.5	1.10"	24A11002	1
1141	12.8	S.C. Bayonet	2.00"	24A11060	10	120-MB	120	Miniature Bayonet	1.19"	24A11003	1
1142	12.8	D.C. Bayonet	2.00"	24A11061	10	130-MB	130	Miniature Bayonet	1.19"	24A11004	5

Pigtails & Halogen Headlight Capsules











Pigtails for Automotive Incandescent Bulbs

	Use With	# of Leads	Lead Length	Part Number	Pkg. Qty.		Use With	# of Leads	Lead Length	Part Number	Pkg. Qty.
	63, 67, 89, 1156	1	12"	24A15001	10		3057, 3057A, 3157, 3157A	3	10"	24A15007	1
	1034, 1157, 2057	2	12"	24A15002	10		194, 194A, 168, 161	2	9"	24A15008	5
	194, 194A	2	12"	24A15003	5		196, 1016, 1034, 1154, 1157	2	12"	24A15009	1
	51, 53, 55, 57	1	12"	24A15004	1		Flashers and Sealed Beams	3	12"	24A15010	1
	1156	1	10"	24A15005	1		2-Prong Flashers and Sealed Beams	3	12"	24A15011	1
	1157, 195, 2057	2	8"	24A15006	1						








Halogen Headlight Capsules

Capsule Number	Volts	Watt	Overall Length	Pigtail Part #	Part Number	Pkg. Qty.	Capsule Number	Volts	Watt	Overall Length	Pigtail Part #	Part Number	Pkg. Qty.
1210/H1	12	100	2.46"	-----	24A12001	1	9003	12	60	3.62"	24A15016	24A12011	1
1210/H3	12	100	1.65"	-----	24A12002	1	9004	12.8	65	3.74"	24A15017	24A12012	1
1255-H1	12	55	2.46"	-----	24A12003	1	9005	12.8	65	3.09"	24A15018	24A12013	1
1255-H2	12	55	1.22"	-----	24A12004	1	9005XS LL	12.8	55	3.09"	24A15018	24A12013	1
1255-H3	12	55	1.65"	-----	24A12005	1	9006	12.8	65	3.09"	24A15019	24A12014	1
1255-H7	12	55	3.62"	24A15025	24A12006	1	9006XS LL	12.8	55	3.09"	24A15019	24A12014	1
1255-H11	13.2	55	2.63"	24A15022	24A12007	1	9007	12.8	65	3.74"	24A15017	24A12015	1
2470/H1	24	70	2.46"	-----	24A12008	1	9008	12.8	65	3.54"	-----	24A12017	1
2470/H3	24	70	1.65"	-----	24A12009	1	9140	12	40	3.09"	-----	24A12018	1
2470/H4	24	70	3.62"	-----	24A12010	1	9145	12	45	3.09"	-----	24A11109	1

Pigtails for Halogen Headlight Capsules

	Feature	Lead Length	Part Number	Pkg. Qty.		Feature	Lead Length	Part Number	Pkg. Qty.
	High Temp. Socket Use with H4/9003	5"	24A15016	1		Straight Socket Pigtail	10"	24A15023	1
	Headlight Hi-Lo Contact Use with 9004	9"	24A15017	1		90° Socket Pigtail Use with 800 Series	10"	24A15024	1
	Headlight High Beam Use with 9005	9"	24A15018	5		H7 Series	5"	24A15025	1
	Headlight Low Beam Use with 9006	9"	24A15019	5		H9 Series	10"	24A15026	1
	H8, H11 Series	10"	24A15022	1		9000 Series, H10, Use with H12 Series	10"	24A15027	1

Miscellaneous Pigtails

	Feature	Lead Length	Part Number	Pkg. Qty.		Feature	Lead Length	Part Number	Pkg. Qty.
	Ford Voltage Regulator	8"	24A15012	1		Continuous Pigtails with Connectors on 9" Centers	9"	24A15020	3
	Ford Regulator HD, 6 Color Coded Wire Leads	8"	24A15013	1		Mates with .157 Male Snap Plug	11"	24A15028	5
	For Alternator with Internal Voltage Regulator	6"	24A15014	1		Mates with Itself Molded 2-Wire Plug	9"	24A15029	5
	Under Dash Headlight Switch 6" Pigtail, F Series		24A15015	1					

Sealed-Beams & Flashers

Sealed-Beams



24A13017



24A13005



24A13032



24A13014



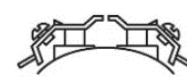
Slip On



Screw Base



3 Lug Base



Multipurpose

Sealed Beam

Part Number	Volts	Watts	Base Type	Application	PAR/Size	Diameter	Part Number	Pkg. Qty.
4000	12.8	37.5 Hi / 60 Lo	3 Lug	Auto Headlamp	PAR46	5 3/4"	24A13001	1
4350	36	60	Slip On	Work Light/Elect. Truck	PAR36	4 1/2"	24A13002	1
4405	12.8	30	Screw	Spot	PAR36	4 1/2"	24A13003	1
4411	12.8	35	Screw	Tractor	PAR36	4 1/2"	24A13004	1
4412	12.8	35	Screw	Fog/Automotive	PAR46	5 3/4"	24A13005	1
4412A	12.8	35	Screw	Fog/Automotive	PAR46	5 3/4"	24A13006	1
4416	12.8	30	Screw	Spot/Automotive	PAR36	4 1/2"	24A13008	1
4502	28	50	Screw	Military Headlamp	PAR36	4 1/2"	24A13009	1
4505	28	50	Screw	Spot Aircraft	PAR36	4 1/2"	24A13010	1
4578	28	60	2 Lug	Flood/Construction	PAR46	5 3/4"	24A13011	1
4579	28	80 Hi / 60 Lo	3 Lug	Headlamp/Construction	PAR46	5 3/4"	24A13012	1
4589	28	50	Screw	Construction	PAR36	4 1/2"	24A13013	1
4636-3	14	80	Multipurpose	Signal	PAR46	5 3/4"	24A13014	1
4651	12.8	50	2 Lug	Headlamp-Hi	100mm x 165mm	-----	24A13015	1
4912-1	12.8	50	Slip On	Tractor-Trap	100mm x 165mm	-----	24A13017	1
4921-1	12.8	100	Multipurpose	Fog/Automotive	100mm x 165mm	-----	24A13018	1
6015	12.8	60 Hi / 50 Lo	3 Lug	Headlamp Heavy duty	PAR56	7"	24A13021	1
6052	12.8	65 Hi / 55 Lo	3 Lug	Headlamp-Hi/Low	142mm x 200mm	-----	24A13022	1
7400	12.8	35	Multipurpose	Rotating Beacon	PAR36	4 1/2"	24A13023	1
H-4651	12.8	50	2 Lug	Auto-Hi Halogen	100mm x 165mm	-----	24A13024	1
H-4656	12.8	35 Hi / 35 Lo	3 Lug	Auto-Hi/Low Halogen	100mm x 165mm	-----	24A13025	1
H-4656BL	12.8	40 Hi / 55 Lo	3 Lug	Headlamp-Hi/Low-Xenon	100mm x 165mm	-----	24A13026	1
H-4701	12.8	65	2 Lug	Headlamp-Hi Halogen	92mm x 150mm	-----	24A13027	1
H-4703	12.8	55	2 Lug	Headlamp-Low Halogen	92mm x 150mm	-----	24A13028	1
H-5001	12.8	50	2 Lug	Headlamp-Hi Halogen	PAR46	5 3/4"	24A13029	1
H-5006	12.8	35 Hi / 35 Lo	2 Lug	Auto-Hi Halogen	PAR46	5 3/4"	24A13030	1
H-6024	12.8	60 Hi / 35 Lo	3 Lug	Auto-Hi/Low Halogen	PAR56	7"	24A13031	1
H-6054	12.8	65 Hi / 35 Lo	3 Lug	Auto-Hi/Low Halogen	142mm x 200mm	-----	24A13032	1
H-6054HO	12.8	65 Hi / 55 Lo	3 Lug	Auto-Hi/Low Halogen	142mm x 200mm	-----	24A13033	1
H-6545	12.8	65 Hi / 45 Lo	3 Lug	Auto-Hi/Low Halogen	100mm x 165mm	-----	24A13034	1
H-7604	12.8	50	Screw	Auto Spot Halogen	PAR36	4 1/2"	24A13035	1
H-7921-1	12.8	50	Slip On	Fog/Automotive Halogen	100mm x 165mm	-----	24A13036	1

Sealed-Beam Retaining Grommet

Sealed Beam Part Number	Application	PAR/Size	Part Number	Pkg. Qty.
920234	Sealed Beam Retaining Grommet	PAR36 (MG4)	23A11064	1



Automotive Flashers

Flashers are commonly used for turn signals and emergency lights to make lights flash rhythmically.



24A14004



24A14018



24A14018



24A14012

Flasher Part Number	Volts	Terminals	Number of Lights Controlled	Part Number	Alternate Part #	Flasher Part Number	Volts	Terminals	Number of Lights Controlled	Part Number	Alternate Part #
552	12	2	1-6	24A14002	-----	EL-13A	12	3	1-6	24A14012	24A14013
552-BUSS	12	2	2-6	31A31001	-----	EL-16	12	2	16	24A14014	24A14015
550-BUSS	12	3	2-6	31A31001	-----	EF-27	12	5	2-10	24A14016	-----
575	12	2	1-8	24A14003	-----	EF-32H	12	2	1-12	24A14017	-----
576	12	2	1-20	24A14004	-----	EF-32L	12	2	1-12	66C10705	-----
577	12	3	1-20	24A14005	-----	EF-33H	12	3	1-12	24A14018	-----
852-5X	12	2	1-10	24A14006	-----	EF-41	12	3	16	24A14019	-----
850-5X	12	3	1-10	24A14007	-----	EG-22	24	2	1-6	24A14020	-----
EL-12	12	2	1-10	24A14008	24A14009	EG-23	24	3	1-6	24A14021	24A14022
EL-13	12	3	1-10	24A14010	24A14011						

Truck Mirrors, Techniq Lights & License Plate Lights

West Coast, OEM & Economy Mirrors



All the west coast mirrors have heavy 3mm glass. Come in two sizes: 6"x16" and 7"x16". Stainless steel west coast mirrors have stainless steel bodies and end caps. Rods and hardware are plated for corrosion resistance. Sold individually.

Size	Type	Feature	
Mirrors			
6"x16"	Stainless Steel	Heated	66C11845
7"x16"	Stainless Steel	Standard	66C11195
7"x16"	Stainless Steel	Heated	66C11196
7"x16"	Stainless Steel	Heated and Light	66C11197
7"x16"	Stainless Steel	OEM / Standard	66C11181
7"x16"	Stainless Steel	OEM / Heated	66C11182

Size	Type	Feature	
Mirrors (Cont.)			
7"x16"	Stainless Steel	OEM / Heated and Light	66C11183
6"x16"	Aluminum	Economy / Standard	66C11163
Mirror Arm Assembly			
-----	Stainless Steel	-----	66C11188
-----	White	-----	66C11187

Convex Round & Rectangular Mirrors



All the convex round mirrors have 2mm thick glass. They have a nickel plated ball stud and have stainless steel hardware and "L" brackets. Sold individually.

Diameter	Mounting Hole Position	Type	
5"	Center	Stainless Steel	66C11170
6"	Center	Black	66C11171
6"	Center	Stainless Steel	66C11172
7.5"	Center	Black	66C11179
7.5"	Center	Stainless Steel	66C11178

Diameter	Mounting Hole Position	Type	
7.5"	Offset	Stainless Steel	66C11177
8.5"	Center	Black	66C11173
8.5"	Center	Stainless Steel	66C11175
8.5"	Offset	Stainless Steel	66C11176
8.5"	Center	Stainless Steel, Heated	66C11180

Document Holder



Moisture resistant document holder has a see through cover. Designed for ease of installation. Rubber gasket for moisture resistance. Sold individually.

Color	Width	Depth	
Gray	5.860"	5.220"	66C11687

Techniq Mini Side Marker Lamp

Mini Side Marker Lamp



Features

P2 Rated Mini Red Side Marker, 3/4" Mounting Hole and Includes Grommet, 12 VDC, 180° Light Output, 100,000 Hours, Low Profile Makes it Damage Resistant

66C11716

License Plate Lamp



Features

Tough Single Piece Sealed LED Lamp, Black Poly Body, 12 VDC, 50,000 Hours, Pigtail Wire, Waterproof, Vertical Place Surface Mount, DOT

66C11715

License Plate Lights

23A15001

23A15003

23A15004

23A15005



Chrome Base



90° 2-Wire Plug

Color	Manufacturer	Manufacturer #	Feature		Description	
Clear	UB Lights	LP2002	Light, Housing and Pigtail	23A15001	Chrome Base (Two Wire Plug Needed)	23A12033
Clear	UB Lights	SE1225L	Replacement Light Only	23A12028	90° 2-Wire Plug	23A12014
-----	UB Lights	LP2000	Housing Only	23A15002		
Clear	UB Lights	LP1001	Light and Chrome Housing	23A15003		
Clear	Optronics	LP56CB	Gray Surface Mount Housing, #67	23A15004		
Clear	Optronics	LPL31CB	Light, Chrome Housing and Wiring	23A15005		

Back-Up Alarms, Coiled Cords, Flat Type Connectors, Sealant & Circuit Tester

Universal Mount Back-Up Alarms

Economy

The back-up alarm has a potted circuit board. It is surface mounted and has stud connections.



Decibels	Voltage	Size	
97	12-24 VDC	3"H x 3"W	66C10493

Preco

The back-up alarm has a potted circuit board. It is surface mounted and has stud connections.



	Decibels	Voltage	Size	
(A)	87	12 VDC	2.6"H x 4"W	23A17032
(A)	97	12 VDC	2.6"H x 4"W	23A17033
(A)	97	12 VDC	2.6"H x 4"W	23A17034
(A)	97	12-24 VDC	2.6"H x 4"W	23A17035
(A)	102	12-24 VDC	2.6"H x 4"W	23A17036
(B)	97	12 VDC	4.5"H x 4.5"W	23A17040

Back-Up Alarm Switches

When it isn't possible to wire back-up alarms directly to vehicle back-up light circuit. Install adjacent to gear shift lever or linkage. Switch activates alarm when the shaft is moved.



Direction

Activates in all directions.	66C11777
Activates in one direction only.	66C11778

Corrosion & Rust Preventive Sealant

Prevents corrosion in electrical contacts, switches, and junction boxes. Clear gel with great coating abilities.

Description

4 oz. Tube, Sealant	66C10993
2 oz. Tube, Compound	66C11685
8 oz. Can, Compound	66C11684
14 oz. Cartridge, Compound	66C11686



Specialty Back-Up Alarms

Round Tail Light Type

Flush Mount alarm fits into any 4" stop/tail/turn light hole. Standard grommets & pigtail complete the low profile installation. Put the sound where it is needed - at the rear bumper and out of the mud.



Decibels	Voltage	Size	
97	12 VDC	4" Diameter	23A17038
102	12-24 VDC	4" Diameter	23A17030

Self-Adjusting Alarm

Automatically adjusts to 10 decibels above surrounding noise level. Reduces irritation for workers. Universal mounting. UL listed for electric vehicles.



Decibels	Voltage	Size	
87-112	12-24 VDC	3"H x 7"W	23A17031

Universal Buzzer

The universal buzzer, can be used for 'door ajar' warning, bus driver alert, low air pressure warning, temperature warning and several more uses.



Voltage	Size	
12	1 7/32" L x 2 1/2" W x 2 17/32" H	17A12017

Circuit Testing Tools

Description

Hand Operated
Test 6 and 12 Volt Vehicle Systems
"Ice Pick" Type
Flexible Hypalon Ground Wire,
Spring Strain Relief on Wire
to Handle
Replaceable Bulb



Part # 37A18002

LED Adhesive Mount String Lights

Great for lighting tool drawers or other internal spaces. These string lights can be used individually or together.

Color	Length	Voltage	Feature	
White	120"	12 VDC	20 Bars per strip	23A19001

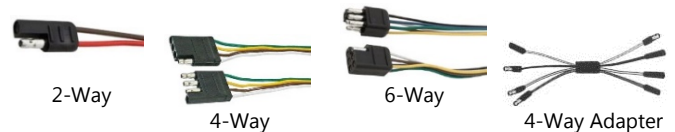


Flat Type Connectors

Length	2-Way		4-Way		6-Way	
	Male	Female	Male	Female	Male	Female
12"	-----	24A15029*	66C10862	66C10829	66C10864	66C10831
48"	-----	-----	66C10863	66C10830	-----	-----
72"	-----	-----	-----	66C10832	-----	-----

4-Way Adapter Part #66C10286

* 24A15029 has 4" leads



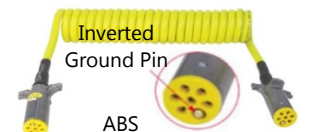
Flat type molded inline connectors are an economical way of connecting electrical systems. Wires are color coded for installation. These connectors offer weather protection.

Coiled Cords

Conductor-Gauges	Lead Length	Working Length	
Standard			
6-12 GA. & 1-10 GA.	12"	12'	66C10512
6-12 GA. & 1-10 GA.	12"	15'	66C10513
6-14 GA. & 1-12 GA.	12"	12'	66C10514
6-14 GA. & 1-12 GA.	12"	15'	66C10515
ABS			
4-12 GA. & 2-10 GA. & 1-8 GA.	12"	15'	66C10516



Standard



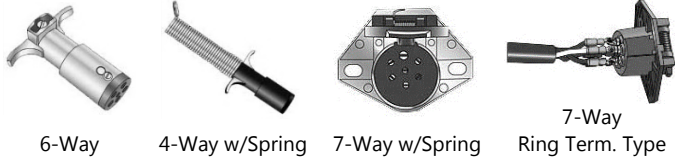
ABS

The coiled cords are designed to be flexible in extreme temperatures. They have die cast plugs with spring guards.

Use our **ABS** power coil for a second tractor/trailer connection that requires auxiliary style connectors. The inverted ground pin prevents incorrect connections.

Trailer Connectors & Junction Boxes

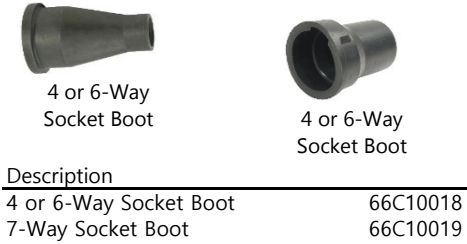
Tractor/Trailer Plugs



The 1, 2, and 3-way corresponds to the number of wires. All are made of cast zinc bodies with brass pins, except the **poly** plugs and sockets are nylon bodies filled with glass. For secondary power source use our **ISO** auxiliary plugs and sockets. Rated 6-28 volts and 40 amps of continuous duty.

	Tectran			Plug Pollak			Cole Hersee			Tectran			Receptacle Pollak			Cole Hersee		
	Mfg. #			Mfg. #			Mfg. #			Mfg. #			Mfg. #			Mfg. #		
1-Way	670-11SG	66C11228		11-852	66C12151	11042	17A12513			670-12	66C10893		11-851	66C12149	11041	17A14120		
2-Way Horizontal	670-19SG	24A31056		12-800EP	66C11230	-----	-----			670-22	24A30829		12-801EP	66C10894	-----	-----		
2-Way Vertical	670-29SG	24A31120		-----	-----	11042-05	17A12075			670-28	24A30933		-----	-----	11041-06	17A12022		
4-Way	670-41	24A26680		11-402EP	66C11231	1233	17A12521			670-42	24A26559		11-404EP	66C10895	1232	17A12085		
4-Way w/Spring	670-41SG	24A26618		11-403EP	66C11232	1253	66C10524			-----	-----		-----	-----	-----	-----		
6-Way	670-61	24A26652		11-604EP	66C11233	1236	17A14114			670-62	24A26519		11-609EP	66C10896	1235	66C10523		
6-Way w/Spring	670-61SG	24A26604		11-605EP	66C11234	1254	66C10525			-----	-----		-----	-----	-----	-----		
7-Way w/Spring	670-71SG	24A26513		11-702EP	66C11235	12092	17A12176			-----	-----		-----	-----	-----	-----		
7-Way Nylon	670P-71SG	24A31808		11-710EP	66C11238	12082	17A12524			670P-72	24A31262		11-724EP	66C10899	12080	17A12089		
7-Way ISO Auxiliary	680-E71SG	66C11236		12-811EP	66C12320	-----	-----			680-E72	66C10898		12-812EP	66C12322	-----	-----		
7-Way Ring Terminal Type				-----	-----	-----	-----			670-74	24A30536		11-785	66C10900	-----	-----		

Tractor/Trailer Plug Boots and Bracket



Description	Mfg. #
4 or 6-Way Socket Boot	66C10018
7-Way Socket Boot	66C10019

Tractor/Trailer Plug Accessories



Description	Mfg. #
7-Way Cleaning Tool	37A20010
6-Way Cleaning Tool	37A20009
4-Way Cleaning Tool	37A20008

The battery brush cleans terminals, posts, and cable connectors. It has a tapered circular wire brush and carbon steel bristles.
For cleaning the plugs and receptacles, try our plug scrub tool. There is a built in guide and the wire bristles are steel.

Tractor/Trailer and Recreational Vehicle Connector Adapters



Connects	Mfg. #
6-Way Plugs to Trailers with 7-Way Sockets	66C10352
7-Way Plugs to Trailers with 6-Way Sockets	66C10353

Pollak Recreational Vehicle Connectors



Description	Mfg. #
7-Way Male Trailer End	66C11485
7-Way Female Automobile End	66C11484

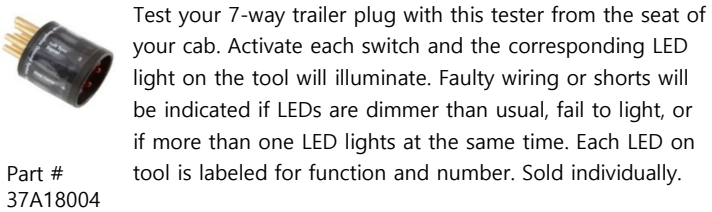
Recreational Vehicle Connector Adapters



Description	Mfg. #
7-Way Blade Style to a 4-Way Flat Connection	66C10351
7-Way Blade Style to a 6-Way Round Pin Connection	66C10354
6-Way Round Pin to a 4-Way Round Pin Connection	66C10350
7-Way Round Pin to a 4-Way Flat Connection	66C10355

Use adapters to make any connection between any trailer and any vehicle.

7-Way Plug Checker



Test your 7-way trailer plug with this tester from the seat of your cab. Activate each switch and the corresponding LED light on the tool will illuminate. Faulty wiring or shorts will be indicated if LEDs are dimmer than usual, fail to light, or if more than one LED lights at the same time. Each LED on tool is labeled for function and number. Sold individually.

Part #
37A18004

"Bull-Nosed" Circuit Breaker Socket



7-way trailer socket with circuit breakers included. Weather resistant and has isolated ground and circuit protection. Sold individually.

Breaker Amperage	Description	Mfg. #
20	Split Pin	66C10244
30	Split Pin	66C10245

Junction Boxes



Junction boxes include cover, strain relief collars, and are made of a molded composite.
Circuit breakers are not included in the 7 circuit breaker style.

Type	Size	Mfg. #
7 Terminal Style	7 3/8" x 3 3/8"	66C10232
7 Circuit Breaker Style	7 3/8" x 3 3/8"	66C10233

Surface Conditioning Discs

General Purpose Surface Conditioning Discs

General Purpose surface conditioning discs remove grind marks, rust, and coatings with ease. Made of aluminum oxide. Color coded for grade/grit. Simply match the diameter, color, and mounting style to replace an existing surface condition disc.

Made in USA - offers high quality results at an economical price.

3M's Roloc™ - offer the quality you've come to know with 3M.



Plastic Screw (TR)

Color	Grit	Grade	Made in USA	Pkg. Qty.	3M's Roloc™	Pkg. Qty.
1" Diameter						
Brown	120	Coarse	-----	----	14A11004	5
Maroon	150	Medium	-----	----	14A11005	5
Blue	320	Very Fine	-----	----	14A11006	5
Gray	600	Super Fine	-----	----	14A11007	5
1.5" Diameter						
Brown	120	Coarse	-----	----	14A11008	5
Maroon	150	Medium	-----	----	14A11009	5
Blue	320	Very Fine	-----	----	14A11010	5
Gray	600	Super Fine	-----	----	14A11011	5
2" Diameter						
Brown	120	Coarse	14A14001	25	14A11012	5
Maroon	150	Medium	14A14002	25	14A11013	5

Color	Grit	Grade	Made in USA	Pkg. Qty.	3M's Roloc™	Pkg. Qty.
2" Diameter (cont.)						
Blue	320	Very Fine	SD-2-BL	25	14A11015	5
Gray	600	Super Fine	SD-2-GR	25	14A11014	5
3" Diameter						
Brown	120	Coarse	SD-3-BR	25	14A11016	1
Maroon	150	Medium	SD-3-MAR	25	14A11017	1
Blue	320	Very Fine	SD-3-BL	25	14A11019	1
Gray	600	Super Fine	SD-3-GR	25	14A11018	1
4" Diameter						
Brown	120	Coarse	-----	----	14A11020	1
Maroon	150	Medium	-----	----	14A11021	1
Blue	320	Very Fine	-----	----	14A11023	1
Gray	600	Super Fine	-----	----	14A11022	1

Disc Holders

Surface prep disc holders offer firm support for plastic screw style (TR) discs.

Diameter	Backing Pad	Pkg. Qty.
2"	Twist-Type	14A17001
3"	Twist-Type	14A17002



General Purpose Plastic Snap (TP) and Metal Fastener (TS and TSM) Surface Conditioning Discs

3M's Roloc™ SC surface conditioning discs remove grind marks, rust, and coatings with ease. Made of aluminum oxide. Color coded for grade/grit. Simply match the diameter, color, and mounting style to replace an existing surface condition disc.



Plastic Snap (TP)



Metal Fastener (TS & TSM)

Color	Grit	Grade	Pkg. Qty.
Plastic Snap (TP)			
2" Diameter			
Brown	120	Coarse	14A11001
3" Diameter			
Brown	120	Coarse	14A11002
Blue	320	Very Fine	14A11003
TS (Metal Fastener)			
1.5" Diameter			
Brown	120	Coarse	14A11024
3" Diameter			
Brown	120	Coarse	14A11032
Maroon	150	Medium	14A11034
Blue	320	Very Fine	14A11036
Gray	600	Super Fine	14A11037

Color	Grit	Grade	Pkg. Qty.
Metal Fastener (TSM)			
1.5" Diameter			
Brown	120	Coarse	14A11025
Maroon	150	Medium	14A11026
Blue	320	Very Fine	14A11027
2" Diameter			
Brown	120	Coarse	14A11028
Maroon	150	Medium	14A11029
Blue	320	Very Fine	14A11030
3" Diameter			
Brown	120	Coarse	14A11031
Maroon	150	Medium	14A11033
Blue	320	Very Fine	14A11035

Heavy Duty Surface Conditioning Discs

The same general purpose surface conditioning disc but offers greater durability and a higher cut rate than basic Roloc™ discs. These 3M's Roloc™ SE surface conditioning discs are ideal for heavy duty deburring and finishing.



Color	Grit	Grade	Pkg. Qty.
Plastic Screw (TR)			
2" Diameter			
Brown	120	Coarse	14A12001
Maroon	150	Medium	14A12002
Green	240	Fine	14A12003
3" Diameter			
Brown	120	Coarse	14A12004
Maroon	150	Medium	14A12005
Green	240	Fine	14A12006

Super Duty Surface Conditioning Discs

These 3M's Roloc™ SL surface conditioning discs can last up to twice as long. The same general purpose surface conditioning disc but offers greater durability and a higher cut rate than basic Roloc™ discs.



Color	Grit	Grade	Pkg. Qty.
Plastic Screw (TR)			
2" Diameter			
Black	120	Coarse	14A13001
Dark Brown	120	Coarse	14A13002
Brown	120	Coarse	14A13003
Maroon	150	Medium	14A13004
3" Diameter			
Black	120	Coarse	14A13005
Dark Brown	120	Coarse	14A13006
Brown	120	Coarse	14A13007
Maroon	150	Medium	14A13008

Surface Conditioning Discs, Grinding Discs, Cut-off Wheels & Work Gloves

Abrasive Surface Conditioning Discs



3M's Roloc™ Green Corps™ surface conditioning discs remove paint, rust, and welds in collision repair. Made of aluminum oxide. Color coded for grade/grit. Simply match the diameter, color, and mounting style to replace an existing surface condition disc.

Diameter	Color	Grit	Grade	Pkg. Qty.
2"	Green	50	Coarse	14A17004 1
3"	Green	50	Coarse	14A17003 1

Grinding Discs



Often used in light welds, blending surfaces, and pre-paint surface preparation, grinding discs have a tough aluminum oxide grain and are made of heavy-duty resin fiber, with an epoxy backing.

Diameter	Grit	Pkg. Qty.
2"	24	14A15001 25
2"	36	14A15002 25
2"	50	14A15003 25
3"	24	14A15004 25
3"	36	14A15005 25
3"	50	14A15006 25

Sanding Pads



Use before applying paint and primer. Also can be used for cleaning needs. Rinses clean and won't rust. Can be used several times.

Part # 14A15007

Cut-Off Wheels



Cut-Off Wheel

Cut-off wheels are used in cutting automotive sheet metal, clamps, frame rails, and rusted bolts.

Long-life cut-off wheels last at least three times longer than standard cut-off wheels.

Use mandrels to convert any die grinder or power drill into a cutting tool.



Mandrel

Thickness	Arbor	Grit	Pkg. Qty.
-----------	-------	------	-----------

3" Diameter Cut-Off Wheels

1/32"	3/8"	54	14A16002 10
1/16"	3/8"	54	14A16001 10

Long-Life 3" Diameter Cut-Off Wheels

1/32"	3/8"	54	14A16006 6
1/16"	3/8"	54	14A16005 6

Mandrels

Mandrel (3/8" Shoulder Screw)	14A16003	1
Mandrel (1/4" and 3/8" Shoulder Screw)	14A16004	1

Work Gloves

6 Mil Nitrile Gloves



While most nitrile work gloves are 4 mil, our gloves are 50% thicker at 6 mil. The greater thickness provides superior longevity and cut resistance. Use these gloves where you need maximum dexterity and oil resistance.

Size	Color	Part Number	Pkg. Qty.
Medium	Blue	42A15001	100 Gloves
Large	Blue	42A15002	100 Gloves
X-Large	Blue	42A15003	100 Gloves
XX-Large	Blue	42A15004	100 Gloves

Foamed Nitrile Palm Grip Gloves



The foamed nitrile palm provides superior grip in regular and oily environments. They are also quite breathable. These gloves maximize your use of your finger tips for small and difficult to grip items while also protecting your hands from incidental bumps, cuts, and oils on the job.

Size	Color	Part Number	Pkg. Qty.
Medium	Blue with Black Palm	42A13002	1 pair
X-Large	Blue with Black Palm	42A13004	1 pair

Extra-Thick Rubber Palm Work Gloves



The rubber palm of this glove is extra thick, providing superior durability, abrasion, and puncture resistance. Excellent wet and dry grip. Machine washable.

Size	Color	Part Number	Pkg. Qty.
Small	Gray with Blue Palm	42A12001	1 pair
Medium	Gray with Blue Palm	42A12002	1 pair
Large	Gray with Blue Palm	42A12003	1 pair
X-Large	Gray with Blue Palm	42A12004	1 pair

Leather Work Gloves



This cowhide leather work glove is ideal for general maintenance lifting, pulling, and warehousing. Gloves protect hands from bumps and scratches.

Size	Color	Part Number	Pkg. Qty.
Medium	Gray	42A14001	1 pair
Large	Gray	42A14002	1 pair
X-Large	Gray	42A14003	1 pair

Knit Cotton Work Gloves



Lightweight and inexpensive cotton work gloves. Use these for light-duty general maintenance applications. Cheap enough that you can use them once and throw them away.

Size	Color	Part Number	Pkg. Qty.
One Size Fits Most	Gray	42A11001	12 pair

Drop Lights, Replacement Bulbs, Extension Cords & Plugs and Receptacles

Drop Lights

LED

Features:

- 3 position switch
- 360° ratcheting hook
- Super bright white
- Cordless
- Rechargeable Batteries
- A/C wall charger
- 12v/24v car charger



Part # 22A32001

Features:

- 3 position switch
- Super bright white
- 5500 Kelvin
- Cordless
- Battery Powered



Part # 22A32000

Standard

Features:

- 16 gauge wire
- Black high strength handle with push through switch
- Outlet on handle
- Metal guard



Part # 66C10153

- 25 foot cord

Part # 66C10155

- 50 foot cord

Heavy Duty Ericson Drop Lights

Features:

- 50 foot cord
- 16 gauge wire
- Switch
- Outlet on handle
- Industrial grade



Part # 66C10789

Features:

- Replacement head
- Heavy duty guard with reflector, socket, ground clip, switch on handle
- No cord



Part # 66C10788

Replacement Head Kit

Features:

- Replacement head
- Metal swing open reflector, 3-wire outlet and push switch on handle, interior socket
- No cord



Part # 66C11690

Replacement Cage

Features:

- Replacement cage
- Heavy-duty
- Chrome Plated Steel
- 360° ratcheting and locking hook



Part # 22A32002

Incandescent Rough Service Replacement Bulbs

Rough service bulbs resist vibration and are known for their durability.



Wattage	Standard	Tough Skin	Pkg. Qty.
75	66C11479	66C11480	6
100	66C11477	66C11478	6

Fluorescent Replacement Bulbs

Features:

- 13 watts, 120 volts
- Fluorescent double tube lamp
- 2 Pin Base
- 4 11/16" length



Part # 66C11698

Extension Cords

Our extension cords are good for all-weather applications down to -58°F and are UL listed for indoor/outdoor use. They are blue, 3 wire grounded, and have molded ends.



Wire Size (AWG)	Cord Length	
Single Connector		
16	25 feet	66C10152
16	50 feet	66C10154
14	25 feet	66C10131
14	50 feet	66C10132
12	15 feet	66C10059
12	25 feet	66C10060
12	50 feet	66C10061
Triple Connector		
12	50 feet	66C10062

Plugs and Receptacles

Prevent accidental disconnection with twist lock plugs.



66C10775 and 66C10777



66C11241 and 66C11242

Type	NEMA	Diameter	Male	Female
(A)				
(B)				
(C)				
(D)				

15 Amp, 125 Volt, 3-Wire

Standard	5-15	1.53"	(A)	66C10775	(A)	66C10777
Economy	5-15	1.47"	(A)	66C11241	(A)	66C11242
Twist Lock	L5-15	1.53"	(B)	66C10776	(B)	66C10778

20 Amp, 125 Volt, 3-Wire

Twist Lock	L5-20	2.12"	(C)	66C10780	(C)	66C10782
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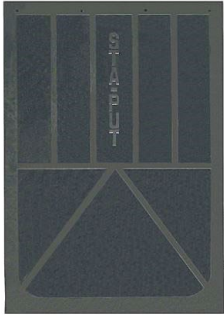
20 Amp, 250 Volt, 3-Wire

Locking	-----	2.14"	-----	(D)	66C10783
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*Many other styles available.

Mud Flaps & Mounting Hardware

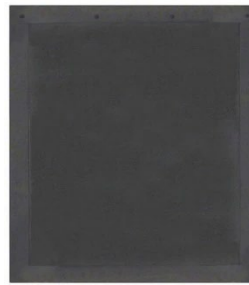
Solid Rubber Mud Flaps



- Black 1/2" thick 100% recycled rubber
- Solid rubber back repels road debris
- Resists snow and ice buildup
- Great for off-road conditions
- Resists cutting and tearing
- Ideal for all-season use
- Made in the USA

Width	Length		Pkg. Qty.
24"	24"	22A62860	1 pair
24"	30"	22A62876	1 pair
24"	36"	22A62896	1 pair

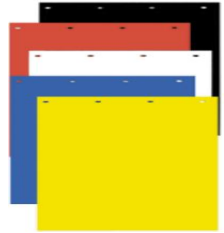
Solid Rubber Mud Flaps



- Black 3/8" thick 100% recycled rubber
- Built for long road life
- Resists snow and ice buildup
- Resists cutting and tearing
- Ideal for all-season use
- Made in the USA

Width	Length		Pkg. Qty.
24"	24"	22A62857	1 pair
24"	30"	22A62875	1 pair
24"	36"	22A62895	1 pair
24"	40"	22A62910	1 pair

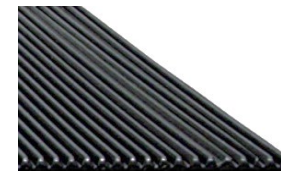
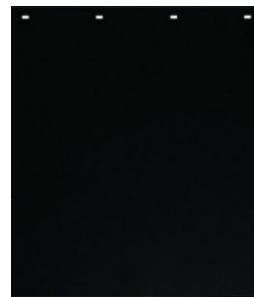
Polymer Mud Flaps



- 3/16" thick durable polymer
- Withstands subfreezing temperatures
- Resists snow and ice buildup
- Reduce impact from road debris
- Ideal for all-season use
- Made in the USA

Color	Width	Length		Pkg. Qty.
Black	24"	18"	22A66211	1 pair
Black	24"	24"	22A66539	1 pair
Black	24"	30"	22A66802	1 pair
Black	24"	36"	22A67045	1 pair
Black	24"	40"	22A67195	1 pair
Blue	24"	30"	22A67268	1 pair
Red	24"	30"	22A67269	1 pair
White	24"	18"	22A66456	1 pair
White	24"	24"	22A66779	1 pair
White	24"	30"	22A67069	1 pair
White	24"	36"	22A67413	1 pair
White	24"	40"	22A67439	1 pair
Yellow	24"	24"	22A66979	1 pair
Yellow	24"	30"	22A67267	1 pair
Yellow	24"	36"	22A67490	1 pair

Composite Mud Flaps



- Black polymer and recycled rubber
- Heavy duty, No sail design
- 1/4" or 3/8" grooves on the back
- Withstands subfreezing temperatures

Front

Back

Thickness	Width	Length		Pkg. Qty.
1/4"	20"	14"	22A65917	1 pair
1/4"	20"	18"	22A66233	1 pair
1/4"	20"	30"	22A66803	1 pair
1/4"	24"	24"	22A66775	1 pair
1/4"	24"	30"	22A67067	1 pair
1/4"	24"	36"	22A67298	1 pair
3/8"	24"	24"	22A67086	1 pair
3/8"	24"	30"	22A67371	1 pair
3/8"	24"	36"	22A67567	1 pair
3/8"	24"	42"	22A67719	1 pair

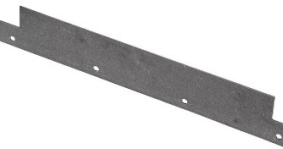
Mud Flap Bolting Plate



- Reinforces mud flap bolt holes
- Corrosion resistant
- Black powder-coated finish

Material	Width	Height		Pkg. Qty.
Steel	24"	1.5"	22A64392	1 pair

Mud Flap Mounting Plate



- Economical mounting plate
- Weld to truck or trailer body
- Easy installation

Material	Width	Height		Pkg. Qty.
Steel	24"	4"	22A65001	1 pair

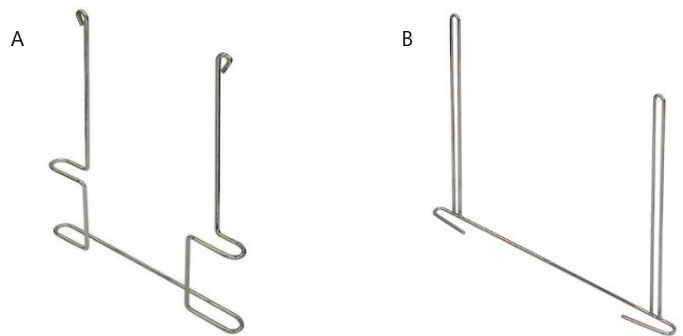
90° Mud Flap Mounting Plate



- 90° angle for easy welding
- Weld to truck or trailer body
- Economical

Material	Width	Height		Pkg. Qty.
Steel	24"	3.13"	22A65000	1 pair

Anti-Sail Brackets for Mud Flaps



- Anti-sail bracket keeps mud flaps straight and flat
- Bolt or weld to truck or trailer body
- Quick and easy mount for all 24" splash guards
- They are silver colored and sold in pairs

Material	Finish	Length	Height	Width	
(A) Steel	Galvanized	21.69"	20.84"	1.79"	22A66732
(A) Stainless Steel	Plain	21.69"	20.84"	1.79"	22A67915
(A) Steel	Chrome	26.17"	20.96"	2"	22A66655
(A) Steel	Galvanized	26.17"	20.96"	2"	22A66305
(A) Stainless Steel	Plain	26.17"	20.96"	2"	22A67954
(B) Steel	Chrome	24.50"	20.75"	---	22A66598
(B) Steel	Chrome	24.50"	20.75"	---	22A62856

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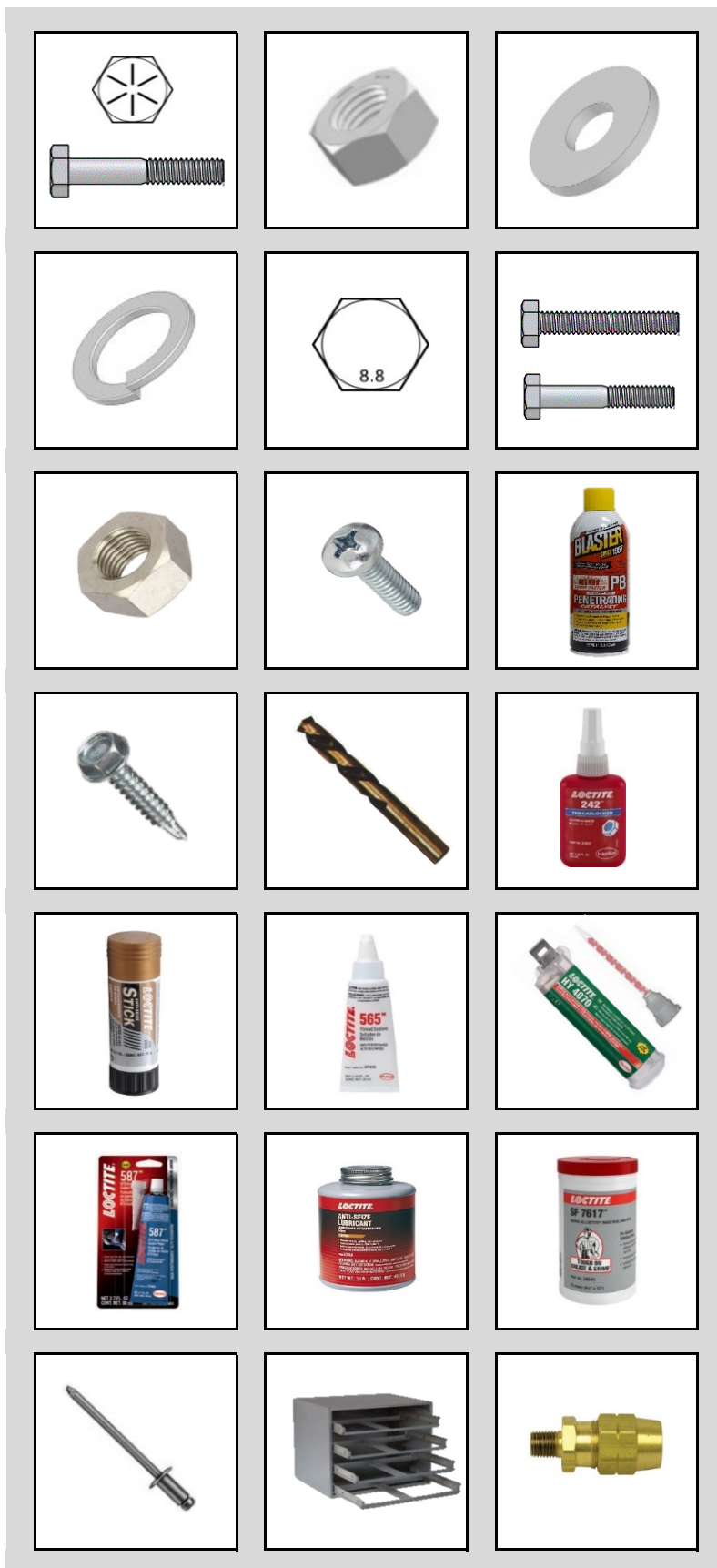
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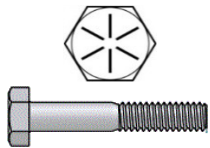
American Made Test Clips

American Made Test Clips 160



Hex Head Cap Screws

Hex Head Cap Screws — Grade 8 — Made in North America



The six ticks on the head of our steel screws signify that they are Grade 8, offering greater strength and durability than traditional Grade 5 cap screws. The zinc-yellow chromate coating offers a high level of corrosion resistance and rust protection.

The minimum thread length can be calculated using the following formula:
 Minimum Thread Length = 2 x Diameter + 1/4".

Course Thread (UNC)

Length	Pkg. Qty.	Length	Pkg. Qty.	Length	Pkg. Qty.	Length	Pkg. Qty.				
1/4"-20		3/8"-16	(Cont.)	1/2"-13	(Cont.)	3/4"-10	(Cont.)				
0.375"	41A11001	100	1.5"	41A11056	50	5.5"	41A11111	5			
0.5"	41A11002	100	1.75"	41A11057	50	6.0"	41A11112	5			
0.625"	41A11003	100	2.0"	41A11058	25	6.5"	41A11113	1			
0.75"	41A11004	100	2.25"	41A11059	25	7.0"	41A11114	1			
0.875"	41A11005	100	2.5"	41A11060	25	8.0"	41A11115	1			
1.0"	41A11006	100	2.75"	41A11061	25	9/16"-12					
1.25"	41A11007	100	3.0"	41A11062	25	1.0"	41A11116	10			
1.5"	41A11008	100	3.25"	41A11063	10	1.25"	41A11117	10			
1.75"	41A11009	50	3.5"	41A11064	10	1.5"	41A11118	10			
2.0"	41A11010	50	3.75"	41A11065	10	1.75"	41A11119	5			
2.25"	41A11011	50	4.0"	41A11066	10	2.0"	41A11120	5			
2.5"	41A11012	50	4.5"	41A11067	5	2.25"	41A11121	5			
2.75"	41A11013	25	5.0"	41A11068	5	2.5"	41A11122	5			
3.0"	41A11014	25	5.5"	41A11069	5	2.75"	41A11123	5			
3.25"	41A11015	25	6.0"	41A11070	5	3.0"	41A11124	5			
3.5"	41A11016	25	6.5"	41A11071	5	3.25"	41A11125	5			
3.75"	41A11017	25	7.0"	41A11072	5	3.5"	41A11126	5			
4.0"	41A11018	10	8.0"	41A11073	1	3.75"	41A11127	5			
4.5"	41A11019	10	7/16"-14			4.0"	41A11128	5			
5.0"	41A11020	10	0.75"	41A11074	25	4.5"	41A11129	1			
5.5"	41A11021	5	0.875"	41A11075	25	5.0"	41A11130	1			
6.0"	41A11022	5	1.0"	41A11076	25	5.5"	41A11131	1			
6.5"	41A11023	5	1.25"	41A11077	25	6.0"	41A11132	1			
7.0"	41A11024	5	1.5"	41A11078	25	6.5"	41A11133	1			
7.5"	41A11025	5	1.75"	41A11079	10	5/8"-11					
5/16"-18		2.0"	41A11080	10	1.0"	41A11134	10	3.5"	41A11188	1	
0.5"	41A11026	100	2.25"	41A11081	10	1.25"	41A11135	10	4.0"	41A11189	1
0.625"	66C11018	50	2.5"	41A11082	10	1.5"	41A11136	10	4.5"	41A11190	1
0.75"	41A11027	50	2.75"	41A11083	10	1.75"	41A11137	10	5.0"	41A11191	1
0.875"	41A11028	50	3.0"	41A11084	10	2.0"	41A11138	10	5.5"	41A11192	1
1.0"	41A11029	50	3.5"	41A11085	10	2.25"	41A11139	5	6.0"	41A11193	1
1.25"	41A11030	50	4.0"	41A11086	5	2.5"	41A11140	5	6.5"	41A11194	1
1.5"	41A11031	50	4.5"	41A11087	5	2.75"	41A11141	5	7.0"	41A11195	1
1.75"	41A11032	50	5.0"	41A11088	5	3.0"	41A11142	5	7.5"	41A11196	1
2.0"	41A11033	50	5.5"	41A11089	5	3.25"	41A11143	5	8.0"	41A11197	1
2.25"	41A11034	25	6.0"	41A11090	5	3.5"	41A11144	5	9.0"	41A11198	1
2.5"	41A11035	25	6.5"	41A11091	1	3.75"	41A11145	5	10.0"	41A11199	1
2.75"	41A11036	25	7.0"	41A11092	1	4.0"	41A11146	5	1"-8		
3.0"	41A11037	25	8.0"	41A11093	1	4.5"	41A11147	1	1.5"	41A11200	1
3.25"	41A11038	25	1/2"-13			5.0"	41A11148	1	2.0"	41A11201	1
3.5"	41A11039	10	0.75"	41A11094	25	5.5"	41A11149	1	2.25"	41A11202	1
3.75"	41A11040	10	0.875"	41A11095	25	6.0"	41A11150	1	2.5"	41A11203	1
4.0"	41A11041	10	1.0"	41A11096	25	6.5"	41A11151	1	2.75"	41A11204	1
4.5"	41A11042	10	1.25"	41A11097	25	7.0"	41A11152	1	3.0"	41A11205	1
5.0"	41A11043	5	1.5"	41A11098	25	7.5"	41A11153	1	3.25"	41A11206	1
5.5"	41A11044	5	1.75"	41A11099	10	8.0"	41A11154	1	3.5"	41A11207	1
6.0"	41A11045	5	2.0"	41A11100	10	8.5"	41A11155	1	4.0"	41A11208	1
7.0"	41A11047	5	2.25"	41A11101	10	9.0"	41A11156	1	4.5"	41A11209	1
7.5"	41A11048	1	2.5"	41A11102	10	9.5"	41A11157	1	5.0"	41A11210	1
8.0"	41A11049	1	2.75"	41A11103	10	10.0"	41A11158	1	5.5"	41A11211	1
3/8"-16		3.0"	41A11104	10	3/4"-10				6.0"	41A11212	1
0.5"	41A11050	50	3.25"	41A11105	10	1.0"	41A11159	5	6.5"	41A11213	1
0.625"	41A11051	50	3.5"	41A11106	10	1.25"	41A11160	5	7.0"	41A11214	1
0.75"	41A11052	50	3.75"	41A11107	5	1.5"	41A11161	5	7.5"	41A11215	1
0.875"	41A11053	50	4.0"	41A11108	5	1.75"	41A11162	5	8.0"	41A11216	1
1.0"	41A11054	50	4.5"	41A11109	5	2.0"	41A11163	5	8.5"	41A11217	1
1.25"	41A11055	50	5.0"	41A11110	5	2.25"	41A11164	5	9.0"	41A11218	1

(Continued on following page)

Hex Head Cap Screws

Hex Head Cap Screws — Grade 8 — Made in North America (Continued from previous page)

Course Thread (UNC) (Cont.)			Length			Length			Length		
Length		Pkg. Qty.	Length		Pkg. Qty.	Length		Pkg. Qty.	Length		Pkg. Qty.
1"-8 (Cont.)			1 1/8"-7 (Cont.)			1 1/4"-7			1 1/4"-7 (Cont.)		
9.5"	41A11219	1	4.0"	41A11224	1	2.5"	41A11230	1	6.5"	41A11236	1
10.0"	41A11220	1	4.5"	41A11225	1	3.0"	41A11231	1	7.0"	41A11237	1
1 1/8"-7			5.0"	41A11226	1	3.5"	41A11232	1	8.0"	41A11238	1
2.5"	41A11221	1	6.0"	41A11227	1	4.0"	41A11233	1	9.0"	41A11239	1
3.0"	41A11222	1	6.5"	41A11228	1	4.5"	41A11234	1	10.0"	41A11240	1
3.5"	41A11223	1	8.0"	41A11229	1	5.5"	41A11235	1			
Fine Thread (UNF)			Length			Length			Length		
Length		Pkg. Qty.	Length		Pkg. Qty.	Length		Pkg. Qty.	Length		Pkg. Qty.
1/4"-28			3/8"-24 (Cont.)			1/2"-20 (Cont.)			3/4"-16 (Cont.)		
0.5"	41A11241	100	1.5"	41A11292	10	5.5"	41A11343	5	7.5"	41A11393	1
0.625"	41A11242	100	1.75"	41A11293	10	6.0"	41A11344	1	8.0"	41A11394	1
0.75"	41A11243	100	2.0"	41A11294	10	6.5"	41A11345	1	8.5"	41A11395	1
1.0"	41A11244	50	2.25"	41A11295	10	7.0"	41A11346	1	9.0"	41A11396	1
1.25"	41A11245	50	2.5"	41A11296	10	7.5"	41A11347	1	10.0"	41A11397	1
1.5"	41A11246	25	3.0"	41A11297	10	8.0"	41A11348	1	7/8"-14		
1.75"	41A11247	25	3.25"	41A11298	10	9/16"-12			2.0"	41A11398	1
2.0"	41A11248	25	3.5"	41A11299	10	1.0"	41A11349	10	2.25"	41A11399	1
2.25"	41A11249	25	3.75"	41A11300	10	1.25"	41A11350	10	2.5"	41A11400	1
2.5"	41A11250	10	4.0"	41A11301	10	1.5"	41A11351	10	3.0"	41A11401	1
2.75"	41A11251	10	4.5"	41A11302	5	2.0"	41A11352	10	3.25"	41A11402	1
3.0"	41A11252	10	5.0"	41A11303	5	3.0"	41A11353	5	3.5"	41A11403	1
3.25"	41A11253	10	5.5"	41A11304	5	3.5"	41A11354	5	3.75"	41A11404	1
3.5"	41A11254	10	6.0"	41A11305	5	4.0"	41A11355	5	4.0"	41A11405	1
3.75"	41A11255	10	6.5"	41A11306	1	4.5"	41A11356	5	4.5"	41A11406	1
4.0"	41A11256	5	7.0"	41A11307	1	5.0"	41A11357	1	5.0"	41A11407	1
4.5"	41A11257	5	8.0"	41A11308	1	6.0"	41A11358	1	5.5"	41A11408	1
5.0"	41A11258	5	7/16"-20			5/8"-18			6.0"	41A11409	1
5.5"	41A11259	5	0.75"	41A11309	25	1.0"	41A11359	10	6.5"	41A11410	1
6.0"	41A11260	5	1.0"	41A11310	25	1.25"	41A11360	10	7.0"	41A11411	1
6.5"	41A11261	5	1.25"	41A11311	25	1.5"	41A11361	10	7.5"	41A11412	1
7.0"	41A11262	5	1.5"	41A11312	10	1.75"	41A11362	10	8.0"	41A11413	1
7.5"	41A11263	5	1.75"	41A11313	10	2.0"	41A11363	5	8.5"	41A11414	1
8.0"	41A11264	5	2.0"	41A11314	10	2.25"	41A11364	1	9.0"	41A11415	1
5/16"-24			2.25"	41A11315	10	2.5"	41A11365	1	10.0"	41A11416	1
0.5"	41A11265	50	2.5"	41A11316	10	3.0"	41A11366	1	1"-14		
0.625"	41A11266	50	2.75"	41A11317	10	3.25"	41A11367	5	4.0"	41A11417	1
0.75"	41A11267	50	3.0"	41A11318	10	3.5"	41A11368	1	5.0"	41A11418	1
0.875"	41A11268	50	3.5"	41A11319	10	3.75"	41A11369	5	6.0"	41A11419	1
1.0"	41A11269	50	4.0"	41A11320	5	4.0"	41A11370	1	7.0"	41A11420	1
1.25"	41A11270	50	5.0"	41A11321	5	4.5"	41A11371	1	8.0"	41A11421	1
1.5"	41A11271	50	5.5"	41A11322	5	5.0"	41A11372	1	9.0"	41A11422	1
1.75"	41A11272	25	6.0"	41A11323	5	6.0"	41A11373	1	10.0"	41A11423	1
2.0"	41A11273	25	6.5"	41A11324	1	6.5"	41A11374	1			
2.25"	41A11274	25	7.0"	41A11325	1	7.0"	41A11375	1	Fastener Loosener/Lubricator		
2.5"	41A11275	25	1/2"-20			7.5"	41A11376	1	Saves time by eliminating the		
2.75"	41A11276	25	0.75"	41A11326	10	8.0"	41A11377	1	need to burn off or drill out nuts		
3.0"	41A11277	25	0.875"	41A11327	10	3/4"-16			and bolts. The rust inhibitor		
3.25"	41A11278	10	1.0"	41A11328	10	1.25"	41A11378	5	quickly breaks loose surface		
3.5"	41A11279	10	1.25"	41A11329	10	1.5"	41A11379	5	tension rust and corrosion. It can		
4.0"	41A11280	10	1.5"	41A11330	10	1.75"	41A11380	5	be used in hard to reach places		
4.5"	41A11281	5	1.75"	41A11331	10	2.0"	41A11381	5	and is ideal for brake, exhaust and		
5.0"	41A11282	5	2.0"	41A11332	10	2.5"	41A11382	5	suspension system projects. The		
5.5"	41A11283	5	2.25"	41A11333	10	2.75"	41A11383	1	spray also leaves a lubricating film		
6.0"	41A11284	5	2.5"	41A11334	5	3.0"	41A11384	1	on parts to further inhibit rust.		
7.0"	41A11285	1	2.75"	41A11335	5	3.5"	41A11385	1	11oz can.		
3/8"-24			3.0"	41A11336	5	4.0"	41A11386	1			
0.5"	41A11286	25	3.25"	41A11337	5	4.5"	41A11387	1			
0.625"	41A11287	25	3.5"	41A11338	5	5.0"	41A11388	1			
0.75"	41A11288	25	3.75"	41A11339	5	5.5"	41A11389	1			
0.875"	41A11289	25	4.0"	41A11340	5	6.0"	41A11390	1			
1.0"	41A11290	25	4.5"	41A11341	5	6.5"	41A11391	1	Part #		
1.25"	41A11291	25	5.0"	41A11342	5	7.0"	H 41A11392	1	66C11302		



Hex Nuts & Washers

Hex Nuts — Grade 8



Standard These Grade 8 steel hex nuts offer greater strength and durability than their Grade 5 counterparts. The zinc-yellow chromate coating offers a high level of corrosion resistance and rust protection.



Nylon Lock The **nylon lock** insert in these hex nuts eliminates the worry of vibration loosening the nut. They're also reusable.

Size	Standard	Nylon Lock	Pkg. Qty.	Size	Standard	Nylon Lock	Pkg. Qty.
Coarse Thread (UNC)				Fine Thread (UNF)			
1/4"-20	41A12001	41A22001	100	1/4"-28	41A12017	41A22014	100
5/16"-18	41A12002	41A22002	100	5/16"-24	41A12018	41A22015	100
3/8"-16	41A12003	41A22003	100	3/8"-24	41A12019	41A22016	50
7/16"-14	41A12004	41A22004	50	7/16"-20	41A12020	41A22017	50
1/2"-13	41A12005	41A22005	50	1/2"-20	41A12021	41A22018	25
9/16"-12	41A12006	41A22006	25	9/16"-18	41A12022	41A22019	10
5/8"-11	41A12007	41A22007	10	5/8"-18	41A12023	41A22020	10
3/4"-10	41A12008	41A22008	10	3/4"-16	41A12024	41A22021	10
7/8"-9	41A12009	41A22009	10	7/8"-14	41A12025	41A22022	5
1"-8	41A12010	41A22010	10	1"-14	41A12026	41A22023	5
1 1/8"-7	41A12011	41A22011	5	1 1/8"-12	41A12027	-----	5
1 1/4"-7	41A12012	41A22012	1	1 1/4"-12	41A12028	-----	1
1 3/8"-6	41A12013	-----	1	1 3/8"-12	41A12029	-----	1
1 1/2"-6	41A12014	41A22013	1	1 1/2"-12	41A12030	-----	1
1 3/4"-5	41A12015	-----	1	1 3/4"-12	41A12031	-----	1
2"-4.5	41A12016	-----	1	2"-12	41A12032	-----	1

Split-Lock Washers



Split-lock washers decrease the likelihood that your fasteners will come unfastened by adding tension to the contact point. Made of high strength steel, with a zinc-yellow chromate finish.

Screw/Bolt Size	ID	OD	Thick.		Pkg. Qty.
1/4"	0.25"	0.49"	0.07"	41A13001	100
5/16"	0.32"	0.59"	0.09"	41A13002	100
3/8"	0.38"	0.68"	0.10"	41A13003	100
7/16"	0.44"	0.78"	0.12"	41A13004	50
1/2"	0.5"	0.87"	0.13"	41A13005	50
9/16"	0.57"	0.97"	0.14"	41A13006	25
5/8"	0.63"	1.08"	0.16"	41A13007	25
3/4"	0.75"	1.27"	0.19"	41A13008	25
7/8"	0.88"	1.46"	0.23"	41A13009	10
1"	1"	1.66"	0.26"	41A13010	10
1 1/4"	1.25"	2.04"	0.32"	41A13012	5
1 1/2"	1.5"	2.42"	0.38"	41A13013	1

Flat Washers



We offer two types of flat washers. Our premium washers are made of through-hardened **high-strength steel** and have a zinc-yellow chromate finish that provides superior corrosion and rust protection. Our more economical option is our steel washers with a **zinc-clear** coating that provides good corrosion resistance and rust protection.

SAE washers have a smaller ID and OD than their USS washer counterparts.

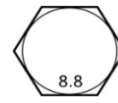
Large-diameter washers cover up oversized holes.

Screw/Bolt Size	ID	OD	Thick.		Pkg. Qty.	Screw/Bolt Size	ID	OD	Thick.		Pkg. Qty.	Screw/Bolt Size	ID	OD	Thick.		Pkg. Qty.
SAE Flat						SAE Flat (Cont.)						USS Flat (Cont.)					
High Strength, Zinc-Yellow						Zinc-Clear (Cont.)						Zinc-Clear (Cont.)					
1/4"	9/32"	5/8"	0.06"	41A14001	100	1"	1 1/16"	2"	0.12"	41A15010	50	3/4"	13/16"	2"	0.12"	41A17008	25
5/16"	11/32"	11/16"	0.06"	41A14002	100	1 1/8"	1 1/4"	2 1/4"	0.12"	41A15011	25	7/8"	15/16"	2 1/4"	0.14"	41A17009	25
3/8"	13/32"	13/16"	0.05"	41A14003	100	1 1/4"	1 3/8"	2 1/2"	0.15"	41A15012	10	1"	1 1/16"	2 1/2"	0.17"	41A17010	10
7/16"	15/32"	59/64"	0.05"	41A14004	100	1 1/2"	1 5/8"	3"	0.14"	41A15013	10	1 1/8"	1 1/4"	2 3/4"	0.16"	41A17011	10
1/2"	17/32"	1 1/16"	0.08"	41A14005	100	USS Flat						1 1/4"	1 3/8"	3"	0.16"	41A17012	10
9/16"	19/32"	1 5/32"	0.08"	41A14006	100	High Strength, Zinc-Yellow						1 3/8"	1 1/2"	3 1/4"	0.16"	41A17013	10
5/8"	21/32"	1 5/16"	0.08"	41A14007	50	1/4"	5/16"	47/64"	0.06"	41A16001	100	1 1/2"	1 5/8"	3 1/2"	0.17"	41A17014	5
3/4"	13/16"	1 1/2"	0.11"	41A14008	25	5/16"	3/8"	7/8"	0.07"	41A16002	100	1 5/8"	1 3/4"	3 3/4"	0.17"	41A17015	5
7/8"	15/16"	1 3/4"	0.13"	41A14009	25	3/8"	7/16"	1"	0.07"	41A16003	100	1 3/4"	1 7/8"	4"	0.17"	41A17016	5
1"	1 1/16"	2"	0.13"	41A14010	25	7/16"	1/2"	1 1/4"	0.08"	41A16004	100	2"	2 1/8"	4 1/2"	0.19"	41A17017	5
1 1/8"	1 1/4"	2 1/4"	0.13"	41A14011	10	1/2"	9/16"	1 3/8"	0.09"	41A16005	50	2 1/4"	2 3/8"	4 3/4"	0.21"	41A17018	5
1 1/4"	1 3/8"	2 1/2"	0.14"	41A14012	5	9/16"	5/8"	1 1/2"	0.09"	41A16006	50	2 1/2"	2 5/8"	5"	0.23"	41A17019	1
1 3/8"	1 1/2"	2 3/4"	0.13"	41A14013	5	5/8"	11/16"	1 3/4"	0.12"	41A16007	25	3"	3 1/8"	5 1/2"	0.29"	41A17020	1
1 1/2"	1 5/8"	3"	0.12"	41A14014	5	3/4"	13/16"	2"	0.12"	41A16008	10	Large-Diameter Washers — Fender					
Zinc-Clear						7/8"	15/16"	2 1/4"	0.14"	41A16009	10	Screw/Bolt					
No. 6	5/32"	3/8"	0.05"	66C11860	100	1"	1 1/16"	2 1/2"	0.13"	41A16010	10	Size	ID	OD	Thick.		Pkg. Qty.
No. 8	3/16"	7/16"	0.06"	66C11861	100	1 1/8"	1 1/4"	2 3/4"	0.13"	41A16011	5	# 10	9/32"	1"	0.06"	66C10952	100
No. 10	7/32"	1/2"	0.05"	66C11859	100	1 1/4"	1 3/8"	3"	0.14"	41A16012	5	# 10	9/32"	1 1/4"	0.06"	66C10953	100
1/4"	9/32"	5/8"	0.05"	41A15001	100	1 1/2"	1 5/8"	3 1/2"	0.17"	41A16013	5	1/4"	9/32"	1"	0.05"	66C10944	100
5/16"	11/32"	11/16"	0.07"	41A15002	100	Zinc-Clear						1/4"	9/32"	1 1/4"	0.06"	66C10946	100
3/8"	13/32"	13/16"	0.07"	41A15003	100	1/4"	5/16"	47/64"	0.06"	41A17001	100	1/4"	9/32"	1 1/2"	0.06"	66C10945	100
7/16"	15/32"	59/64"	0.05"	41A15004	100	5/16"	3/8"	7/8"	0.10"	41A17002	100	5/16"	11/32"	1 1/4"	0.07"	66C10951	100
1/2"	17/32"	1 1/16"	0.08"	41A15005	100	3/8"	7/16"	1"	0.08"	41A17003	100	5/16"	11/32"	1 1/2"	0.06"	66C10950	100
9/16"	19/32"	1 5/32"	0.09"	41A15006	100	7/16"	1/2"	1 1/4"	0.08"	41A17004	100	3/8"	13/32"	1 1/4"	0.05"	66C10948	100
5/8"	21/32"	1 5/16"	0.12"	41A15007	100	1/2"	9/16"	1 3/8"	0.11"	41A17005	50	3/8"	13/32"	1 1/2"	0.06"	66C10947	100
3/4"	13/16"	1 1/2"	0.11"	41A15008	100	9/16"	5/8"	1 1/2"	0.09"	41A17006	50	1/2"	17/32"	2"	0.06"	66C10943	100
7/8"	15/16"	1 3/4"	0.13"	41A15009	50	5/8"	11/16"	1 3/4"	0.11"	41A17007	25						

Metric Hex Head Cap Screws, Nuts & Washers

Metric Hex Head Cap Screws — Class 8.8

These metric hex head cap screws are made of heat-treated steel with a zinc-clear coating that offer good corrosion resistance and rust protection. These Class 8.8 metric screws correspond to Class 8 nuts. The **fully** threaded screws meet DIN 933, the **partially** threaded screws meet DIN 931.



Fully Threaded



Partially Threaded

Fully Threaded

Length	Pkg. Qty.	Length	Pkg. Qty.	Length	Pkg. Qty.	Length	Pkg. Qty.
M6-1		M10-1.5		M12-1.75 (Cont.)		M20-2.5	
12	41A18001	16	41A18016	50	41A18031	40	41A18045
16	41A18002	20	41A18017	25	41A18032	45	41A18046
20	41A18003	25	41A18018	25		50	41A18047
25	41A18004	30	41A18019	25	M14-2.0	55	41A18048
30	41A18005	35	41A18020	25	25	41A18033	10
35	41A18006	40	41A18021	25	30	41A18034	10
40	41A18007	45	41A18022	25	35	41A18035	10
M8-1.25		50	41A18023	25	40	41A18036	10
16	41A18008	50	41A18024	10	45	41A18037	10
20	41A18009	M12-1.75		50	41A18038	10	60
25	41A18010	20	41A18025	25	M16-2.0	65	41A18053
30	41A18011	25	41A18026	25	30	41A18039	10
35	41A18012	30	41A18027	25	35	41A18040	10
40	41A18013	35	41A18028	25	40	41A18041	10
50	41A18014	40	41A18029	25	45	41A18042	10
60	41A18015	45	41A18030	25	50	41A18043	10
					55	41A18044	5
							100
							41A18058
							1

Partially Threaded

Length	Pkg. Qty.	Length	Pkg. Qty.	Length	Pkg. Qty.	Length	Pkg. Qty.
M6-1		M10-1.5		M12-1.75 (Cont.)		M16-2.0 (Cont.)	
30	41A18059	40	41A18076	75	41A18095	80	41A18113
40	41A18060	45	41A18077	25	80	41A18096	10
45	41A18061	50	41A18078	25	90	41A18097	10
50	41A18062	60	41A18079	25	100	41A18098	10
M8-1.25		65	41A18080	10	110	41A18099	5
30	41A18063	70	41A18081	10	120	41A18100	5
35	41A18064	75	41A18082	10	M14-2.0		
40	41A18065	80	41A18083	10	50	41A18101	10
45	41A18066	90	41A18084	10	60	41A18102	10
50	41A18067	100	41A18085	10	70	41A18103	5
55	41A18068	110	41A18086	10	80	41A18104	5
60	41A18069	120	41A18087	10	90	41A18105	5
70	41A18070	M12-1.75		100	41A18106	5	M20-2.5
75	41A18071	40	41A18088	10	M16-2.0		70
80	41A18072	45	41A18089	10	50	41A18107	10
90	41A18073	50	41A18090	10	55	41A18108	10
100	41A18074	55	41A18091	10	60	41A18109	10
130	41A18129	60	41A18092	10	65	41A18110	5
M10-1.5		65	41A18093	10	70	41A18111	5
35	41A18075	70	41A18094	10	75	41A18112	5
							80
							41A18118
							5

Metric Hex Nuts — Class 8

Our metric Class 8 steel hex nuts have a zinc-clear coating which offers good corrosion resistance. These Class 8 nuts correspond to Class 8.8 metric screws. Meet DIN 934.



Size	Pkg. Qty.
M6-1.0	41A19001
M8-1.25	41A19002
M10-1.5	41A19003
M12-1.75	41A19004
M14-2.0	41A19005
M16-2.0	41A19006
M20-2.5	41A19007
M24-3.0	41A19008
M30-3.5	41A19009

Metric Washers

Made of steel with a zinc-clear coating which offers good corrosion resistance.

Flat washers meet DIN 125A.

Split-lock washers decrease the likelihood that your fasteners will come unfastened by adding tension to the contact point. Meet DIN 127B.



Flat Washers

Screw/Bolt Size	ID	OD	Thick.	Pkg. Qty.
M6	6.4	12	1.27	41A20001
M8	8.4	16	1.52	41A20002
M10	10.5	20	1.78	41A20003
M12	13	24	2.29	41A20004
M14	15	28	2.54	41A20005
M16	17	30	2.79	41A20006
M20	21	37	2.79	41A20007
M24	25	44	3.56	41A20008
M30	31	56	3.81	41A20009

Split-Lock Washers

Screw/Bolt Size	ID	OD	Thick.	Pkg. Qty.
M6	6.5	9.9	1.78	41A21001
M8	8.5	12.7	2.03	41A21002
M10	10.7	16	2.29	41A21003
M12	12.7	18	2.54	41A21004
M14	14.7	21.1	3.05	41A21005
M16	17.0	24.4	3.56	41A21006
M20	21.2	30.6	4.06	41A21007
M24	25.5	35.9	4.83	41A21008
M30	31.7	44.1	5.59	41A21009

Steel Machine Screws and Hex Nuts & Stainless Steel Hex Nuts and Washers

Steel Machine Screws



Made of heat-treated steel, these machine screws have a zinc-clear coating that offer good corrosion resistance and rust protection. They have a pan head Phillips head and are fully threaded. Meet ASME B18.6.3.

Length	Pkg. Qty.	Length	Pkg. Qty.	Length	Pkg. Qty.	Length	Pkg. Qty.
Coarse Thread (UNC)		Coarse Thread (UNC) (Cont.)		Coarse Thread (UNC) (Cont.)		Coarse Thread (UNC) (Cont.)	
#2-56		#6-32 (Cont.)		#10-24 (Cont.)		1/4"-20 (Cont.)	
0.313"	41A27002 100	2.5"	41A27027 100	1.75"	41A27050 100	3.5"	41A27089 25
0.375"	41A27003 100	3"	41A27028 100	2"	41A27051 100	4"	41A27090 50
#4-40		#8-32		2.5"		5/16"-18	
0.1875"	41A27006 100	0.25"	41A27029 100	3"	41A27052 100	0.625"	41A27091 50
0.25"	41A27007 100	0.313"	41A27030 100	3.5"	41A27053 50	0.75"	41A27092 50
0.313"	41A27008 100	0.375"	41A27031 100	4"	41A27054 50	1"	41A27093 50
0.375"	41A27009 100	0.5"	41A27032 100	#12-24		1.5"	41A27094 50
0.5"	41A27010 100	0.625"	41A27033 100	0.375"	41A27069 50	2"	41A27095 25
0.75"	41A27011 100	0.75"	41A27034 100	0.5"	41A27070 100	Fine (UNF)	
0.875"	41A27012 100	1"	41A27035 100	0.75"	41A27072 100	#10-32	
1"	41A27013 100	1.25"	41A27036 100	1"	41A27073 100	0.25"	41A27056 100
1.25"	41A27014 50	1.5"	41A27037 100	1.25"	41A27074 100	0.375"	41A27057 100
1.5"	41A27015 25	1.75"	41A27038 100	2"	41A27076 25	0.5"	41A27058 100
#6-32		2"	41A27039 100	1/4"-20		0.625"	41A27059 100
0.25"	41A27016 100	2.5"	41A27040 100	0.375"	41A27078 100	0.75"	41A27060 100
0.313"	41A27017 100	3"	41A27041 100	0.5"	41A27079 100	0.875"	41A27061 100
0.375"	41A27018 100	#10-24		0.625"	41A27080 100	1"	41A27062 100
0.5"	41A27019 100	0.25"	41A27042 100	0.75"	41A27081 100	1.25"	41A27063 100
0.625"	41A27020 100	0.375"	41A27043 100	1"	41A27082 100	1.5"	41A27064 100
0.75"	41A27021 100	0.5"	41A27044 100	1.25"	41A27083 100	1.75"	41A27065 100
1"	41A27022 100	0.625"	41A27045 100	1.5"	41A27084 50	2"	41A27066 100
1.25"	41A27023 100	0.75"	41A27046 100	1.75"	41A27085 50	2.5"	41A27067 100
1.5"	41A27024 100	1"	41A27047 100	2"	41A27086 50	3"	41A27068 50
1.75"	41A27025 100	1.25"	41A27048 100	2.5"	41A27087 50		
2"	41A27026 100	1.5"	41A27049 100	3"	41A27088 25		

Machine Screw Hex Nuts



These zinc plated steel hex nuts thread onto smaller diameter machine screws. They have a coarse internal thread. They are thinner than standard hex nuts and have a flat side to fit closer to the material surface.

Screw/Bolt Size	Pkg. Qty.
8-32	66C11226 100
10-24	66C11223 100
10-32	66C11224 100
1/2"-13	66C11225 100

Stainless Steel Hex Nuts



These hex nuts are made of 18-8 stainless steel for excellent corrosion resistance and rust protection. Coarse threads.

Screw/Bolt Size	Pkg. Qty.
1/4"-20	41A25001 100
5/16"-18	41A25002 100
3/8"-16	41A25003 100
7/16"-14	41A25004 50
1/2"-13	41A25005 25
9/16"-12	41A25006 10
5/8"-11	41A25007 10
3/4"-10	41A25008 5
7/8"-9	41A25009 5
1"-8	41A25010 1

Stainless Steel Flat Washers



These SAE & USS flat washers are made of 18-8 stainless steel for excellent corrosion resistance and rust protection. USS washers have a larger ID and OD than their SAE washer counterparts.

Screw/Bolt Size	ID	OD	Thick.	Pkg. Qty.	Screw/Bolt Size	ID	OD	Thick.	Pkg. Qty.
SAE Flat					USS Flat				
1/4"	9/32"	5/8"	0.05"	41A24001 100	1/4"	9/32"	5/8"	0.03"	41A23001 100
5/16"	11/32"	11/16"	0.05"	41A24002 100	5/16"	11/32"	11/16"	0.03"	41A23002 100
3/8"	13/32"	13/16"	0.05"	41A24003 100	3/8"	13/32"	13/16"	0.04"	41A23003 100
7/16"	15/32"	59/64"	0.05"	41A24004 50	7/16"	15/32"	59/64"	0.06"	41A23004 50
1/2"	17/32"	1 1/16"	0.07"	41A24005 50	1/2"	17/32"	1 1/16"	0.06"	41A23005 25
5/8"	21/32"	1 5/16"	0.08"	41A24006 10	9/16"	19/32"	1 5/32"	0.05"	41A23006 25
3/4"	13/16"	1 1/2"	0.11"	41A24007 10	5/8"	21/32"	1 5/16"	0.05"	41A23007 10
7/8"	15/16"	1 3/4"	0.11"	41A24008 5	3/4"	13/16"	1 1/2"	0.09"	41A23008 5
					7/8"	15/16"	1 3/4"	0.10"	41A23009 5
					1"	1 1/16"	2"	0.12"	41A23010 5

Self Drilling Screws & Drill Bits

Self Drilling Screws

Hex Washer Head Self Drilling Screws

Made of heat-treated steel, these self-drilling screws have a zinc-clear coating that offer good corrosion resistance and rust protection. They have a hex washer head and are fully threaded. Meet J78.



Length	Pkg. Qty.	Length	Pkg. Qty.	Length	Pkg. Qty.	Length	Pkg. Qty.
#6-20		#8-18 (Cont.)		#10-16 (Cont.)		#14-14	
0.375"	66C11752 100	1.25"	66C11755 100	1.5"	66C11732 100	0.75"	66C11749 50
0.5"	66C11750 100	1.5"	66C11754 100	2"	66C11735 50	1"	66C11743 50
0.75"	66C11751 100	#10-16		#12-14		1.25"	66C11745 50
#8-18		0.5"	66C11734 100	0.75"	66C11742 100	1.5"	66C11744 50
0.5"	66C11756 100	0.625"	66C11737 100	1"	66C11738 100	1.75"	66C11746 50
0.625"	66C11758 100	0.75"	66C11736 100	1.25"	66C11740 50	2"	66C11747 50
0.75"	66C11757 100	1"	66C11731 100	1.5"	66C11739 25	3"	66C11748 50
1"	66C11753 100	1.25"	66C11733 100	2"	66C11741 25		

Pan Phillips Self Drilling Screws

These self drilling screws have a phillips pan head that provides good control when driving. They are zinc plated steel and fully threaded.

Thread	Length	Color	Pkg. Qty.	Thread	Length	Color	Pkg. Qty.
Pan Head				Pan Washer Head			
#8-18	1.5"	Silver	66C11770 100	#8-18	1.5"	Silver	66C11771 100
#10-16	1"	Silver	66C11769 100	#8-18	0.5"	Black	66C11774 100
				#8-18	1"	Black	66C11772 100
				#8-18	1.5"	Black	66C11773 100



Pan Head

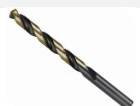


Pan Washer Head

Drill Bits

Mechanic Length

These mechanic length drill bits are made of special hi-molybdenum tool steel. They have a 135° split point to stop the drill from walking. To eliminate drill slippage, there are 3 flats on the shank. These drill bits are heat treated to 2185°F and are nitro-carburized to reduce friction, for a longer life.



Diameter	Overall Length	Flute Length	Pkg. Qty.	Diameter	Overall Length	Flute Length	Pkg. Qty.
Standard (Diameter = Shank Diameter)				Standard (Diameter = Shank Diameter) (Cont.)			
1/16"	1-7/8"	7/8"	66C10157 12	11/32"	4-1/8"	2-5/8"	66C10161 6
5/64"	2"	1"	66C10180 12	23/64"	4-3/16"	2-11/16"	66C10170 6
3/32"	2-1/4"	1-1/4"	66C10175 12	3/8"	4-1/4"	2-11/16"	66C10176 6
7/64"	2-3/8"	1-5/16"	66C10183 12	25/64"	4-5/16"	2-3/4"	66C10171 6
1/8"	2-1/2"	1-7/16"	66C10160 12	13/32"	4-3/8"	2-13/16"	66C10163 6
9/64"	2-5/8"	1-9/16"	66C10185 12	27/64"	4-7/16"	2-7/8"	66C10172 6
5/32"	2-3/4"	1-11/16"	66C10179 12	7/16"	4-1/2"	2-15/16"	66C10181 6
11/64"	2-7/8"	1-13/16"	66C10162 12	29/64"	4-5/8"	3"	66C10173 6
3/16"	3"	1-7/8"	66C10174 12	15/32"	4-3/4"	3-1/8"	66C10165 6
13/64"	3-1/8"	1-15/16"	66C10164 12	31/64"	4-7/8"	3-1/4"	66C10177 6
7/32"	3-1/4"	2"	66C10182 12	1/2"	5"	3-3/8"	66C10158 6
15/64"	3-3/8"	2-1/16"	66C10166 12	3/8" Shank			
1/4"	3-1/2"	2"	66C10159 12	27/64"	4-7/16"	2-7/8"	66C10188 6
17/64"	3-5/8"	2-1/8"	66C10167 12	7/16"	4-1/2"	2-15/16"	66C10191 6
9/32"	3-3/4"	2-1/4"	66C10184 12	29/64"	4-5/8"	3"	66C10189 6
19/64"	3-7/8"	2-3/8"	66C10168 6	15/32"	4-3/4"	3-1/8"	66C10187 6
5/16"	4"	2-1/2"	66C10178 6	31/64"	4-7/8"	3-1/4"	66C10190 6
21-64"	4-1/16"	2-9/16"	66C10169 6	1/2"	5"	3-3/8"	66C10186 6

Step

Self-starting point eliminates starter holes or punctures, even on curved surfaces. They have a double-fluted design for balanced cuts and cooler operation. 1" long shafts and titanium coating.

Size Range	Number of Hole Sizes	Size Increments	Shank Diameter	Step Thickness	Pkg. Qty.
1/8" to 1/2"	13	1/32	1/4"	1/8"	66C10273 1
1/4" to 3/4"	9	1/16	3/8"	1/8"	66C10274 1
1/4" to 7/8"	11	1/16	3/8"	1/16"	66C10275 1
1/4" to 1 1/8"	16	1/16	3/8"	1/16"	66C10276 1



Drill Bit Sets

Description	Pieces in Set	Description	Pieces in Set
By 1/64" Increments		Bolt Remover Sets / Type 420 and 190-AL	
1/16" to 1/4"	13 66C11531	Extractors 3/32" to 3/8", and Left Hand	8 66C10478
1/16" to 3/8"	21 66C11532	Drills 3/32", 1/8", 3/16" and 1/4"	
1/16" to 1/2"	29 66C11533	Extractors 3/32" to 5/8", and Left Hand	10 66C10477
3/32" to 3/8"	29 66C11534	Drills 3/32", 1/8", 3/16", 1/4" and 5/16"	



66C11534



66C11533

Rivets, Coarse and Fine Thread Dimensions & Open Storage Bins

Domed Blind Rivets



Also known as pop rivets, our **all steel** domed rivets offer added strength.

Our **all aluminum** domed rivets offer superior corrosion resistance and are ideal where minimizing weight is a concern.

Our **all stainless steel** domed rivets offer superior corrosion resistance.

Diameter	Material Thickness	All Steel		All Aluminum		All Stainless Steel	
			Pkg. Qty.		Pkg. Qty.		Pkg. Qty.
1/8"	0.032"-0.062"	41A26001	250	41A26017	100	-----	----
1/8"	0.063"-0.125"	41A26002	250	41A26018	100	41A26032	50
1/8"	0.126"-0.187"	41A26003	250	41A26019	100	41A26033	50
1/8"	0.188"-0.25"	41A26004	250	41A26020	100	41A26034	50
1/8"	0.251"-0.312"	41A26005	250	41A26021	100	-----	----
1/8"	0.313"-0.375"	41A26006	250	41A26022	100	41A26035	50
1/8"	0.376"-0.5"	41A26007	250	41A26023	100	41A26036	50
1/8"	0.501"-0.625"	41A26008	250	-----	----	-----	----
3/16"	0.020"-0.125"	41A26009	100	41A26024	100	41A26037	50
3/16"	0.188"-0.25"	41A26010	100	41A26025	100	41A26038	50
3/16"	0.251"-0.375"	41A26011	100	41A26026	100	41A26039	50
3/16"	0.376"-0.5"	41A26012	100	41A26027	100	41A26040	50
3/16"	0.501"-0.625"	41A26013	100	41A26028	100	-----	----
3/16"	0.626"-0.75"	41A26014	100	41A26029	100	-----	----
3/16"	0.751"-0.875"	41A26015	100	41A26030	100	-----	----
3/16"	0.876"-1"	41A26016	100	41A26031	100	-----	----

American National and Unified Coarse and Fine Thread Dimensions

Diameter	Threads Per Inch		Outside Diameter
	Coarse (UNC)	Fine (UNF)	
#0	-----	80	0.0600"
#1	64	72	0.0730"
#2	56	64	0.0860"
#3	48	56	0.0990"
#4	40	48	0.1120"
#5	40	44	0.1250"
#6	32	40	0.1380"
#8	32	36	0.1640"
#10	24	32	0.1900"
#12	24	28	0.2160"
1/4"	20	28	0.2500"
5/16"	18	24	0.3215"
3/8"	16	24	0.3750"
7/16"	14	20	0.4375"
1/2"	13	20	0.5000"
9/16"	12	18	0.5625"
5/8"	11	18	0.6250"

Diameter	Threads Per Inch		Outside Diameter
	Coarse (UNC)	Fine (UNF)	
3/4"	10	16	0.7500"
7/8"	9	14	0.8750"
1"	8	12	1.0000"
1 1/8"	7	12	1.1250"
1 1/4"	7	12	1.2500"
1 3/8"	6	12	1.3750"
1 1/2"	6	12	1.5000"
1 3/4"	5	-----	1.7500"
2"	4 1/2	-----	2.0000"
2 1/4"	4 1/2	-----	2.2500"
2 1/2"	4 1/2	-----	2.5000"
2 3/4"	4	-----	2.7500"
3"	4	-----	3.0000"
2 1/4"	4 1/2	-----	2.2500"
2 1/2"	4 1/2	-----	2.5000"
2 3/4"	4	-----	2.7500"
3"	4	-----	3.0000"

Open Storage Bins

Need to organize? These gray storage bins are just what you need. They are made from cold rolled steel and have a powder coat gloss finish.



(A)



(B)



(C)

Bin Openings	Overall Dimensions W x D x H	Bin Dimensions	
40	33 7/8" x 8 1/2" x 22 2/7"	32 Bins: 3 3/16" x 8 3/8" x 2 7/8"	43A11332
		8 Bins: 3 13/16" x 8 3/8" x 4"	
20	33 7/8" x 8 1/2" x 22 2/7"	16 Bins: 7 13/16" x 8 3/8" x 2 7/8"	43A11452
		4 Bins: 7 13/16" x 8 3/8" x 4 1/8"	
16	33 7/8" x 12" x 11 2/3"	16 Bins: 3 13/16" x 11 7/8" x 4"	43A11385

Boxes, Wall Cabinets & Wire Racks

Metal Boxes and Racks

All of our metal boxes, housings, and bases are constructed of steel. Welded construction with a secure metal clasp. They have a durable gray powder coat finish.

Large Boxes

Key	Number of Compartments	Dimensions	
(A)	6	18"W x 12"D x 3"H	66C11080
(B)	12	18"W x 12"D x 3"H	66C11078
(C)	24	18"W x 12"D x 3"H	66C11079
(D)	32	18"W x 12"D x 3"H	66C11099
(E)	3 Adjustable Rows	18"W x 12"D x 3"H	66C11081

Housing for Large Boxes

Key	Number of Drawers	Dimensions	
(F)	Standard	20"W x 15"D x 15 3/4"H	66C11083
(G)	Ball Bearing Easy Glide	20 3/8"W x 15 3/4"D x 14 7/8"H	43A11246

Base for Housing for Large Boxes

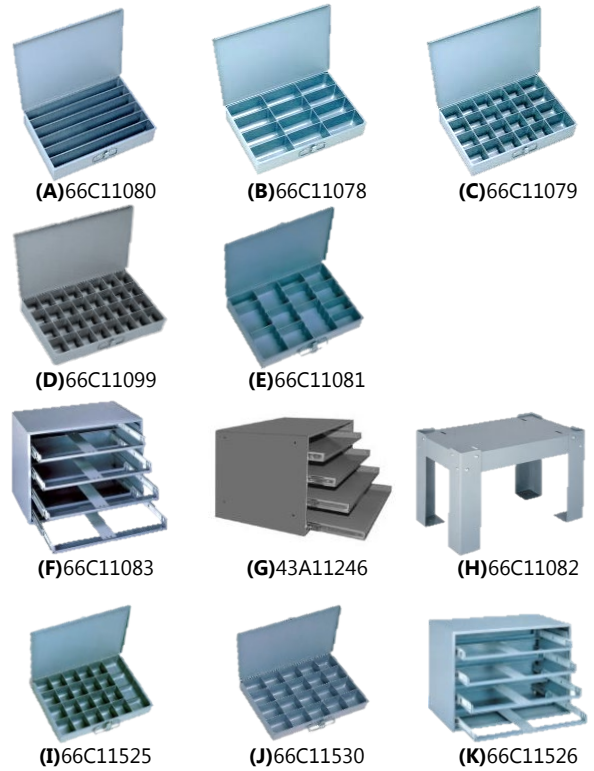
Key	Notes	Dimensions	
(H)	Use with LMB-H	20 5/8"W x 16 1/4"D x 15-5/8"H	66C11082

Small Boxes

Key	Number of Compartments	Dimensions	
(I)	21	13 3/8"W x 9 1/4"D x 2"H	66C11525
(J)	20	13 3/8"W x 9 1/4"D x 2"H	66C11530

Housing for Small Boxes

Key	Number of Drawers	Dimensions	
(K)	4 Easy Glide	15 1/4"W x 11 3/4"D x 11 1/4"H	66C11526



Plastic Boxes

Small Boxes

Key	Number of Compartments	Dimensions	
(A)	12	11"W x 6 3/4"D x 1 3/4"H	66C11488
(B)	18	11"W x 6 3/4"D x 1 3/4"H	66C11489
(C)	3 Adjustable Rows	11"W x 6 3/4"D x 1 3/4"H	66C11490
(D)	9	7"W x 3 1/4"D x 1 1/4"H	66C11327

Large Box

Key	Number of Compartments	Dimensions	
(E)	3 Adjustable Rows	13 1/8"W x 9"D x 2 5/16"H	66C11491



Modular Compartment Wall Cabinet

Compartments	Dimensions	
8 (2 Rows of 4 Bins)	11.75"W x 7.75"H x 3.25"D	66C11299
6 (2 Rows of 3 Bins)	11.75"W x 9.75"H x 4"D	66C11298
4 (1 Row of 4 Bins)	23.5" x 8" x 7"	66C11301

Complete Wall Cabinet

44 Comprised of the following sections: (2) 66C11299, (4) 66C11298, and (1) 66C11301.	23.5"W x 35.25"H x 7"D	66C11300
---	------------------------	----------



The modular wall cabinet is ideal for organizing small parts. The modular components fit together enabling custom layout of cabinet. It has clear compartment windows and is wall mountable.



Wire Racks

Easy to store different sized spools on the same rod. The punched side panels allow for quick spool changes. Gray powder coat finish.

Description	Size	
1 Rod, Handle	26 1/8"W x 6"D x 10 3/8"H	66C11856
2 Rods	26 1/8"W x 6"D x 17 7/8"H	66C11857
4 Rods	26 1/8"W x 6"D x 37 1/8"H	66C11858

Please note: Wire not included



Wire Caddy

All in one, wire caddy and storage for terminals and crimp tool. Heavy duty steel construction, gray in color. Exterior dimensions: 11"W x 7 1/2"D x 16 3/4"H.

Part # 66C11850



Loctite® Threadlockers

Loctite® Threadlockers

Think of threadlockers as insurance. Prevents loosening of threaded fasteners and equipment failures. Seals out corrosion, fills gaps between locking threads and completely seals the threaded assembly. These threadlockers cure at room temperature with the absence of air, giving you ample time to work. Fully hardens in 24 hours.



A) Purple Low Strength

Use on:

- Tiny items
- Adjustment screws
- Calibration screws
- Meters and gauges



B) Blue Medium Strength

Use on:

- Machine tools and presses
- Pumps and compressors
- Mounting bolts
- Gear boxes



C) Red High Strength

Use on:

- Heavy equipment
- Suspension bolts
- Motor and pump mounts
- Bearing cap bolts and studs



D) Red Heavy Duty

Use on:

- Frame brackets
- Suspension fasteners
- Shock absorber mounts
- Wheel studs



E) Red High Temperature

Use on:

- Camshaft sprocket bolts
- Crankshaft bolts
- Idler bearings
- Press fit filler tubes
- Ring gear and shock bolts
- Transmission input & output shaft threads



F) Green Wicking

Use on:

- Preassembled fasteners
- Instrumentation screws
- Electrical connectors
- Carburetors

Model Number	Size	Container	Mfg. Part Number	Begins to Harden	Thread Diameter	Viscosity (cP)	Torque in. lbs. Break/Prevail	Temp. Range	
(A) Purple Low Strength (Remove with hand tools)									
222™	6 ml	Tube	555339	10 min.	1/4"	1200	53/30	-65° to 300°F	42A13077
(B) Blue Medium Strength (Remove with hand tools)									
242®	0.5 ml	Ampule	230718	10 min.	3/4"	1200	110/43	-65° to 300°F	42A13011
242®	6 ml	Tube	487229	10 min.	3/4"	1200	110/43	-65° to 300°F	42A13029
242®	36 ml	Bottle	492140	10 min.	3/4"	1200	110/43	-65° to 300°F	42A13012
243™	0.5 ml	Ampule	1330255	10 min.	3/4"	2250	230/40	-65° to 300°F	42A13149
243™	6 ml	Tube	1330799	10 min.	3/4"	2250	230/40	-65° to 300°F	42A13046
243™	36 ml	Bottle	1330906	10 min.	3/4"	2250	230/40	-65° to 300°F	42A13000
249™	0.5" x 260"	Tape	2096082	30 min.	3/4"	Tape	74/47	-65° to 300°F	42A13038
(C) Red High Strength (Remove with heat and hand tools)									
262™	6 ml	Tube	487231	5 min.	3/4"	1800	189/275	-65° to 300°F	42A13049
262™	36 ml	Bottle	492141	5 min.	3/4"	1800	189/275	-65° to 300°F	42A13031
263™	0.5 ml	Ampule	1330582	5 min.	1"	400/600	290/290	-65° to 360°F	42A13006
263™	6 ml	Tube	2203451	5 min.	1"	400/600	290/290	-65° to 360°F	42A13019
263™	36 ml	Bottle	2205310	5 min.	1"	400/600	290/290	-65° to 360°F	42A43005
(D) Red Heavy Duty (Remove with heat and hand tools)									
271™	0.5 ml	Ampule	232532	10 min.	1"	500	250/275	-65° to 300°F	42A13048
271™	6 ml	Tube	487232	10 min.	1"	500	250/275	-65° to 300°F	42A13073
271™	36 ml	Bottle	492142	10 min.	1"	500	250/275	-65° to 300°F	42A13056
277™	36 ml	Bottle	555353	60 min.	1 1/2"	7000	275/275	-65° to 300°F	42A13086
(E) Red High Temperature (Remove with heat and hand tools)									
272™	6 ml	Tube	487233	60 min.	1 1/2"	9500	200/220	-65° to 450°F	42A13043
272™	36 ml	Bottle	492143	60 min.	1 1/2"	9500	200/220	-65° to 450°F	42A13014
(F) Green Wicking (Remove with heat and hand tools)									
290™	6 ml	Tube	487234	20 min.	-----	12	90/260	-65° to 300°F	42A13050
290™	36 ml	Bottle	492144	20 min.	-----	12	90/260	-65° to 300°F	42A13032
(G) Green Anaerobic Activating Primer (Use with 242® and 262® when using inactive metals)									
Klean N' Prime	127 g	Aerosol Can	494147	1 min.	-----	-----	-----	-----	42A13072

Directions

Preparation: Protect work area. Parts to be sealed must be clean and dry. Shake the product thoroughly before use.

Note: To prevent the product from clogging in the nozzle, avoid touching the bottle tip to the metal surface.

Application: For Thru Holes: Apply several drops of the product onto the bolt at the nut engagement area.

For Blind Holes: Apply several drops of the product down the internal threads to the bottom of the hole.

For Sealing: Apply a 360° bead of product to the leading threads of the male fitting, leaving the first thread free.

Force the material into the threads to thoroughly fill the voids. For bigger threads and voids, adjust product amount accordingly and apply a 360° bead of product on the female threads also.

Assemble parts and tighten as required. Sets in approximately 10 minutes and fully cures in 24 hours.

Clean-up: Clean adhesive residue immediately with a damp cloth. Cured product can be removed with a combination of soaking in methylene chloride and mechanical abrasion such as a wire brush.

Disassembly: Shear with standard hand tools and remove with methylene chloride. In rare instances where hand tools do not work because of excessive engagement length, apply localized heat to nut or bolt to approximately 482°F. Disassemble while hot.

Loctite® Threadlocker & Thread Treatment No-Drip Sticks

Loctite® Thread Treatment No-Drip Sticks Kit

Less messy, less waste. Five thread treatment sticks in one conveniently packaged kit. Their size makes them easy to carry. Store them in your tool belt, toolbox, or in your pocket.

Kit contains:

42A13023 - Red Threadlocker - 19 g

42A13007 - Blue Threadlocker - 19 g

42A13110 - White Thread Sealant - 19 g

42A13113 - Copper Anti Seize - 20 g

42A13084 - Silver Anti Seize - 20 g

Mfg. Part #576507

Kit Part #42A13057



Loctite® Threadlocker No-Drip Sticks

Won't spill or leak. Threadlocker sticks are compact and deliver the same great performance in a solid stick form. Can be used overhead and on tough applications. Consistency is semi-solid paste. Cures at room temperature.

A) Blue Medium Strength

Use on:

- Valve cover bolts
- Water pump bolts
- Oil pan bolts
- Drive shaft bolts
- Carburetor studs
- Rocker arm adjustment nuts



B) Red High Strength

Use on:

- Assembly with air tools
- Cylinder block bolts
- Ring gear bolts
- Transmission shaft bolts



C) White Thread Sealant

Use on:

- Stainless steel fitting
- Oil and coolant lines
- Fuel fittings
- Rear axle fill plug
- Intake manifold switches
- Head bolts into through holes



Model Name	Size	Container	Mfg. Part #	Begins to Harden	For Max. Thread Diameter	Torque in. lbs. Break/Prevail	Temp. Range	
(A) Blue Medium Strength (Remove with hand tools)								
Blue Stick	9 g	Stick	506166	5 min.	3/4"	226/36	-65° to 300°F	42A13013
Blue Stick	19 g	Stick	504466	5 min.	3/4"	226/36	-65° to 300°F	42A13007
(B) Red High Strength (Remove with heat and hand tools)								
Red Stick	9 g	Stick	511537	5 min.	3/4"	311/83	-65° to 300°F	42A13034
Red Stick	19 g	Stick	511535	5 min.	3/4"	311/83	-65° to 300°F	42A13023
(C) White Thread Sealant (Remove with hand tools)								
Thread Sealant Stick	19 g	Stick	504467	5 min.	3 1/8"	-----	-65° to 300°F	42A13110

Loctite® Treatment No-Drip Sticks

Treatment sticks can be used overhead and on tough applications and won't spill or leak. Their size makes them easy to carry.

A) Copper Anti Seize

Use on:

- Spark plug threads installed in aluminum
- Exhaust manifold bolts
- Engine bolts
- Thermostat housing bolts
- Oxygen sensors
- Battery cable connections



B) Silver Anti Seize

Use on:

- Spark plugs, cylinder head and exhaust head bolts for easy removal



C) Green Bearing Mount

Use on:

- Bushings and bearings
- Oil Seals
- Ring gear bolts
- Differential lock pins
- Axle bearings
- Water and power steering pump pulleys



D) Purple Hi-Tack Gasket Dressing

Use on:

- Valve covers
- Fuel pumps
- Carburetors
- Manifold gaskets



E) Blue Disc Brake Quiet

Use on:

- Disc brake pads and apply at the point of contact with caliper



Model Name	Size	Container	Mfg. Part #	Begins to Harden	Temp. Range	
(A) Copper Anti Seize	20 g	Stick	504468	-----	-20° to 1800°F	42A13113
(B) Silver Anti Seize	20 g	Stick	504469	-----	-20° to 1600°F	42A13084
(C) Green Bearing Mount	9 g	Stick	640482	30 min.	-65° to 400°F	42A13036
(D) Purple Hi-Tack Gasket Dressing	19 g	Stick	640807	5 min.	-65° to 300°F	42A13078
(E) Blue Disc Brake Quiet	19 g	Stick	718808	-----	-----	42A13118

Loctite® Sealants & Retaining Compounds

Loctite® Sealants

Thread sealants seal, secure and fill the space between threaded metal on pipes and fittings. Prevent leakage created by vibration loosening, solvent evaporation, tape shredding and damaged threads. When they are fully cured, they seal to most piping systems burst strengths.



A) White High Performance

Use on:
Stainless steel fittings
Oil and coolant lines
Rear axle fill plug
Intake manifold switches
Oil psi-sending units
and sensors



B) Purple Pneumatic/Hydraulic

Use on:
Hydraulic line fittings
Brake Fittings
Transmission fluid fitting
PTO fittings



C) White High Temperature

Use on:
Fuel fittings
Oil and coolant lines
Oil psi-sending units
and sensors
Brake and power
steering fittings



D) White Fitting Sealant with PTFE

Use on:
Air conditioning fittings
Temperature sending fittings
Hydraulic fittings



E) Black Head Bolt and Water Jacket

Use on:
Head bolts
Water pump bolts
Thermostat housings
Intake manifold bolts
Temperature sensors

Model Name	Size	Container	Mfg. Part #	Temp. Range	Viscosity (cP)	Seals to Operating Pressure	
(A) White High Performance							
565™	50 ml	Tube	483629	-65° to 300°F	300,000	10,000 psi	42A13055
Thread Sealant Stick	19 g	Stick	504467	-65° to 300°F	Semisolid Paste	10,000 psi	42A13110
(B) Purple Pneumatic/Hydraulic							
545™	36 ml	Bottle	492145	-65° to 300°F	14,000	10,000 psi	42A13009
(C) White High Temperature							
592™	6 ml	Tube	483631	-65° to 400°F	350,000	10,000 psi	42A13116
592™	50 ml	Tube	483630	-65° to 400°F	350,000	10,000 psi	42A13112
(D) White Fitting Sealant with PTFE							
Thread Sealant with PTFE	470 ml	Brush Top	1533652	-65° to 300°F	Paste	50,000 psi	42A13147
(E) Black Head Bolt and Water Jacket							
Head Bolt & Water Jacket	50 ml	Tube	1158514	-65° to 300°F	Paste	10,000 psi	42A13092

Loctite® Retaining Compounds

Bond non-threaded, round metal parts with retaining compounds. Will restore fit to worn parts, secure new parts and prevent wear. Fully cures in 24 hours at room temperature.



A) Silver Medium-Strength for Worn Parts

Use on:
Refitting worn shafts
Coupling and form-in-place shims
loose set screws and other worn parts
Repairing worn keyways



B) Green High Strength

Use on:
Cylinder sleeves
Valve guides and seats
Bearings and bushings
Liner assemblies



C) Green High-Strength for Oily Loose Fitting Parts

Use on:
Replaces set screws
Clamp rings
Snap rings
Wheel bearings



D) Green High Temperature

Use on:
Axle bearings
Water and power
steering pump pulleys
Ring gear bolts

Model Name	Size	Container	Mfg. Part #	Begins to Harden	Max. Gap Size Filled	Viscosity (cP)	Shear Strength (psi)	Temp. Range	
(A) Silver Medium-Strength for Worn Parts									
660™	50 ml	Bottle	555337	20 min.	0.020"	250,000	3335	-65° to 300°F	42A13076
(B) Green High Strength									
640™	6 ml	Tube	487235	1 hour	0.007"	600	3000	-65° to 400°F	42A13039
640™	36 ml	Bottle	492147	1 hour	0.007"	600	3000	-65° to 400°F	42A13016
(C) Green High-Strength for Oily Loose Fitting Parts									
680™ Bearing Mount	36 ml	Bottle	2301375	10 min.	0.015"	1250	2800	-65° to 300°F	42A13067
(D) Green High Temperature									
620™	36 ml	Bottle	555338	30 min.	0.015"	8500	3800	-65° to 450°F	42A13085
Bearing Mount Stick	9 g	Stick	640482	30 min.	0.005"	Semisolid	3800	-65° to 400°F	42A13036

Loctite® Adhesives

Loctite® adhesives offer a large range of quality products for all of your repair needs.

Speed and Strength

Loctite® Universal Bonder 4070™ is a powerful combination of speed and strength. When time is limited, it will handle almost any repair challenge. Able to quickly bond with high strength performance.



Model Name	Size	Container	Mfr. Part Number	Color	Begins to Bond	Bonds To	
Universal Bonder 4070™	11 ml	Syringe	2264448	Clear	5 min.	Interior molding clips, dash components, consoles, molded bumpers, body, trim repair	42A13088

Quick Sets

Model Name	Size	Container	Mfr. Part Number	Color	Begins to Bond	Bonds To	
(A) Epoxy Quick Set	25 ml	Syringe	1395391	Yellow	5-10 min.	Auto trim, ornaments, tools, emblems, knobs	42A13138
(B) Quick Set Auto Epoxy	25 ml	Syringe	1326795	Clear	4-6 min.	Auto trim, ornaments, tools, emblems, knobs	42A13137
(C) Epoxy Plastic Bonder	25 ml	Syringe	1363118	Yellow	20-25 min.	PVC, polycarbonate, acrylic, nylon, Mylar® phenolic, aluminum and stainless steel	42A13140
(D) Epoxy Mixer In Cups	(10) 4 ml	Cups	494151	Grey	5-15 min.	Loose trim, broken grilles, loose door glass channels, casting cracks and holes	42A13094
(E) 3092™ Kit	10 ml	Syringe	1807961	Clear	3.5 min.	Interior molding clips, body, molded bumpers, dash components, consoles, trim repair	42A13114
(F) 3092™ Mixer Nozzles	(5) 2.5 mm	Nozzle	1434516	-----	-----	-----	42A13020

Instant Adhesives

Model Name	Size	Container	Color	Begins to Bond	Bonds To	
(A) Quick Gel Super Glue	2 ml	Tube	Clear	30 sec.	Metal, most plastics, vinyl, rubber, ceramics, paper, wood, textiles, leather, synthetic leather, cork, and chipboard	42A13135
(B) Super Glue Professional	20 ml	Bottle	Clear	45 sec.	Figurines, costume jewelry, metal car parts, toys, cameras, wiper blades, rubber seals and O-rings	42A13044
(C) Super Glue Longneck	5 ml	Bottle	Clear	10 sec.	Ceramic, rubber, paper, metal, china, wood and most plastics	42A13143
(D) Super Glue Liquid	2 ml	Tube	Clear	10 sec.	Metal, laminated plastics, rubber, ceramics, china	42A13142
(E) Super Glue Liquid Instant	2 ml	Tube	Yellow	30 sec.	Metal, laminated plastics, rubber, ceramics, vinyl	42A13129
(F) Super Glue Ultra Liquid Control	4 ml	Applicator	Clear	15 sec.	Figurines, costume jewelry, metal car parts, toys, cameras, wiper blades, rubber seals and O-rings	42A13132
(G) Super Glue Ultra Gel Control	4 ml	Applicator	Clear	1 min.	Leather, fabric, cork, paper, cardboard, wood, chipboard, metal, ceramic, rubber, polystyrene, hard plastics and PVC	42A13105
(H) Super Glue Gel	4 ml	Applicator	Clear	30 sec.	Metal, most plastics, rubber, vinyl, paper, wood, textiles, ceramics, china and cork	42A13045

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Loctite® Adhesives

Loctite® Adhesives (Continued from previous page)

RTV Silicone

RTV (room temperature vulcanizing) silicone begins curing as soon as it is exposed to the moisture in the air. RTV silicone is 100% pure, as where extended silicone sealant is diluted.



RTV Black Silicone
300 ml cartridge



RTV Clear Silicone
80 ml tube



RTV Green Silicone
190 ml aerosol

Model Name	Size	Container	Mfg. Part Number	Color	Begins to Bond
Bonds to Windshields, Door Frames, Electrical Connections, Seams and Roofs, Vinyl Tops, Weather-Stripping					
RTV Black Silicone	80 ml	Tube	491979	Black	30 min.
RTV Black Silicone	190 ml	Aerosol	2093365	Black	30 min.
RTV Black Silicone	300 ml	Cartridge	495315	Black	30 min.
RTV Clear Silicone	80 ml	Tube	491981	Clear	30 min.
RTV Clear Silicone	190 ml	Aerosol	2093366	Clear	30 min.
RTV Clear Silicone	300 ml	Aerosol	495076	Clear	30 min.
Bonds to Glass, Metal, Plastic, Fabric, Vinyl, and Weather Stripping					
RTV Green Silicone	190 ml	Aerosol	1165866	Green	30 min.

Specialty



A



B



C



D



E



F



G

Model Name	Size	Container	Mfr. Part Number	Color	Begins to Bond	Bonds To
(A) Fast Cure Marine	88 ml	Tube	2020627	White	30 min.	Teak and other woods, fiberglass, vinyl, glass, FRP,
(B) Fast Cure Marine	300 ml	Cartridge	2016891	White	30 min.	metal, gel coat, polycarbonate and most plastics
(C) Marine Epoxy	25 ml	Syringe	1919324	White	2 hours	Glass, metal, wood and other common materials
(D) Power Grab for Construction	300 ml	Cartridge	2137678	White	20 min.	Wood, drywall, plaster, ceramic, concrete, brick, masonry, foam board, cork and aluminum
(E) Stik 'N Seal® Extreme Conditions	17 ml	Tube	1360784	Clear	5 min.	Glass, mirror, leather, fabric, many plastics, wood, ceramic, concrete, and metal-to-porous surfaces
(F) Oil and Gas Resistant	30 ml	Tube	1252795	Clear	30 min.	Rubber, plastic, auto/van carpeting, weather-stripping and metal-to-porous surfaces
(G) All Purpose Spray	350 g	Aerosol	2383478	White	20 min.	Foam, carpet, fabrics, plastics, rubber, lightweight porous, and non-porous surfaces

Cold Weld



The LocWeld™ bonding compound is a two-part adhesive and filler system, that eliminates the need for welding or brazing. It can be drilled, sanded, painted or filed when it is cured.

Model Name	Size	Container	Mfr. Part Number	Color	Begins to Bond	Bonds To
LocWeld™ Bonding Compound	(2) 28 ml	Tubes	495540	Multi	15 min.	Aluminum, steel, brass, bronze, castings and stampings

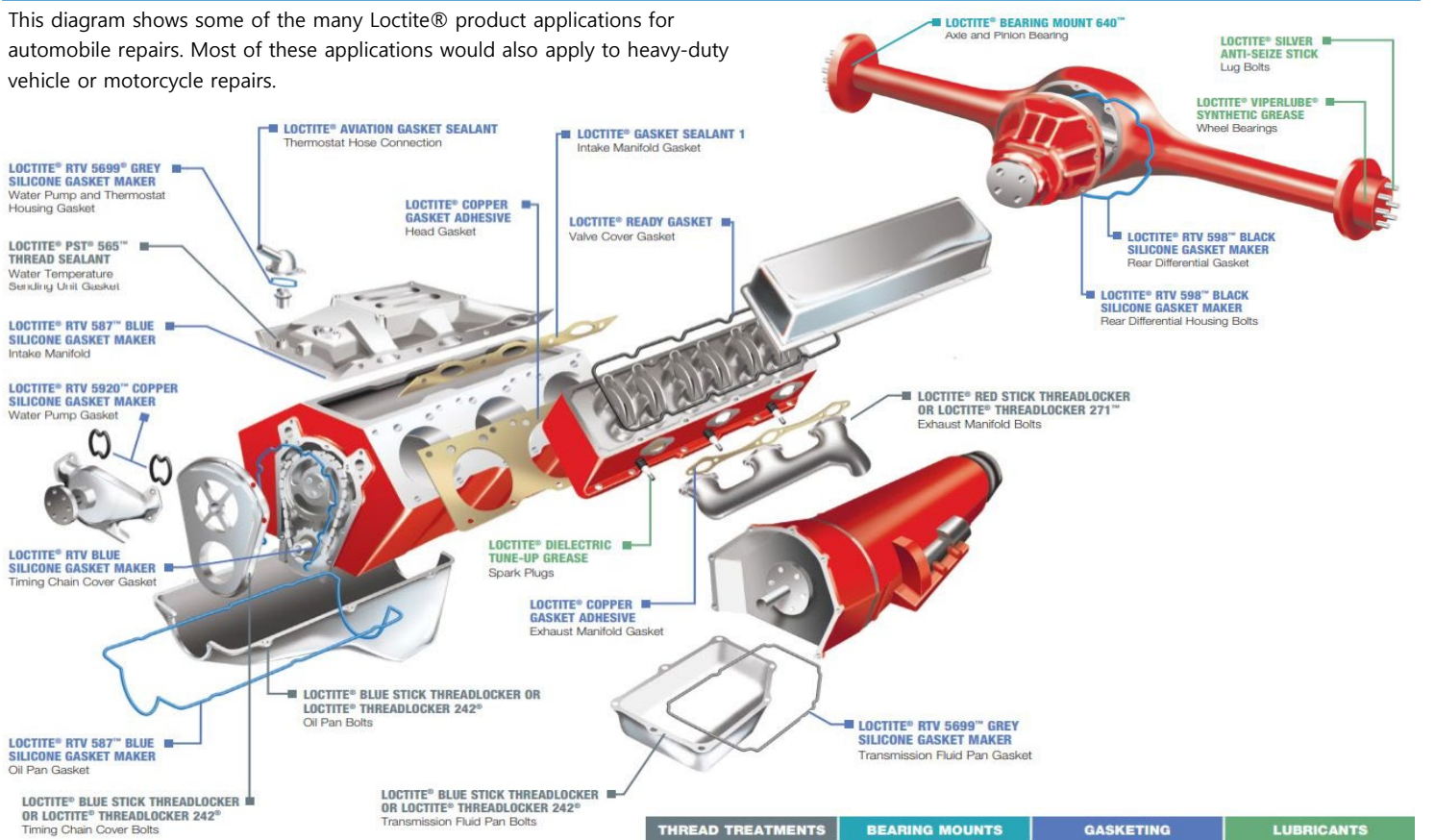
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Loctite® Adhesives (Continued from previous page)
Automotive

Model Name	Size	Container	Mfr. Part Number	Color	Begins to Bond	Bonds To	
(A) Windshield Repair Kit	33 ml	Syringe	504465	Clear	30 min.	Bulls eye cracks and chips in windshields or other laminated glass windows	42A13136
(B) Rearview Mirror Kit	0.9 ml	Kit	487865	Clear	15 min.	Mounting rearview mirrors to windshields.	42A13120
(C) Rearview Mirror Kit	6 ml	Kit	236971	Clear	15 min.		42A13119
(D) Rearview Mirror Kit	24 ml	Kit	228190	Amber	15 min.		42A13115
(E) Rear Window Defogger	1.4 ml	Kit	194080	Clear	15 min.	Rear window defogger tabs.	42A13071
(F) Professional Performance	382 g	Aerosol	2267077	Clear	5-10 min.	Trim work, marine applications, upholstery work, van/motor home conversions, kick plates and signage. Bonds wood, metal, acrylic, carpet, laminate, polypropylene, and PVC.	42A13062
(G) Black Weatherstrip	147 ml	Tube	495541	Black	5-15 min.	Cut gaskets, auto/van carpeting, door and trunk moldings, vinyl tops, fabric-backed vinyl upholstery, headliners	42A13103
(H) Yellow Weatherstrip	147 ml	Tube	782111	Yellow	5-15 min.	All types of weather-stripping, auto/van carpeting, door and trunk moldings	42A13122

LOCTITE® product applications automobile engine

This diagram shows some of the many Loctite® product applications for automobile repairs. Most of these applications would also apply to heavy-duty vehicle or motorcycle repairs.



Loctite® Gasketing

Loctite® Gasketing

Form-in-place gasket makers, gasket dressing and general purpose sealants offer precise, reliable sealing. RTV (room temperature vulcanizing) high performance gasket makers remain flexible and withstands high vibrations. Sensor safe gasket makers will not foul oxygen sensors when fully cured. Ready gaskets make a gasket in one minute and out performs pre-cut gaskets.

High Performance Silicone Gasket Makers



A) 587™ RTV Blue
Use on:
Valve covers
Oil pans
Timing covers
Transmission pans
Differential covers



B) 598™ RTV Black
Use on:
Valve covers
Oil pans
Timing covers
Transmission pans
Intake manifold
end seals



C) 5699™ RTV Grey
Use on:
Valve covers
Oil pans
Timing covers
Water pumps
Thermostat
housings



D) 5920™ RTV Copper
Use on:
Valve covers
Oil pans
Timing covers
Water pumps
Thermostat
housings

Model Name	Size	Container	Mfg. Part Number	Tack free in	Temp. Range	
(A) 587™ RTV Blue						
RTV Blue Silicone	80 ml	Tube	491983	30 min.	-75° to 500°F	42A13035
RTV Blue Silicone	190 ml	Aerosol	2093364	30 min.	-75° to 500°F	42A13066
RTV Blue Silicone	300 ml	Cartridge	495072	30 min.	-75° to 500°F	42A13040
(B) 598™ RTV Black						
RTV Black Silicone	11 ml	Tube	492006	30 min.	-75° to 625°F	42A13022
RTV Black Silicone	80 ml	Tube	491985	30 min.	-75° to 625°F	42A13021
RTV Black Silicone	190 ml	Aerosol	2093362	30 min.	-75° to 625°F	42A13054
RTV Black Silicone	8.75 oz.	Can	495075	30 min.	-75° to 625°F	42A13017
RTV Black Silicone	300 ml	Cartridge	495074	30 min.	-75° to 625°F	42A13033
(C) 5699™ RTV Grey						
RTV Grey Silicone	80 ml	Tube	491982	30 min.	-75° to 625°F	42A13025
RTV Grey Silicone	190 ml	Aerosol	2093363	30 min.	-75° to 625°F	42A13059
(D) 5920™ RTV Copper						
RTV Copper Silicone Flange Sealant	80 ml	Tube	491984	60 min.	-65° to 700°F	42A13008

Sensor Safe Silicone Gasket Makers



A



B



C



D



E



F



G

Model Name	Size	Container	Mfg. Part Number	Tack free in	Temp. Range	
(A) RTV Blue	80 ml	Tube	491980	30 min.	-65° to 500°F	42A13083
(B) RTV Blue	190 ml	Aerosol	2093361	30 min.	-65° to 500°F	42A13082
(C) RTV Blue	300 ml	Cartridge	495318	30 min.	-65° to 500°F	42A13091
(D) RTV Red - High Temperature	80 ml	Tube	492001	30 min.	-75° to 600°F	42A13030
(E) RTV Red - High Temperature	214 ml	Can	495538	30 min.	-75° to 600°F	42A13053
(F) RTV Red - High Temperature	190 g	Aerosol	2093360	30 min.	-75° to 600°F	42A13037
(G) RTV Red - High Temperature	300 ml	Cartridge	495536	30 min.	-75° to 600°F	42A13041

Ready Gasket



A



B



C



D

Model Name	Size	Container	Mfg. Part Number	Seals in	Temp. Range	
(A) Ready Gasket Black	147 ml	Cartridge	494150	1 min.	-75° to 500°F	42A13107
(B) Ready Gasket Black	190 ml	Aerosol	743914	1 min.	-75° to 500°F	42A13117
(C) Ready Gasket Black	207 g	Aerosol	494148	1 min.	-75° to 500°F	42A13106
(D) Ready Gasket Black	300 ml	Cartridge	2207527	1 min.	-75° to 500°F	42A13133

(Continued on following page)

Loctite® Gasketing (Continued from previous page)
Gasket Makers



Model Name	Size	Container	Mfg. Part Number	With Primer Seals in	Without Primer Seals in	Temp. Range	
(A) Black High Flex Sealant	50 ml	Tube	555354	-----	1 min.	-75° to 500°F	42A13026
(B) 515™ Purple	50 ml	Tube	555352	0.25-2 hours	1-12 hours	-65° to 300°F	42A13095
(C) 518™ Red	6 ml	Tube	2203452	0.50-4 hours	4-24 hours	-65° to 300°F	42A13075
(D) 518™ Red	50 ml	Tube	2096059	0.50-4 hours	4-24 hours	-65° to 300°F	42A13070
(E) 518™ Red	300 ml	Cartridge	2096063	0.50-4 hours	4-24 hours	-65° to 300°F	42A13074
(F) 518™ Red	25 ml	Pen	2392164	0.50-4 hours	4-24 hours	-65° to 300°F	42A13047

Gasket Dressing

A) Hi-Tack Purple Stick

Use on:
 Valve covers
 Fuel pumps
 Carburetors
 Manifold gaskets



B) Hi-Tack Red Sealant Aerosol

Use on:
 Valve covers
 Fuel pumps
 Carburetors
 Manifold gaskets



C) Hi-Tack Red Sealant Brush top

Use on:
 Valve covers
 Fuel pumps
 Carburetors
 Manifold gaskets



D) Aviation Red/Brown Sealant

Use on:
 Close-fitting machined surfaces
 Hoses
 Solid gaskets



E) Copper Adhesive High Temperature

Use on:
 Cylinder head gaskets
 Carburetor gaskets
 Exhaust manifold gaskets
 High-temperature applications



F) Black Sealant 2 Non-Hardening

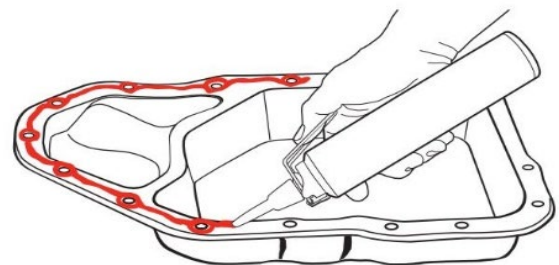
Use on:
 Valve covers gaskets
 Oil pan gaskets



Model Name	Size	Container	Mfg. Part Number	Sets in	Temp. Range	
(A) Hi-Tack Purple Stick	19 g	Stick	640807	5 min.	-65° to 300°F	42A13078
(B) Hi-Tack Red Sealant	266 g	Aerosol	497091	5 min.	-65° to 500°F	42A13130
(C) Hi-Tack Red Sealant	473 ml	Brush Top	1537776	5 min.	-65° to 500°F	42A13150
(D) Aviation Red/Brown Sealant	473 ml	Brush Top	1525607	12 hours	-65° to 400°F	42A13148
(E) Copper Adhesive High Temperature	266 g	Aerosol	502911	Remains tacky	-50° to 500°F	42A13131
(F) Black Sealant 2 Non-Hardening	85 g	Tube	495572	Remains tacky	-65° to 500°F	42A13080

Ready Gasket and 587™ Blue Form-In-Place Directions (See previous page)
Stamped or Sheet Metal Flanges

1. Remove old gasketing material and other heavy contaminants.
2. Clean both flanges with a cleaner.
3. Apply a continuous bead of LOCTITE® Ready Gasket or LOCTITE® High Performance silicones to sealing surface. Circle all bolt holes.
 NOTE: • Use proper bead diameter to seal flange width and depth.
 • Minimize excessive material "squeeze in."
4. Assemble within 10 minutes by pressing together. Tighten as required.
5. Clean up any excess or squeeze out.
6. Cure times will vary with temperature, humidity and gap. Typical full cure time is 24 hours.



Model Name	Color	Viscosity, cP	Gap fill	Cure Method	Tack-free	Service Temp. Range
Loctite® Ready Gasket*	Black	Paste	1/4"	Moisture/Oxime	5 minutes	-75°F to 500°F
Loctite® 587™ Blue	Blue	Paste	1/4"	Moisture/Oxime	30 minutes	-75°F to 500°F

*Loctite® Ready Gasket provides a low pressure instant seal (100 psi at zero gap).

Loctite® Lubricants

Loctite® Lubricants

To reduce wear and tear, anti-seize and lubricating compounds work to protect metal parts from corrosion, locking together and seizing. Made for harsh environments, these products protect against high temperatures, chemicals, heavy loads and vibration.

Anti-Seize



Model Name	Size	Container	Mfg. Part #	
Uses - Spark Plug Threads Installed in Aluminum, Exhaust Manifold Bolts, Engine Bolts, Thermostat Housing Bolts, Oxygen Sensors, Battery Cable Connections				
(A) Copper Stick	20 g	Stick	504468	42A13113
Uses - Spark Plug Threads Installed in Aluminum, Exhaust Manifold Bolts, Engine Bolts, Oxygen Sensors, Knock Sensors, Thermostat Housing Bolts, Fuel Filter Fittings and Battery Cable Connections				
(B) Copper Lubricant	113 ml	Brush top	500997	42A13097
(C) Copper Lubricant	226 ml	Brush top	555336	42A13100
(D) Copper Lubricant	453 ml	Brush top	500995	42A13096
Uses - Spark Plugs, Cylinder Head, Exhaust Head Bolts, for Easy Removal				
(E) Silver Stick	20 g	Stick	504469	42A13084
(F) Silver Lubricant	28 ml	Tube	495556	42A13102
(G) Silver Lubricant	236 ml	Brush top	501000	42A13098
(H) Silver Lubricant	340 g	Aerosol	623856	42A13108
(I) Silver Lubricant	453 ml	Brush top	501001	42A13099
Uses - Bolts, Screws, Studs, Nuts, Shafts, Bushings, Pipe Joints, Splines, Chains and Cables, for Marine Applications				
(J) Black Marine Grade	198 ml	Brush top	1999556	42A13068
(K) Black Marine Grade	226 ml	Brush top	299175	42A13093
(L) Black Marine Grade	453 ml	Brush top	275026	42A13090

High Performance Synthetic Grease



Model Name	Size	Container	Mfg. Part #	Uses	
(A) Tan Viper Lube	85 ml	Tube	457456	Anti-rust film on bearings, bushings, machine parts, equipment, or as a release agent on gaskets and seals	42A13079
(B) Tan Viper Lube	286 g	Aerosol	1906103		42A13042
(C) Tan Viper Lube	400 ml	Cartridge	457457		42A13063

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Loctite® Lubricants & Specialty Products

Loctite® Lubricants (Continued from previous page)

Lubricants

A	B	C	D	E	F	G
Model Name	Size	Container	Mfg. Part #	Uses		
(A) Blue Disc Brake Quiet Stick	19 g	Stick	718808	Quiet disk brake pads, apply at point of contact with caliper		42A13118
(B) Freeze and Release	383 g	Aerosol	2343776	Release seized and corroded assemblies of threaded and cylindrical parts. Any applications where a threadlocker or anti-seize has not been previously used, and rust and corrosion has formed.		42A13134
(C) Dielectric Tune-Up Grease	9.75 ml	Tube	495545	Marine and automotive electrical connections, spark plug boots, trailer hitches, battery terminals		42A13124
(D) Dielectric Tune-Up Grease	80 ml	Tube	495549		42A13128	
(E) Belt Dressing and Conditioner	141 g	Aerosol	502909	Fan belts, water pumps, power steering, sewing machines, washing machines, air conditioners, lawn mowers and power tools		42A13104
(F) Silicone Lubricant	368 g	Aerosol	503049	Door locks, trunk lids, brake cables and rubber molding		42A13141
(G) Penetrating Oil	340 g	Aerosol	503054	Free any corroded or seized part, penetrates rust, scale, paint, varnish, carbon or gum		42A13144

Loctite® Specialty Products

Need to repair, protect, seal, insulate or prevent corrosion, we carry a wide variety of Loctite® products for you. If you need to make a thread repair, or remove or prevent rust, these products will help your parts and equipment last longer and work more efficiently.

A	B	C	D	E	F	G	H	I	J	K	L
Model Name	Size	Container	Mfg. Part #	Uses							
(A) Extend Rust Neutralizer	236 ml	Bottle	1381192	One step rust treatment that destroys old rust and prevents new rust							42A13139
(B) Extend Rust Neutralizer	290 g	Aerosol	633877		42A13058						
(C) Extend Rust Neutralizer	945 ml	Bottle	234981		42A13121						
(D) Clover® Lapping and Grinding Compound 280 Grit	56 ml	Can	1777012	Ensuring proper fit of valves to valve seats in gas and diesel engines							42A13028
(E) Heavy-Duty Rubberized Undercoating	454 g	Aerosol	502908	Seals, protects and insulates automotive frames, rocker panels and wheels							42A13125
(F) Naval Jelly Rust Dissolver	142 ml	Jar	1381191	Removes rust from metal surfaces, such as iron railings, automobiles, patio furniture, tools, and lawn mowers							42A13146
(G) SF 7617™ Industrial Hand Wipes	75 count	-----	337637	Pre moistened abrasive wipes scrub off toughest grease and grime without scratching hands or paint							42A13127
(H) SF 7617™ Industrial Hand Wipes	130 count	-----	337638		42A13126						
(I) Red Insulating and Sealing Wrap	1in. x 10ft.	Roll	1212164	Non-sticky, self-fusing, multi-purpose wrap, stretches three times it's size for quick fixes anywhere							42A13027
(J) Black Insulating and Sealing Wrap	1in x 10 ft.	Roll	1540599		42A13015						
(K) PC 3967™ Stripped Thread Repair Kit	4.8 ml	Syringe	236382	Restores worn, stripped or damaged threads and eliminates future corrosion, galling, seizing and rust							42A13019
(L) Leather and Vinyl Repair Kit	35 ml	Kit	2445836	Repair leather, vinyl and plastic, mend holes, rips and burns on seats, door panels and vinyl tops							42A13089

Brass Fittings

Brass Reusable Hose Fittings

When you screw brass reusable hose fittings they form a strong seal against the hose. They can be then be unscrewed and used over and over. Remember to use a female connector and a male adapter with the same hose ID to make the connection.

Brass fittings have good corrosion resistance. The brass is a softer metal, making them easier to thread together.



With Spring Guard



Without Spring Guard



Adapter

(Use with swivel type reusable and crimped-on fittings)

Threaded Assembly, D.O.T Approved

Hose ID	Pipe Thread	With Spring Guard		Without Spring Guard		Pkg. Qty.
		Mfg. #	Part #	Mfg. #	Part #	
3/8"	1/4"	102	24A26607	105	24A25374	1
3/8"	3/8"	103	24A26585	106	24A25354	1
3/8"	1/2"	104	24A26529	107	24A25297	1
1/2"	3/8"	103-8	24A26247	106-8	24A26396	1
1/2"	1/2"	104-8	24A26238	107-8	24A26298	1

Straight Thread	Pipe Thread	Mfg. #	Part #	Use on Fittings		Pkg. Qty.
				Mfg. #	Part #	
3/4-20	1/4"	161201	24A25712	1105	24A25374	1
3/4-20	3/8"	161201-6	24A25711	1106	24A25354	1
3/4-20	1/2"	161201-8	24A25636	1107	24A25297	1
7/8-20	3/8"	181201-6	24A25415	1106-8	24A26396	1
7/8-20	1/2"	181201-8	24A25188	1107-8	24A26298	1



Body

Hose ID	Pipe Thread	Mfg. #	Part #	Pkg. Qty.
3/8"	1/4"	1021	24A25673	1
3/8"	3/8"	1031	24A25640	1
3/8"	1/2"	1041	24A25563	1
1/2"	3/8"	1031-8	24A25472	1
1/2"	1/2"	1041-8	24A25293	1



Spring

Hose ID	Mfg. #	Part #	Pkg. Qty.
Spring Only			
(A) 3/8"	1024	24A26002	10
(A) 1/2"	1024-8	24A25865	1
Spring-Nut Assembly, D.O.T Approved			
(B) 3/8"	10234	24A25639	1
(B) 1/2"	10234-8	24A25353	1



Nut, D.O.T Approved

Hose ID	Mfg. #	Part #	Pkg. Qty.
For use with Spring			
(A) 3/8"	1025	24A25688	1
(A) 1/2"	1025-8	24A25512	1
(B) 3/8"	1023	24A25723	1
(B) 1/2"	1023-8	24A25543	1



Ferrule

Hose ID	Mfg. #	Part #	Pkg. Qty.
3/8"	1022	24A25904	1
1/2"	1022-8	24A25751	1



Mender Body

Hose ID	Mfg. #	Part #	Pkg. Qty.
3/8"	1055011	24A25214	1
1/2"	1077011	24A25169	1



Hose Mender, D.O.T.

Hose ID	Mfg. #	Part #	Pkg. Qty.
3/8"	105501	24A25128	1
1/2"	107701	24A26093	1



Swivel Type, D.O.T. approved

Hose ID	Pipe Thread	Mfg. #	Part #	Pkg. Qty.
3/8"	1/4"	1105	24A26200	1
3/8"	3/8"	1106	24A26191	1
3/8"	1/2"	1107	24A26112	1
1/2"	3/8"	1106-8	24A26061	1
1/2"	1/2"	1107-8	24A26052	1



Swivel Type with Spring Guard

Hose ID	Pipe Thread	Mfg. #	Part #	Pkg. Qty.
3/8"	1/4"	1102	24A26179	1
3/8"	3/8"	1103	24A26291	1
3/8"	1/2"	1104	24A26166	1

Hose End Kits

Keep a Hose End Kit on hand for quick easy repairs, reducing downtime. Each FIX-IT pack will repair two damaged hoses.



Description	Thread		Mfg. #	Part #	Pkg. Qty.
	NPT				
Fix-It Pack / Includes 2 swivel ends and 1 hex wrench	3/8"		40-31402	24A32154	1
Fix-It Pack / Includes 2 swivel ends and 1 hex wrench	1/2"		40-31403	24A31738	1
Fix-It Pack / Includes 2 swivel ends, 2 springs and 1 hex wrench	3/8"		40-31422	24A31843	1
Case of Fix-It Packs / Includes 5 packs per case	3/8"		40-31406	24A29732	1
Case of Fix-It Packs / Includes 5 packs per case	1/2"		40-31407	24A29438	1
Bag of Swivel Ends / Includes 10 swivel ends and 1 hex wrench	3/8"		40-31404	24A29809	1
Bag of Swivel Ends / Includes 10 swivel ends and 1 hex wrench	1/2"		40-31405	24A29395	1
Box of Swivel Ends / Includes 100 swivel ends (Wrench not included)	3/8"		40-31408	24A27509	1
Box of Swivel Ends / Includes 100 swivel ends (Wrench not included)	1/2"		40-31409	24A27212	1

D.O.T. Air Brake Fittings for Copper Tubing

These fittings are designed for air brake systems on heavy trucks and trailers that have copper tubing. They meet the Department of Transportation (D.O.T.) requirements. They have excellent vibration resistance.



Sleeve

Tube Size	Mfg. #	Part #	Pkg. Qty.
1/4"	1160-4	24A24726	25
3/8"	1160-6	24A24713	10
1/2"	1160-8	24A24838	10
5/8"	1160-10	24A25958	1
3/4"	1160-12	24A26860	1



Nut

Tube Size	Mfg. #	Part #	Pkg. Qty.
1/4"	1161-4	24A24946	1
3/8"	1161-6	24A24941	1
1/2"	1161-8	24A25697	1
5/8"	1161-10	24A25600	1
3/4"	1161-12	24A26662	1



Union

Tube Size	Mfg. #	Part #	Pkg. Qty.
1/4"	1162-4	24A25599	1
3/8"	1162-6	24A25508	1
1/2"	1162-8	24A26535	1
5/8"	1162-10	24A26332	1
3/4"	1162-12	24A26092	1



Union Elbow

Tube Size	Mfg. #	Part #	Pkg. Qty.
3/8"	1165-6	24A25226	1
5/8"	1165-10	24A26195	1



Tee Union

Tube Size	Mfg. #	Part #	Pkg. Qty.
1/4"	1164-4	24A25337	1
3/8"	1164-6	24A25193	1
1/2"	1164-8	24A26236	1



Male Run Tee

Tube Size	Pipe Thread Size	Mfg. #	Part #	Pkg. Qty.
3/8"	1/4"	1171-6B	24A25225	1
3/8"	3/8"	1171-6C	24A25197	1



Male Connector

Tube Size	Pipe Thread Size	Mfg. #	Part #	Pkg. Qty.
1/4"	1/8"	1168-4A	24A25719	1
1/4"	1/4"	1168-4B	24A25684	1
1/4"	3/8"	1168-4C	24A25539	1
3/8"	1/8"	1168-6A	24A25606	1
3/8"	1/4"	1168-6B	24A25580	1
3/8"	3/8"	1168-6C	24A25495	1
3/8"	1/2"	1168-6D	24A25418	1
1/2"	1/4"	1168-8B	24A26700	1
1/2"	3/8"	1168-8C	24A26676	1
1/2"	1/2"	1168-8D	24A26661	1
1/2"	3/4"	1168-8E	24A26081	1
5/8"	3/8"	1168-10C	24A26586	1
5/8"	1/2"	1168-10D	24A26567	1
3/4"	1/2"	1168-12D	24A26286	1
3/4"	3/4"	1168-12E	24A26151	1



Male Elbow

Tube Size	Pipe Thread Size	Mfg. #	Part #	Pkg. Qty.
1/4"	1/8"	1169-4A	24A25607	1
1/4"	1/4"	1169-4B	24A25578	1
1/4"	3/8"	1169-4C	24A25411	1
3/8"	1/8"	1169-6A	24A25451	1
3/8"	1/4"	1169-6B	24A25550	1
3/8"	3/8"	1169-6C	24A25401	1
3/8"	1/2"	1169-6D	24A26346	1
1/2"	1/4"	1169-8B	24A26601	1
1/2"	3/8"	1169-8C	24A26622	1
1/2"	1/2"	1169-8D	24A26536	1
5/8"	3/8"	1169-10C	24A26450	1
5/8"	1/2"	1169-10D	24A26444	1
3/4"	1/2"	1169-12D	24A26213	1



Female Connector

Tube Size	Pipe Thread Size	Mfg. #	Part #	Pkg. Qty.
1/4"	1/4"	1166-4B	24A25255	1
3/8"	1/4"	1166-6B	24A25579	1
3/8"	3/8"	1166-6C	24A26508	1
1/2"	3/8"	1166-8C	24A26136	1



Female Elbow

Tube Size	Pipe Thread Size	Mfg. #	Part #	Pkg. Qty.
3/8"	1/4"	1170-6B	24A24337	1
3/8"	3/8"	1170-6C	24A32194	1
5/8"	1/2"	1170-10D	24A26050	1



45° Male Elbow Air Brake to Male Pipe

Tube Size	Pipe Thread Size	Mfg. #	Part #	Pkg. Qty.
1/4"	1/4"	1174-4B	24A25348	1
3/8"	1/4"	1174-6B	24A25406	1
3/8"	3/8"	1174-6C	24A25365	1
3/8"	1/2"	1174-6D	24A26258	1
1/2"	3/8"	1174-8C	24A26551	1
1/2"	1/2"	1174-8D	24A26127	1
5/8"	1/2"	1174-10D	24A26254	1



Male Branch Tee

Tube Size	Pipe Thread Size	Mfg. #	Part #	Pkg. Qty.
1/4"	1/8"	1172-4A	24A25278	1
1/4"	1/4"	1172-4B	24A25252	1
3/8"	1/8"	1172-6A	24A25163	1
3/8"	1/4"	1172-6B	24A25250	1
3/8"	3/8"	1172-6C	24A25198	1
1/2"	3/8"	1172-8C	24A26193	1
1/2"	1/2"	1172-8D	24A26208	1

Brass Fittings

D.O.T. Air Brake Fittings for Nylon Tubing

These fittings are designed for air brake systems on heavy trucks and trailers that have nylon tubing. They meet the Department of Transportation (D.O.T.) requirements, unless noted below. They have excellent vibration resistance.

Composite fittings are easy to assemble, and can be assembled and disassembled over and over again.



Female Connector

Tube Size	Pipe Thread	Ferrule		Brass Push-Lock		Composite Push-Lock		Pkg. Qty.
		Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #	
1/4"	1/8"	1366-4A	24A25586	PL1366-4A	24A24358	QL1366-4A	24A24369	1
1/4"	1/4"	1366-4B	24A25570	PL1366-4B	24A24347	QL1366-4B	24A24368	1
3/8"	1/8"	1366-6A	24A25626	PL1366-6A	24A25254	QL1366-6A	24A25172	1
3/8"	1/4"	1366-6B	24A25494	PL1366-6B	24A24343	QL1366-6B	24A24345	1
3/8"	3/8"	1366-6C	24A25412	PL1366-6C	24A24322	QL1366-6C	24A24327	1
1/2"	3/8"	1366-8C	24A26595	PL1366-8C	24A26266	QL1366-8C	24A25105	1
1/2"	1/2"	1366-8D	24A26578	-----	-----	QL1366-8D	24A25115	1
5/8"	1/2"	-----	-----	-----	-----	QL136610D	24A25085	1



Male Connector

Tube Size	Pipe Thread	Ferrule		Brass Push-Lock		Composite Push-Lock		Pkg. Qty.
		Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #	
1/8"	1/16"	1368-21	24A25490*	PL13682X1	24A25215*	QL13682X1	24A25614*	1
1/8"	1/8"	1368-2A	24A25358*	PL1368-2A	24A25319*	QL1368-2A	24A25557*	1
1/8"	1/4"	-----	-----	-----	-----	QL1368-2B	24A26742*	1
5/32"	1/16"	1368-251	24A25378*	PL1368251	24A24359	QL136825A	24A24357	1
5/32"	1/8"	1368-25A	24A25470*	PL136825A	24A24360	QL136825B	24A25181	1
5/32"	1/4"	-----	-----	PL136825B	24A32222	QL1368251	24A24348	1
3/16"	1/16"	1368-31	24A26334	PL13683X1	24A26240	-----	-----	1
3/16"	1/8"	1368-3A	24A26499	PL1368-3A	24A26718	QL1368-3A	24A25341*	1
3/16"	1/4"	1368-3B	24A26249	PL1368-3B	24A25413	QL1368-3B	24A25474*	1
1/4"	1/16"	1368-41	24A25298	PL1368-41	24A25355	-----	-----	1
1/4"	1/8"	1368-4A	24A25699	PL1368-4A	24A25477	QL1368-4A	24A25591	1
1/4"	1/4"	1368-4B	24A25656	PL1368-4B	24A25433	QL1368-4B	24A25573	1
1/4"	3/8"	1368-4C	24A25520	PL1368-4C	24A24362	QL1368-4C	24A24378	1
3/8"	1/8"	1368-6A	24A25601	PL1368-6A	24A24351	QL1368-6A	24A24367	1
3/8"	1/4"	1368-6B	24A25645	PL1368-6B	24A25290	QL1368-6B	24A25397	1
3/8"	3/8"	1368-6C	24A25582	PL1368-6C	24A25327	QL1368-6C	24A25437	1
3/8"	1/2"	1368-6D	24A26658	PL1368-6D	24A26506	QL1368-6D	24A26599	1
1/2"	1/4"	1368-8B	24A26733	PL1368-8B	24A24234	QL1368-8B	24A24242	1
1/2"	3/8"	1368-8C	24A26717	PL1368-8C	24A26451	QL1368-8C	24A26543	1
1/2"	1/2"	1368-8D	24A26705	PL1368-8D	24A24233	QL1368-8D	24A24238	1
1/2"	3/4"	1368-8E	24A26287	-----	-----	QL1368-8E	24A25101	1
5/8"	3/8"	1368-10C	24A26493	PL136810C	24A24213	QL136810C	24A24222	1
5/8"	1/2"	1368-10D	24A26561	PL136810D	24A26167	QL136810D	24A26290	1
5/8"	3/4"	1368-10E	24A26414	-----	-----	QL136810E	24A25116	1
3/4"	3/8"	-----	-----	-----	-----	QL136812C	24A26252	1
3/4"	1/2"	1368-12D	24A26371	PL136812D	24A31420	QL136812D	24A26262	1
3/4"	3/4"	1368-12E	24A26296	PL136812E	24A30758	QL136812E	24A26085	1

*Not D.O.T. approved



Tube OD	Mfg. #	Part #	Pkg. Qty.
3/16"	1360-3	24A24799*	1
1/4"	1360-4	24A24727	25
3/8"	1360-6	24A24718	10
1/2"	1360-8	24A24841	10
5/8"	1360-10	24A25927	1
3/4"	1360-12	24A26863	1

*Not D.O.T. approved

Tube OD	Mfg. #	Part #	Pkg. Qty.
3/16"	1361-3	24A25780*	1
1/4"	1361-4	24A24686	10
3/8"	1361-6	24A24665	1
1/2"	1361-8	24A24793	1
5/8"	1361-10	24A25713	1
3/4"	1361-12	24A26825	1

*Not D.O.T. approved

Tube OD	Mfg. #	Part #	Pkg. Qty.
1/4"	41484X4	24A24705	10
3/8"	41484X6	24A24701	10
1/2"	41484X8	24A24803	1
5/8"	41484X10	24A25940	1
3/4"	41484X12	24A26868	1

D.O.T. Air Brake Fittings for Nylon Tubing (Cont.)



Female Elbow

Tube Size	Pipe Thread Size	Ferrule		Swivel Brass Push-Lock		Swivel Composite Push-Lock		Pkg. Qty.
		Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #	
3/16"	1/8"	1370-3A	24A26053	-----	-----	-----	-----	1
1/4"	1/8"	1370-4A	24A25438	PL1370-4A	24A24338	QL1370-4A	24A24355	1
1/4"	1/4"	1370-4B	24A25239	PL1370-4B	24A24316	QL1370-4B	24A24350	1
3/8"	1/8"	1370-6A	24A25288	PL1370-6A	24A25080	QL1370-6A	24A25117	1
3/8"	1/4"	1370-6B	24A25296	PL1370-6B	24A24304	QL1370-6B	24A24331	1
3/8"	3/8"	1370-6C	24A25286	PL1370-6C	24A24297	QL1370-6C	24A24307	1
1/2"	3/8"	1370-8C	24A26428	PL1370-8C	24A25094	QL1370-8C	24A25111	1
1/2"	1/2"	1370-8D	24A26344	PL1370-8D	24A25083	QL1370-8D	24A25102	1
5/8"	1/2"	1370-10D	24A26201	-----	-----	QL137010D	24A25088	1



Male Elbow

Tube Size	Pipe Thread Size	Ferrule		Swivel Brass Push-Lock		Non-Swivel Brass Push-Lock		Swivel Composite Push-Lock		Pkg. Qty.
		Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #	
1/8"	1/8"	1369-2A	24A25361*	PL1369-2A	24A25284*	PL1315-2A	24A25363*	QL1369-2A	24A25468*	1
1/8"	1/16"	1369-21	24A25104*	-----	-----	-----	-----	QL1369-21	24A25513*	1
5/32"	1/16"	-----	-----	-----	-----	-----	-----	QL136951	24A25514*	1
1/8"	1/4"	-----	-----	-----	-----	-----	-----	QL1369-2B	24A25484*	1
5/32"	1/8"	1369-25A	24A25380*	PL136925A	24A25141	PL131525A	24A25308	QL136925	24A25345	1
5/32"	1/4"	-----	-----	PL136925B	24A26364	-----	-----	QL136925B	24A26621	1
3/16"	1/8"	1369-3A	24A26116	PL1369-3A	24A26281	PL1315-3A	24A25317	QL1369-3A	24A25391*	1
3/16"	1/4"	1369-3B	24A26104	-----	-----	-----	-----	QL1369-3B	24A25491*	1
1/4"	1/8"	1369-4A	24A25637	PL1369-4A	24A24329	PL1315-4A	24A25316	QL1369-4A	24A24361	1
1/4"	1/4"	1369-4B	24A25611	PL1369-4B	24A24324	PL1315-4B	24A24339	QL1369-4B	24A24349	1
1/4"	3/8"	1369-4C	24A25394	PL1369-4C	24A24310	PL1315-4C	24A24321	QL1369-4C	24A24334	1
3/8"	1/8"	1369-6A	24A25553	PL1369-6A	24A24303	PL1315-6A	24A25219	QL1369-6A	24A24323	1
3/8"	1/4"	1369-6B	24A25551	PL1369-6B	24A25131	PL1315-6B	24A24325	QL1369-6B	24A25190	1
3/8"	3/8"	1369-6C	24A25489	PL1369-6C	24A25125	PL1315-6C	24A24317	QL1369-6C	24A25183	1
3/8"	1/2"	1369-6D	24A26589	PL1369-6D	24A24216	PL1315-6D	24A26275	QL1369-6D	24A24229	1
1/2"	1/4"	1369-8B	24A26598	PL1369-8B	24A26128	PL1315-8B	24A26144	QL1369-8B	24A26282	1
1/2"	3/8"	1369-8C	24A26641	PL1369-8C	24A26180	PL1315-8C	24A24223	QL1369-8C	24A26322	1
1/2"	1/2"	1369-8D	24A26544	PL1369-8D	24A24212	PL1315-8D	24A24218	QL1369-8D	24A24225	1
5/8"	3/8"	1369-10C	24A26415	PL136910C	24A30496	-----	-----	QL136910C	24A31002	1
5/8"	1/2"	1369-10D	24A26461	PL136910D	24A30516	PL131510D	24A26222	QL136910D	24A31101	1
5/8"	3/4"	1369-10E	24A26117	-----	-----	-----	-----	QL136910E	24A30843	1
3/4"	1/2"	1369-12D	24A26199	PL136912D	24A30256	PL131512D	24A30566	QL136912D	24A31218	1
3/4"	3/4"	1369-12E	24A26129	PL136912E	24A30626	-----	-----	QL136912E	24A30630	1

*Not D.O.T. approved



Male Run Tee

Tube Size	Pipe Thread Size	Ferrule		Swivel Brass Push-Lock		Swivel Composite Push-Lock		Pkg. Qty.
		Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #	
1/4"	1/8"	1371-4A	24A25285	PL1371-4A	24A25133	QL1371-4A	24A25185	1
1/4"	1/4"	1371-4B	24A25208	PL1371-4B	24A25134	QL1371-4B	24A25186	1
1/4"	3/8"	-----	-----	-----	-----	QL1371-4C	24A26387	1
3/8"x1/4"	1/4"	1371-6AB	24A26147	-----	-----	QL13716AB	24A25153	1
3/8"	1/4"	1371-6B	24A25279	PL1371-6B	24A25099	QL1371-6B	24A25139	1
3/8"	3/8"	1371-6C	24A25189	PL1371-6C	24A25087	QL1371-6C	24A25120	1
3/8"	1/2"	-----	-----	-----	-----	QL1371-6D	24A26165	1
1/2"	1/4"	1371-8B	24A26078	-----	-----	QL1371-8B	24A25098	1
1/2"	3/8"	1371-8C	24A26253	PL1371-8C	24A26101	QL1371-8C	24A26187	1
1/2"	1/2"	1371-8D	24A26303	PL1371-8D	24A26175	QL1371-8D	24A26138	1
1/2"x1/4"	1/2"	-----	-----	PL137184D	24A26082	QL137184D	24A26168	1
5/8"	1/2"	1371-10D	24A26121	-----	-----	QL137110D	24A26090	1

Brass Fittings

D.O.T. Air Brake Fittings for Nylon Tubing (Cont.)



45° Male Elbow

Tube Size	Pipe Thread Size	Ferrule		Swivel Brass Push-Lock		Non-Swivel Brass Push-Lock		Swivel Composite Push-Lock		Pkg. Qty.
		Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #	
1/8"	1/8"	-----	-----	-----	-----	-----	-----	QL1374-2A	24A26532*	1
5/32"	1/8"	-----	-----	-----	-----	-----	-----	QL137425A	24A25178	1
1/4"	1/8"	1374-4A	24A25410	PL1374-4A	24A24305	-----	-----	QL1374-4A	24A24344	1
1/4"	1/4"	1374-4B	24A25421	PL1374-4B	24A24302	-----	-----	QL1374-4B	24A24335	1
1/4"	3/8"	-----	-----	-----	-----	-----	-----	QL1374-4C	24A26518	1
3/8"	1/8"	1374-6A	24A25270	PL1374-6A	24A25129	-----	-----	QL1374-6A	24A25237	1
3/8"	1/4"	1374-6B	24A25414	PL1374-6B	24A24301	-----	-----	QL1374-6B	24A24328	1
3/8"	3/8"	1374-6C	24A25386	PL1374-6C	24A26196	-----	-----	QL1374-6C	24A26316	1
3/8"	1/2"	1374-6D	24A26538	PL1374-6D	24A26181	-----	-----	QL1374-6D	24A26256	1
1/2"	1/4"	1374-8B	24A26390	PL1374-8B	24A26137	-----	-----	QL1374-8B	24A26445	1
1/2"	3/8"	1374-8C	24A26550	PL1374-8C	24A26130	-----	-----	QL1374-8C	24A26380	1
1/2"	1/2"	1374-8D	24A26453	PL1374-8D	24A26065	PL1375-8D	24A26172	QL1374-8D	24A26182	1
5/8"	3/8"	1374-10C	24A26399	-----	-----	-----	-----	QL137410C	24A26066	1
5/8"	1/2"	1374-10D	24A26392	PL137410D	24A26063	-----	-----	QL137410D	24A26089	1
3/4"	1/2"	1374-12D	24A26235	-----	-----	PL137512D	24A26062	QL137412D	24A26188	1

*Not D.O.T. approved



Female Branch Tee

Tube Size	Pipe Thread Size	Ferrule		Swivel Brass Push-Lock		Swivel Composite Push-Lock		Pkg. Qty.
		Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #	
1/4"	1/8"	-----	-----	PL1378-4A	24A30145	QL1378-4A	24A25176	1
1/4"	1/4"	-----	-----	PL1378-4B	24A30141	QL1378-4B	24A25146	1
3/8"	1/4"	1378-6B	24A26897	PL1378-6B	24A30122	QL1378-6B	24A25097	1
5/8"	1/4"	1378-10B	24A26894	-----	-----	QL137810B	24A25082	1



Male Branch Tee

Tube Size	Pipe Thread Size	Ferrule		Swivel Brass Push-Lock		Swivel Composite Push-Lock		Pkg. Qty.
		Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #	
1/8"	1/8"	-----	-----	PL1372-2A*	24A25127*	QL1372-2A*	24A25347*	1
3/16"	1/8"	-----	-----	-----	-----	QL1372-3A*	24A25240*	1
1/4"	1/8"	1372-4A	24A25213	PL1372-4A	24A24308	QL1372-4A	24A24333	1
1/4"	1/4"	1372-4B	24A25220	PL1372-4B	24A24300	QL1372-4B	24A24315	1
3/8"	1/8"	1372-6A	24A25230	PL1372-6A	24A30910	QL1372-6A	24A25142	1
3/8"	1/4"	1372-6B	24A25222	PL1372-6B	24A24296	QL1372-6B	24A24311	1
3/8"x1/4"	3/8"	1372-6AB	24A25210	-----	-----	-----	-----	1
3/8"	3/8"	1372-6C	24A25210	PL1372-6C	24A24298	QL1372-6C	24A24309	1
3/8"	1/2"	-----	-----	-----	-----	QL1372-6D	24A26190	1
1/2"	1/4"	1372-8B	24A26070	PL1372-8B	24A26145	QL1372-8B	24A25144	1
1/2"	3/8"	1372-8C	24A26293	PL1372-8C	24A24206	QL1372-8C	24A24217	1
1/2"x3/8"	1/4"	1372-8CC	24A26908	-----	-----	-----	-----	1
1/2"	1/2"	1372-8D	24A26230	PL1372-8D	24A26074	QL1372-8D	24A26139	1
5/8"	1/2"	1372-10D	24A26126	-----	-----	QL137210D	24A26132	1

*Not D.O.T. approved



Reducing Union Tee

Tube A	Tube B	Tube C	Ferrule		Swivel Brass Push-Lock		Swivel Composite Push-Lock		Pkg. Qty.
			Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #	
3/8"	3/8"	1/4"	1364-664	24A25269	PL1364664	24A26265	QL1364664	24A25174	1
1/2"	1/2"	3/8"	1364-886	24A26419	-----	-----	QL1364886	24A25096	1

D.O.T. Air Brake Fittings for Nylon Tubing (Cont.)



Union		Ferrule		Brass Push-Lock		Composite Push-Lock		Pkg. Qty.
Tube Size	Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #		
1/8"	1362-2	24A25281	PL1362-2*	24A25267*	QL1362-2*	24A25464*		1
5/32"	1362-25*	24A25204*	PL1362-25	24A24319	QL1362-25	24A24340		1
3/16"	-----	-----	PL1362-3	24A25346	QL1362-3*	24A25321*		1
1/4"	1362-4	24A25592	PL1362-4	24A25299	QL1362-4	24A25401		1
5/16"	-----	-----	PL1362-5*	24A26352*	-----	-----		1
3/8"	1362-6	24A25509	PL1362-6	24A25242	QL1362-6	24A25340		1
1/2"	1362-8	24A26608	PL1362-8	24A26373	QL1362-8	24A26498		1
5/8"	1362-10	24A26403	PL1362-10	24A26157	QL1362-10	24A26186		1
3/4"	1362-12	24A26156	PL1362-12	24A30564	QL1362-12	24A30429		1

*Not D.O.T. approved



Union Tee		Ferrule		Brass Push-Lock		Composite Push-Lock		Pkg. Qty.
Tube Size	Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #		
1/8"	-----	-----	PL1364-2*	24A25149*	QL1364-2*	24A25344*		1
5/32"	-----	-----	PL1364-25*	24A25147*	QL1364-25	24A26131		1
3/16"	-----	-----	PL1364-3*	24A25145*	QL1364-3*	24A31478*		1
1/4"	1364-4	24A25262	PL1364-4	24A24312	QL1364-4	24A24330		1
3/8"	1364-6	24A25268	PL1364-6	24A24299	QL1364-6	24A24314		1
1/2"	1364-8	24A26417	PL1364-8	24A24210	QL1364-8	24A24220		1
5/8"	1364-10	24A26278	PL1364-10	24A26083	QL1364-10	24A26141		1
3/4"	1364-12	24A30908	PL1364-12	24A26067	-----	-----		1

*Not D.O.T. approved



Union Elbow		Ferrule		Brass Push-Lock		Composite Push-Lock		Pkg. Qty.
Tube Size	Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #		
5/32"	-----	-----	PL1365-25	24A25179	QL1365-25	24A25084		1
1/4"	1365-4	24A25307	PL1365-4	24A24320	QL1365-4	24A24352		1
3/8"	1365-6	24A25261	PL1365-6	24A24313	QL1365-6	24A24332		1
1/2"	1365-8	24A26356	PL1365-8	24A24209	QL1365-8	24A24228		1
5/8"	1365-10	24A26198	PL1365-10	24A26110	-----	-----		1



Female Bulkhead Union		Brass Push-Lock		Composite Push-Lock		Pkg. Qty.
Tube Size	Pipe Thread	Mfg. #	Part #	Mfg. #	Part #	
1/4"	1/8"	PL1386-4A	24A31873	QL1386-4A	24A32231	1
1/4"	1/4"	PL1386-4B	24A31517	QL1386-4B	24A31951	1
3/8"	1/4"	PL1386-6B	24A31001	QL1386-6B	24A31519	1

Bulkhead Union		Ferrule		Brass Push-Lock		Composite Push-Lock		Pkg. Qty.
Tube Size	Mfg. #	Part #	Mfg. #	Part #	Mfg. #	Part #		
3/16"	-----	-----	-----	-----	QL1377-3	24A25249*		1
1/4"	1377-4	24A25303	PL1377-4	24A25167	QL1377-4	24A25241		1
3/8"	1377-6	24A25235	PL1377-6	24A24295	QL1377-6	24A24318		1
1/2"	1377-8	24A26223	PL1377-8	24A24205	QL1377-8	24A24215		1

*Not D.O.T. approved



Y Union		Mfg. #	Part #	Pkg. Qty.
Tube A	Tube B			
1/4"	1/4"	QL1363444	24A25171	1
1/4"	3/8"	QL1363446	24A25154	1
3/8"	3/8"	QL1363666	24A26294	1

Push-Lock Fitting Plug		Mfg. #	Part #	Pkg. Qty.
Tube OD	Size			
1/4"	1/4"	PL109-4	24A25918	1
3/8"	3/8"	PL109-6	24A25868	1
1/2"	1/2"	PL109-8	24A25760	1

Mounting Hole Dimensions: ID - 4.2 millimeters, OD - 8 millimeters

Brass Fittings & American Made Test Clips

Push-Lock Standpipes

Push-Lock Standpipes are useful in routing your nylon tubing in tight spaces, such as behind the cab or under the seat. Often used on gauges and air suspension plumbing. They have a push-to-connect design making them easy to install. No tools are required.



Reducer Adapter



Run Tee



90° Elbow

Reducer Adapter

Tube A	Tube B	Mfg. #	Part #	Pkg. Qty.
1/4"	3/8"	Q537-4C	24A26610	1
3/8"	1/4"	Q537-6B	24A26475	1

Run Tee

Tube A	Tube B	Tube C	Mfg. #	Part #	Pkg. Qty.
1/4"	1/4"	1/4"	Q571-44B	24A26446	1
1/4"	1/4"	3/8"	Q571-44C	24A26394	1
3/8"	1/4"	3/8"	Q571-64C	24A26488	1
3/8"	3/8"	3/8"	Q571-66C	24A26418	1
1/2"	1/4"	1/2"	Q571-84D	24A26382	1

90° Elbow

Tube A	Tube B	Mfg. #	Part #	Pkg. Qty.
1/4"	1/4"	Q569-4B	24A26639	1
1/4"	3/8"	Q569-4C	24A26655	1
3/8"	1/4"	Q569-6B	24A26645	1
3/8"	3/8"	Q569-6C	24A26648	1
3/8"	1/2"	Q569-6D	24A26560	1
1/2"	1/4"	Q569-8B	24A26413	1
1/2"	1/2"	Q569-8D	24A25138	1
5/8"	1/2"	Q569-10D	24A26217	1

American Made Test Clips

These American made test clips have heavy-gauge bodies, springs and rivets. Other test clips on the market have a shorter lifespan and require replacements more frequently. The clips are steel and have different plating options.

Their insulators are designed to fit the clips correctly, to prevent electrical shock and difficult clip operation.

Insulated Plier-Type Clips, Crimp or Solder Connection



Amps	Jaw Opening	Overall Length	Color	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
200	1 1/2"	6"	Black	Up to 1	Copper	BU-41A-0	11A61505	1
200	1 1/2"	6"	Red	Up to 1	Copper	BU-41A-2	11A61506	1

Additional Insulators: Black/Part #11A61515, Red/Part #11A61516, Yellow/Part #11A61517, Blue/Part #11A61518 and White/Part #11A61519. Sold in pairs.

Insulated Miniature Plier-Type Clips, Crimp or Solder Connection



Amps	Jaw Opening	Overall Length	Color	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
50	1 1/8"	2 7/8"	Black	Up to 10	Copper	BU-46A-0	11A61534	1
50	1 1/8"	2 7/8"	Red	Up to 10	Copper	BU-46A-2	11A61537	1
75	1 1/8"	2 7/8"	Black	Up to 10	Copper	BU-46C-0	11A61539	1
75	1 1/8"	2 7/8"	Red	Up to 10	Copper	BU-46C-2	11A61542	1

Miniature Alligator Clips, Crimp or Solder Connection



Amps	Jaw Opening	Overall Length	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
5	3/16"	1 3/32"	20-24	Nickel	BU-30	11A61376	1
5	3/16"	1 3/32"	20-24	Solid Copper	BU-30C	11A61408	1

Insulators: Purchase separately. Black/Part #11A61447, Red/Part #11A61452, Yellow/Part #11A61453, Green/Part #11A61454, Blue/Part #11A61455 and White/Part #11A61479.

Miniature Alligator Clip, Crimp or Solder Barrel Connection



Amps	Jaw Opening	Overall Length	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
5	3/16"	1 1/4"	18-24	Nickel	BU-30BL	11A61407	1

Insulators: Purchase separately. Black/Part #11A61412, Red/Part #11A61421, Yellow/Part #11A61432, Green/Part #11A61433, Blue/Part #11A61434 and White/Part #11A61446.

Micro Alligator Clips, Crimp or Solder Connection



Amps	Jaw Opening	Overall Length	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
5	7/32"	1 3/32"	20-24	Nickel	BU-34	11A61481	1
5	7/32"	1 3/32"	20-24	Copper	BU-34C	11A61482	1

Insulators: Purchase separately. Black/Part #11A61487, Red/Part #11A61488, Yellow/Part #11A61489, Green/Part #11A61490, Blue/Part #11A61491 and White/Part #11A61492.

American Made Test Clips

American Made Test Clips (Cont.)

Probe Tip Alligator, Phone Tip or Probe Jack Connection

Amps	Jaw Opening	Overall Length	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
10	5/16"	1 31/32"	-----	Nickel	BU-60PR2	11A61617	1



Probe Tip Alligators, Crimp or Solder Barrel Connection, Compatible with 4mm Banana Plugs

Amps	Jaw Opening	Overall Length	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
10	5/16"	1 31/32"	14-20	Nickel	BU-60	11A61586	1
10	5/16"	1 31/32"	14-20	Solid Copper	BU-60C	11A61588	1
10	5/16"	1 31/32"	14-20	Stainless Steel	BU-60X	11A61622	1



Alligator with Screw, Crimp or Screw Connection, Compatible with 4mm Banana Plugs

Amps	Jaw Opening	Overall Length	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
10	5/16"	1 31/32"	14-20	Nickel	BU-60S	11A61024	6
10	5/16"	1 31/32"	14-20	Solid Copper	BU-60CS	11A61595	1



Alligator with Threaded Barrel, 8-32 Threaded Barrel for Test Probe Connection

Amps	Jaw Opening	Overall Length	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
10	5/16"	2 1/8"	-----	Nickel	BU-60TBO	11A61618	1



Insulators: For BU-60PR2, BU-60, BU-60C, BU-60X, BU-60S and BU-60TBO purchase Yellow/Part #11A61642, Green/Part #11A61643, Blue/Part #11A61644 and White/Part #11A61645.



For BU-60, BU-60C, BU-60S, BU-60X and BU-60CS purchase Black/Part #11A61706, Red/Part #11A61707, Yellow/Part #11A61708, Green/Part #11A61709, Blue/Part #11A61710 and White/Part #11A61711.

Large Insulated Safety Alligator Clips, 4mm Banana Plug Connection

Amps	Jaw Opening	Overall Length	Color	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
30	3/4"	3 1/4"	Black	-----	Nickel	BU-65-0	11A61662	1
30	3/4"	3 1/4"	Red	-----	Nickel	BU-65-2	11A61665	1
30	3/4"	3 1/4"	Yellow	-----	Nickel	BU-65-4	11A61668	1
30	3/4"	3 1/4"	Green	-----	Nickel	BU-65-5	11A61669	1
30	3/4"	3 1/4"	Blue	-----	Nickel	BU-65-6	11A61670	1
30	3/4"	3 1/4"	White	-----	Nickel	BU-65-9	11A61671	1



General Purpose Clip, Crimp or Screw Connection

Amps	Jaw Opening	Overall Length	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
40	5/8"	2 7/16"	Up to 12	Solid Copper	BU-27C	11A61355	1



Geophone Clip, Crimp or Screw Connection

Amps	Jaw Opening	Overall Length	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
40	5/8"	2 13/32"	Up to 12	Solid Copper	BU-27CGW	11A61357	1



Insulators: Purchase separately. (A) Yellow/Part #11A61372, Green/Part #11A61373, Blue/Part #11A61374 and White/Part #11A61375.



(B) for use with larger wires and cables. Black/Part #11A61727, Red/Part #11A61728, Yellow/Part #11A61729, Green/Part #11A61730, Blue/Part #11A61731 and White/Part #11A61732.



Automotive Analyzer Clips, Crimp or Screw Connection

Amps	Jaw Opening	Overall Length	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
10	1/2"	2"	14-20	Zinc	BU-48B	11A61556	1
20	1/2"	2"	14-20	Solid Copper	BU-48C	11A61558	1



Insulators: Purchase separately. Black/Part #11A61010, Red/Part #11A61011, Yellow/Part #11A61559, Green/Part #11A61560, Blue/Part #11A61561 and White/Part #11A61562.



Pee-Wee Clips, Crimp or Screw Connection

Amps	Jaw Opening	Overall Length	Wire Size AWG	Plating Material	Mfg. #	Part #	Pkg. Qty.
5	5/16"	1 17/32"	16-22	Zinc	BU-45	11A61530	1
5	5/16"	1 17/32"	16-22	Solid Copper	BU-45C	11A61531	1



Insulators: Purchase separately. Black/Part #11A61550, Red/Part #11A61551, Yellow/Part #11A61552, Green/Part #11A61553, Blue/Part #11A61554 and White/Part #11A61555.



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Avery Dennison
Burndy
Grote Accessories Canada
Hellermann Tyton
Panduit
Thomas & Betts
Tyco Electronics

TAPE

3M
Electro-tape Specialties
Hellermann Tyton
Loctite
Panduit

ELECTRICAL PROTECTION

3M
Burndy
Bussmann
Buyers Products Company
Cole Hersee
Ericson Manufacturing
Iboco Corporation
Littlefuse
Marinco
Panduit
Pollak
Wirthco

RELAYS / SWITCHES / SOLENOIDS

Cole Hersee
Bussmann
Littlefuse
Pollak

TOOLS

3M
Blazer Products
Burndy
Deutsch
Eclipse Enterprises
Fulton Industries
GM Tools
Hellermann
Ideal Industries
IlSCO
Klein Tool
Knipex
Metri-Pack Tools
Oetiker
Panduit
Rennsteig Tools
S&G Tool Aid
Sargent
Solder-It
Weather Pack Tools
Wezag Tools

WIRE

East Penn Manufacturing
Betts Industries
Tectran Manufacturing
Welding Cable

CLIPS / CLAMPS

Breeze / Norma
Burndy
Drossbach
Hellermann Tyton
Ideal Tridon
M M Newman
Mueller Electric Company
Panduit
Tectran Manufacturing

AUTOMOTIVE BULBS

Automotive Bulbs 12/24v
CEC Industries
Hella Incorporated
Sylvania
Wagner

SHRINK TUBING

3M
Burndy
Canusa
Hellermann Tyton
Ideal Industries
IlSCO

ABRASIVES / ADHESIVES

3M
Alfa Tools
Consolidated/Toledo Drill
Loctite
Shark Industries

TRUCK LIGHTING

Alt Enterprises
Arrow Safety
Betts Industries
Buyers Products Company
Federal Signal/Target Tech
Federal-Mogul Corporation
Grote
North American Signal
Optronics International
Peterson Mfg. Company
Preco
Star Headlight & Lantern
Superior Signals
Tecniq Incorporated
Truck-Lite Company
UB Lights/Martec
Unity Manufacturing
Vehicle Safety Manufacturing

TRAILER CONNECTORS

Buyers Products Company
Cole Hersee
Grote
Grote Accessories Canada
Haldex Brake Products
Pollak
Tectran Manufacturing
Truck-Lite Company

MISC.

Duracell Batteries
Durham Manufacturing
FTZ Industries
Flambeau Inc. / boxes
Hellermann Tyton / labels
Panduit / safety signage
Tectran Manufacturing / brass
WirthCo

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26awg-750mcm
Butt Splices, Rings and Forks
Flags and Quick Connects
High Temp Terminals
Shrink Terminals
Solder Shrink Terminals
Wire Nuts
Quick Splices
Ferrules
Compression Lugs
Terminal Adapters
Split bolts
Bullets
Knife Connectors
Copper Post Connectors
Flag Terminals 22awg-4/0
Aluminum Mechanical Lugs
Packard 56 Series
Packard Weather Pack
Packard Metri-Pack
Deutsch Terminals
Terminal Kits
Boxes & Racks

TOOLS

Crimpers 26awg - 250mcm
Crimping
Stripping & Cutting
Packard Tools
Deutsch Tools
Ferrule Tools
Picks & Removal Tools
Torches & Heat Guns
Testing Tools
Fuse Pullers

SHRINK TUBING

7 Colors Available
Standard 2:1
Adhesive Lined 3:1
Adhesive Lined 4:1
Heavy Duty Adhesive
Color Coded Adhesive
Economy Shrink / PVC
Shrink Tube Kits
Shrink Tape

TAPE

Electrical Tape
Duct Tape
3M Specialty Tapes
Safety Tapes
Bonding Tape
Shrink Tape

ELECTRICAL PROTECTION

Glass Fuses
Automotive Fuses
Industrial Fuses
Add-A-Fuse
Fuse Kits
Circuit Breakers
Fuse Holders
Fuse Panels
Fuse Blocks
Terminal Blocks
Relays
Switches
Solenoids
Neutral Bars
Power Distribution Blocks
Power Feeds
Pilot Lights

CLIPS / CLAMPS

Hose Clamps
Vinyl Coated Clamps
Nylon Clamps
Constant Torque Clamps
Cushion Clamps
Ratchet P Clamps
Cable Management
Spiral Wrap
Split Loom
Mesh Sleeving
Hose Protectors
Hose Organization
Hose Spacers
Wire Duct
Rubber Straps

FASTENERS

Hex Head Cap Screws
Hex Nuts
Flat Washers
Split-Lock Washers
Metric Screws/Nuts/Washers
Stainless Nuts & Washers
Machine Screws
Rivets
Abrasives
Loctite:
Threadlockers
Sticks
Epoxy
Super Glues
Gasketing
Lubricants
Navel Jelly

WIRE

GPT
GXL
Boat Cable
Bonded
Duplex
Trailer Cable
Welding Cable
Bonded Welding
MTW/THHN Wire
High Temp Wire/392°F-868°F
Mechanics Wire
SJO, SO, STO
Lamp Cord
Cord Ends
Jumper Cable Ends
Grommet Kit
Extensions Cords

CABLE TIES

Standard Ties
T&B Ties
Hellermann Tyton Ties
Panduit Ties
Specialty Ties
Edge Clip Ties
Cable Tie Tools
Cable Tie Mounts
Adhesive Mounts
Saddles

BATTERY MAINTENANCE

Copper & 90° Copper Lugs
Battery Terminals
Terminal Covers
Battery Adapters
Battery Cleaners
Battery Isolators
Through Wall Powerbolts
Anderson Connectors
Solder Slugs
Shrink Tube with Adhesive
Ground Straps
Jumpers Studs
Welding Cable
Crimpers and Cutters

PIPE, TUBE AND HOSE FITTINGS

Air Brake Fittings
Nylon/Copper/Composite
Air Brake Tubing
Air Brake Hose
Air Coils
Airline Hose Assemblies
Hose Fittings

TRUCK LIGHTING

Stop, Tail, Turn Lights
Marker & License Plate
Light Bar Strobes
ID Bars
Strobe Light Beacons
(Available strobe colors: red, white, blue, green & amber)
LED String Lights
Grill Lights
Snow Plow Lights
Work Lights
Back-Up Alarms
Drop Lights
Pigtails
Mirrors

AUTOMOTIVE BULBS

6 volt / 12 volt / 24 volt
Incandescent Bulbs
Rough Service Bulbs
Bulb Pigtails
Halogen Capsules
Sealed Beams
LED Headlights
Flashers / Relays
Pilots Lights
Cigarette Plug Adapters

TRAILER CONNECTORS

Trailer Plugs & Receptacles
Connector Adapters
Junction Boxes
Air & Power Cords
Air Brake Hoses
Tarping Plugs
Glad Hands & Grips
Pogo Sticks
Tender Kits
Plug Checker
Plug Cleaner

MISC.

Alligators Clips
Din Rail
Drill Bits
Ear Plugs & Earmuffs
Flashlights
Grommets
Labels
Mud Flaps
Razor Blades
Safety Signage
Solder
Work Gloves

Common Conductor Size Chart (Stranded Wire)			
Size	Conductor Size		
	Inches (mm) width		Circular Mil Area (mm ²) width
22 AWG	0.029	(0.74)	640 (0.324)
20 AWG	0.038	(0.97)	1020 (0.519)
18 AWG	0.048	(1.22)	1620 (0.823)
16 AWG	0.060	(1.52)	2580 (1.310)
14 AWG	0.073	(1.85)	4110 (2.080)
12 AWG	0.092	(2.34)	6530 (3.310)
10 AWG	0.116	(2.95)	10,380 (5.261)
8 AWG	0.146	(3.71)	16,510 (8.367)
6 AWG	0.184	(4.67)	26,240 (13.30)
4 AWG	0.232	(5.89)	41,740 (21.15)
2 AWG	0.292	(7.42)	66,360 (33.62)
1 AWG	0.332	(8.43)	83,690 (42.41)
1/0 AWG	0.373	(9.47)	105,600 (53.49)
2/0 AWG	0.418	(10.62)	133,100 (67.43)
3/0 AWG	0.470	(11.94)	167,800 (85.01)
4/0 AWG	0.528	(13.41)	211,600 (107.2)
250 MCM	0.575	(14.61)	250,000 (127)
300 MCM	0.630	(16.00)	300,000 (152)
350 MCM	0.681	(17.29)	350,000 (177)
400 MCM	0.728	(18.49)	400,000 (203)
500 MCM	0.813	(20.65)	500,000 (253)
600 MCM	0.893	(22.68)	600,000 (304)
750 MCM	0.998	(25.35)	750,000 (380)
800 MCM	1.031	(26.19)	800,000 (405)
1000 MCM	1.152	(29.26)	1,000,000 (507)

Common Stud Sizes		
Standard Stud Size US (metric)	Stud Diameter Inches (mm)	Terminal Hole Diameter Inches (mm)
#2 (M2)	0.086 (2.18)	0.090 (2.29)
#4 (M2.5)	0.112 (2.84)	0.118 (3.00)
#5 (M3)	0.125 (3.18)	0.127 (3.23)
#6 (M3.5)	0.138 (3.51)	0.146 (3.71)
#8 (M4)	0.164 (4.17)	0.173 (4.39)
#10 (M5)	0.190 (4.83)	0.198 (5.03)
1/4" (M6)	0.250 (6.35)	0.270 (6.86)
5/18" (M8)	0.312 (7.92)	0.330 (8.38)
3/8" (M10)	0.375 (9.53)	0.385 (9.78)
1/2" (M12)	0.500 (12.7)	0.520 (13.21)
5/8" (M16)	0.625 (15.88)	0.650 (16.51)
3/4" (M18)	0.750 (19.05)	0.810 (20.57)

Primary Wire Ampacity / 12 Volt Circuits					
Amps	Distance				
	10'	20'	30'	50'	100'
2	18 Ga.	18 Ga.	18 Ga.	18 Ga.	16 Ga.
6	18 Ga.	18 Ga.	16 Ga.	14 Ga.	12 Ga.
12	18 Ga.	16 Ga.	14 Ga.	12 Ga.	8 Ga.
20	16 Ga.	12 Ga.	12 Ga.	10 Ga.	6 Ga.
36	14 Ga.	10 Ga.	8 Ga.	8 Ga.	4 Ga.
40	12 Ga.	10 Ga.	8 Ga.	6 Ga.	2 Ga.
50	12 Ga.	10 Ga.	8 Ga.	6 Ga.	2 Ga.
100	10 Ga.	6 Ga.	4 Ga.	2 Ga.	1/0 Ga.
150	8 Ga.	4 Ga.	2 Ga.	1 Ga.	2/0 Ga.
200	6 Ga.	4 Ga.	2 Ga.	1/0 Ga.	4/0 Ga.

Welding Cable Ampacity					
Amps	Distance				
	50'	75'	100'	125'	150'
100	4	4	2	2	1
150	3	2	1	1/0	2/0
200	2	1	1/0	2/0	3/0
250	1	1/0	2/0	3/0	4/0
300	1	2/0	3/0	4/0	
350	1/0	3/0	4/0		
400	2/0	3/0	4/0		
450	2/0	4/0			
500	3/0	4/0			
550	4/0				
600	4/0				

PRODUCT CATALOG 8



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